

UNIVERSITY PROGRAM MANAGEMENT INFORMATION SYSTEM

FY 2001

Prepared by:

**Office of Human Resources and Education
Education Division/FE**

This publication (NASA/TM—2002-211518) is for sale by:

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IMPORTANT NOTICE

This report is compiled primarily from information obtained from two internal NASA sources:

1. "CASE Report on Support of Colleges and Universities" (NASA Form 1356).
2. "Individual Procurement Action Report" (NASA Form 507).

Therefore, other sources should be used for completing Forms 507 and 1356.

Information in this publication is reviewed and revised for accuracy. Should any differences exist between publications, the latest edition should take precedence over earlier ones.

NASA's UNIVERSITY PROGRAM

ACTIVE PROJECTS

FISCAL YEAR 2001

Gary Gans, Project Manager

**National Aeronautics and Space Administration
Office of Human Resources and Education
Education Division/FE
Washington, DC 20546-0001**

This publication was prepared by the NASA Center for Aerospace Information,
7121 Standard Drive, Hanover, MD 21076-1320, 301-621-0390.

FOREWORD

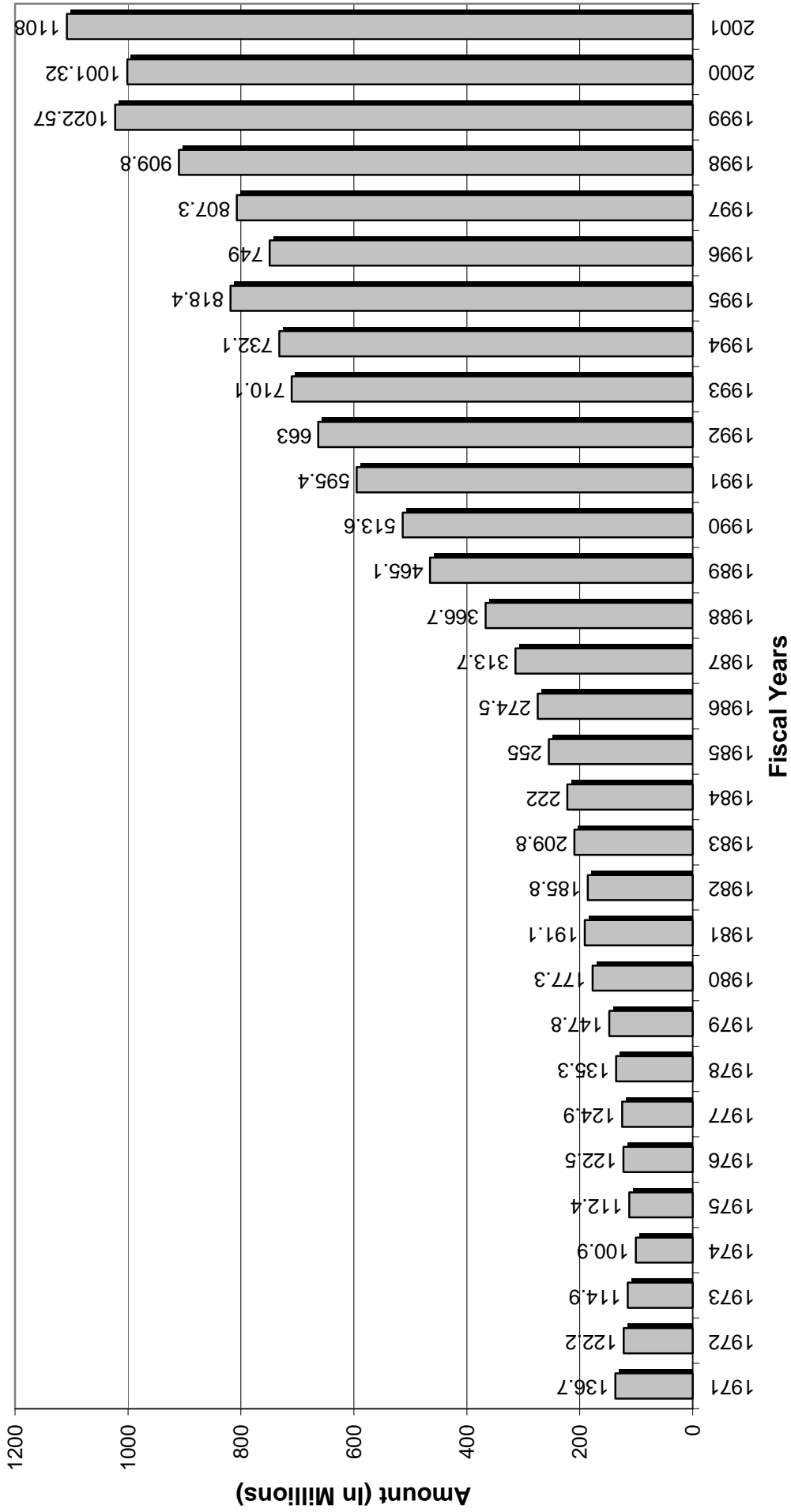
As basic policy, NASA believes that colleges and universities should be encouraged to participate in the nation's space and aeronautics program to the maximum extent practicable. Indeed, universities are considered as partners with government and industry in the nation's aerospace program. NASA's objective is to have them bring their scientific, engineering, and social research competence to bear on aerospace problems and on the broader social, economic, and international implications of NASA's technical and scientific programs. It is expected that, in so doing, universities will strengthen both their research and their educational capabilities to contribute more effectively to the national well-being.

This annual report is one means of documenting the NASA-university relationship, frequently denoted, collectively, as NASA's University Program. This report is consistent with agency accounting records, as the data is obtained from NASA's Financial and Contractual Status (FACS) System, operated by the Financial Management Division and the Procurement Office. However, in accordance with interagency agreements, the orientation differs from that required for financial or procurement purposes. Any apparent discrepancies between this report and other NASA procurement or financial reports stem from the selection criteria for the data.*

This report was prepared by the Education Division/FE, Office of Human Resources and Education.

* Agreements which meet active criteria definition and have deobligations may result in agreements having negative obligations in the body of this publication.

NASA Obligations to Universities Fiscal Years 1971-2001



NOTE: Excludes awards to California Institute of Technology for operation of the Jet Propulsion Laboratory. This chart includes deobligations.

FY 1971 includes \$15.0M in awards to Draper Lab.

FY 1973 includes \$5.2M in awards to Draper Lab.

FY 1974 Draper Lab status changed from "university" to "nonprofit."

FY 1972 includes \$5.7M in awards to Draper Lab.

**FIFTY EDUCATIONAL INSTITUTIONS
LISTED ACCORDING TO TOTAL OBLIGATIONS – FY 2001**

TOTALS*		OBLIGATIONS	PERCENT
		1,108,005,020	100.00
1	Johns Hopkins University	129,967,230	11.73
2	Stanford University.....	54,331,156	4.90
3	University of Colorado – Boulder	44,527,133	4.02
4	University of Maryland – College Park.....	41,925,149	3.78
5	Massachusetts Institute of Technology.....	31,363,846	2.83
6	Baylor College of Medicine	28,374,818	2.56
7	University of Alabama – Huntsville	28,288,990	2.55
8	California Institute of Technology	26,538,386	2.40
9	University of California – Berkeley	25,130,283	2.27
10	Pennsylvania State University – University Park	17,730,315	1.60
11	New Mexico State University – Las Cruces.....	16,833,405	1.52
12	University of Arizona	15,774,105	1.42
13	University of Missouri – Columbia	15,725,913	1.42
14	University of Alaska – Fairbanks	14,287,061	1.29
15	Columbia University	14,145,037	1.28
16	University of Maryland – Baltimore County.....	13,649,552	1.23
17	University of Hawaii – Honolulu	13,324,123	1.20
18	University of Alabama – Birmingham.....	12,884,176	1.16
19	University of California – San Diego	12,694,644	1.15
20	University of Wisconsin – Madison	12,541,084	1.13
21	University of Texas – Austin	11,193,695	1.01
22	University of California – Los Angeles	9,761,626	0.88
23	University of Washington	9,613,830	0.87
24	Wheeling Jesuit University.....	9,393,640	0.85
25	Montana State University.....	9,074,658	0.82
26	University of Houston – Clear Lake	9,042,491	0.82
27	Georgia Institute of Technology	8,533,057	0.77
28	University of New Hampshire – Durham.....	8,273,330	0.75
29	Mississippi State University	8,106,152	0.73
30	Carnegie-Mellon University.....	8,098,657	0.73
31	University of Michigan – Ann Arbor	8,072,957	0.73
32	George Mason University	7,824,354	0.71
33	Oklahoma State University	7,535,275	0.68
34	University of California – Santa Barbara.....	7,390,397	0.67
35	Texas A&M University – College Station	7,324,198	0.66
36	Old Dominion University	7,188,074	0.65
37	University of New Mexico – Albuquerque	6,887,204	0.62
38	Hampton University.....	6,591,090	0.59
39	San Jose State University.....	6,460,202	0.58
40	Harvard University	6,458,917	0.58
41	Oregon State University.....	6,420,974	0.58
42	Utah State University	6,234,239	0.56
43	University of California – Irvine	6,133,406	0.55
44	University of Houston – Houston	5,996,646	0.54
45	Cornell University.....	5,929,481	0.54
46	University of Miami.....	5,507,678	0.50
47	University of Illinois – Urbana	5,261,266	0.47
48	Case Western Reserve.....	5,184,079	0.47
49	University of Minnesota – Twin Cities.....	5,172,987	0.47
50	Colorado State University.....	4,971,167	0.45
	Other Colleges & Universities**	318,332,887	28.73

* Excludes awards to California Institute of Technology for operation of the Jet Propulsion Laboratory.

Totals include de-obligations for this chart.

** Includes both foreign and domestic universities and colleges.

**STATES AND U.S. TERRITORIES BY OBLIGATIONS
FISCAL YEAR 2001 (October 1, 2000 through September 30, 2001)**

	STATE	OBLIGATIONS (WHOLE DOLLARS)	PERCENT
TOTALS*		1,107,563,141	100.00
1	Maryland	191,365,787	17.28
2	California	178,347,204	16.10
3	Texas	80,982,535	7.31
4	Massachusetts	52,441,476	4.73
5	Alabama	51,922,483	4.69
6	Colorado	50,896,932	4.60
7	New York	37,650,450	3.40
8	Virginia	34,523,643	3.12
9	Pennsylvania.....	32,357,715	2.92
10	Ohio.....	26,296,437	2.37
11	New Mexico	25,508,973	2.30
12	Florida	25,206,039	2.28
13	Arizona	21,686,898	1.96
14	Missouri.....	21,440,255	1.94
15	Georgia	18,670,276	1.69
16	West Virginia.....	14,734,682	1.33
17	Alaska	14,287,061	1.29
18	Mississippi.....	14,125,119	1.28
19	Montana	13,409,751	1.21
20	Wisconsin.....	13,340,450	1.20
21	Hawaii	13,323,984	1.20
22	Michigan.....	12,421,719	1.12
23	Illinois	12,105,363	1.09
24	New Jersey	11,000,768	0.99
25	Washington	10,689,480	0.97
26	New Hampshire	9,784,585	0.88
27	North Carolina.....	9,756,602	0.88
28	Oklahoma.....	9,458,473	0.85
29	Utah.....	8,878,640	0.80
30	District of Columbia.....	8,120,950	0.73
31	Tennessee	8,062,375	0.73
32	Oregon	7,907,481	0.71
33	Iowa.....	7,079,881	0.64
34	Louisiana.....	6,911,111	0.62
35	Indiana	6,158,303	0.56
36	South Carolina	5,308,808	0.48
37	Minnesota	5,227,958	0.47
38	Kansas	4,962,967	0.45
39	Connecticut.....	4,726,271	0.43
40	North Dakota.....	4,015,975	0.36
41	Puerto Rico	3,811,968	0.34
42	Rhode Island.....	3,770,546	0.34
43	Idaho	3,303,087	0.30
44	Nebraska.....	2,507,037	0.23
45	Kentucky	2,328,954	0.21
46	Nevada.....	1,899,440	0.17
47	South Dakota	1,412,937	0.13
48	Delaware	1,297,051	0.12
49	Maine	853,644	0.08
50	Vermont	449,324	0.04
51	Arkansas	420,285	0.04
52	Wyoming	413,008	0.04

* Starting in FY 1993, Active Actions with de-obligations will be reported in this chart.

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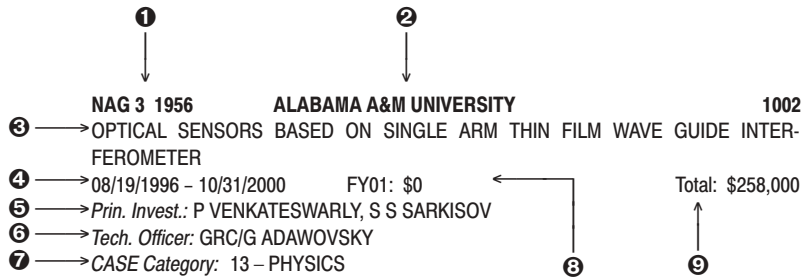
This report includes data on projects active during Fiscal Year 2001.

Alabama	1	Nebraska	340
Alaska	16	Nevada	341
Arizona	19	New Hampshire	343
Arkansas	40	New Jersey	350
California	41	New Mexico	360
Colorado	119	New York	367
Connecticut	144	North Carolina	394
Delaware	149	North Dakota	404
District of Columbia	152	Ohio	405
Florida	161	Oklahoma	428
Georgia	180	Oregon	430
Hawaii	191	Pennsylvania	435
Idaho	199	Rhode Island	457
Illinois	200	South Carolina	461
Indiana	214	South Dakota	466
Iowa	222	Tennessee	467
Kansas	227	Texas	474
Kentucky	230	Utah	501
Louisiana	233	Vermont	506
Maine	238	Virginia	507
Maryland	239	Washington	533
Massachusetts	276	West Virginia	544
Michigan	306	Wisconsin	546
Minnesota	320	Wyoming	555
Mississippi	326	Commonwealth of Puerto Rico	556
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USER'S GUIDE

The University Program Report provides current information and related statistics for each grant/contract/cooperative agreement active during the report period. The following guidance is provided as an aid to the reader in readily locating material of interest and in optimizing the use of this document.

I. Typical Citation



KEY

1. Agreement number*
2. Institution name
3. Brief work description
4. Approximate period of performance
5. Principal investigator(s) at the educational institution
6. NASA Technical Officer(s) and organizational location
7. CASE Field of Science and Engineering code and name
8. Amount (if any) actually provided during the indicated fiscal year
9. Total amount actually provided during the indicated period of performance

* Uniquely identifies project. Prefixes denote type of instrument as follows:

Grants: NAG, NAGW, NGF, NGT, NGL, NGR, NSG

Cooperative Agreements: NCC, NCCW

Contracts: DEN, NAS, NASR, NASW, NSR

Space Act Agreements: NCA

II. NASA Installations

NASA installations are included in the citation as abbreviations (item 7). The following listing of installations will be useful to those desiring further information on specific projects.

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SSC

A full listing of the suffix letters and information on NASA's organizational structure may be found in the NASA Headquarters Telephone Directory. The directory is for sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

III. CASE

The National Science Foundation (NSF) operates a government-wide system originally designed by the Committee on Academic Science and Engineering (CASE) of the Federal Council for Science and Technology. Participating agencies report annually to NSF, which in turn issues the statistical report, Federal Science and Engineering Support to Universities, Colleges and Nonprofit Institutions.

Since its inception, this survey system has been the sole source of data on Federal funding to individual institutions for Science and Engineering (S&E) activities.

IV. Cross-Index

The cross-indexed Appendix provides rapid access to all projects in a particular area of endeavor, and is also easily used to determine the institutions and principal investigators conducting NASA projects.

ALABAMA

NAG 2 1130 **ALABAMA A&M UNIV** **1000**
 IRON-ION INDUCED LOW DOSE MUTAGENESIS
 06/11/1997 – 06/30/2002 FY01: \$0 Total: \$359,883
Prin. Invest.: P G KALE
Tech. Officer: ARC/B J COLLINS, ARC/P X CALLAHAN
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 2 1175 **ALABAMA A&M UNIV** **1001**
 NEURAL NETWORK ANALYSIS OF LEAF MULTISPECTRAL REFLECTANCE
 FOR DETECTION & DISCRIMINATION OF
 02/03/1998 – 04/30/2002 FY01: \$0 Total: \$299,752
Prin. Invest.: C A BEYL
Tech. Officer: ARC/M H KLISS, ARC/G S LEE
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NAG 3 1956 **ALABAMA A&M UNIV** **1002**
 OPTICAL SENSORS BASED ON SINGLE ARM THIN FILM WAVE GUIDE INTERFEROMETER
 08/19/1996 – 10/31/2000 FY01: \$0 Total: \$258,000
Prin. Invest.: P VENKATESWARLY, S S SARKISOV
Tech. Officer: GRC/G ADAVOVSKY
CASE Category: 13 – PHYSICS

NAG 3 2302 **ALABAMA A&M UNIV** **1003**
 DEVELOPMENT OF IMPROVED HIGH TEMPERATURE SILICON CARBIDE SENSORS
 12/13/1999 – 11/02/2001 FY01: \$99,568 Total: \$199,136
Prin. Invest.: D ILA, M A GEORGE
Tech. Officer: GRC/D J LARKIN, GRC/R LAWRENCE
CASE Category: 45 – ELECTRICAL ENGR

NAG 5 9885 **ALABAMA A&M UNIV** **1004**
 STUDENT REFLECTION GPS EXPERIMENT
 08/24/2000 – 02/14/2002 FY01: \$0 Total: \$100,000
Prin. Invest.: A MANU
Tech. Officer: GSFC/C PERSON
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10202 **ALABAMA A&M UNIV** **1005**
 SPACE SCIENCE EDUCATION & THE SUN-EARTH CONNECTION
 12/22/2000 – 12/31/2001 FY01: \$225,000 Total: \$225,000
Prin. Invest.: A TAN
Tech. Officer: GSFC/P SAKIMOTO
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 10721 **ALABAMA A&M UNIV** **1006**
 CENTER FOR HYDROLOGY, SOIL CLIMATOLOGY, AND REMOTE SENSING (HSCARS): CONTINUATION OF A GROUP 2 MINOR
 04/20/2001 – 04/14/2002 FY01: \$759,171 Total: \$759,171
Prin. Invest.: T COLEMAN
Tech. Officer: GSFC/M WEI
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 8 1335 **ALABAMA A&M UNIV** **1007**
 R/S "AN INNOVATIVE APPROACH FOR VORTEX TUBE FLOW ANALYSIS AND APPLICATION IN FILM COOLING"
 03/26/1997 – 05/25/2001 FY01: \$0 Total: \$300,000
Prin. Invest.: K HE
Tech. Officer: MSFC/A CHOW
CASE Category: 13 – PHYSICS

NAG 8 1390 **ALABAMA A&M UNIV** **1008**
 R/S "BULK AND THIN FILM ORGANIC NONLINEAR OPTICAL CRYSTALS FOR DEVICES AND MICROGRAVITY PROCESSING"
 07/23/1997 – 07/22/2001 FY01: \$0 Total: \$200,000
Prin. Invest.: M D AGGARWAL
Tech. Officer: MSFC/D FRAZIER, MSFC/W J LOVE
CASE Category: 13 – PHYSICS

NAG 8 1400 **ALABAMA A&M UNIV** **1009**
 EFFECT OF DOPANTS ON THE GROWTH & PROPERTIES OF MIXED ORGANIC CRYSTALS FOR NON-LINEAR OPTICAL APPS
 09/19/1997 – 12/29/2000 FY01: -\$9,548 Total: \$200,197
Prin. Invest.: B PENN
Tech. Officer: MSFC/B PENN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1497 **ALABAMA A&M UNIV** **1010**
 COMPUTER MODEL OF THE TVC ELECTROMECHANICAL ACTUATOR
 06/10/1999 – 05/31/2002 FY01: \$87,709 Total: \$252,865
Prin. Invest.: A BOND
Tech. Officer: MSFC/J MONTENEGRO
CASE Category: 45 – ELECTRICAL ENGR

NAG 8 1498 **ALABAMA A&M UNIV** **1011**
 ELECTRO-OPTIC MODULATOR BASED ON ORGANIC PLANAR WAVEGUIDE INTEGRATED WITH PRISM COUPLER.
 06/24/1999 – 05/30/2002 FY01: \$0 Total: \$240,000
Prin. Invest.: S SARKISOV
Tech. Officer: MSFC/B PENN
CASE Category: 13 – PHYSICS

NAG 8 1541 **ALABAMA A&M UNIV** **1012**
 CYTOGENETIC INVESTIGATIONS INTO RADIOSENSITIVITY
 07/17/1998 – 07/16/2002 FY01: \$0 Total: \$204,804
Prin. Invest.: D KALE
Tech. Officer: MSFC/R C RICHMOND
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 8 1560 **ALABAMA A&M UNIV** **1013**
 MATHEMATICAL SAFETY ANALYSIS
 09/30/1999 – 09/30/2002 FY01: \$79,956 Total: \$199,912
Prin. Invest.: M A ELSHAMY
Tech. Officer: MSFC/D O FRAZIER
CASE Category: 21 – MATHEMATICS

NAG 8 1614 **ALABAMA A&M UNIV** **1014**
 RESEARCH ENTITLED: INVESTIGATION OF STRUCTURAL PROPERTIES OF COMPOSITE SMART MATERIALS .
 09/09/1999 – 10/15/2002 FY01: \$98,582 Total: \$197,216
Prin. Invest.: A SHARMA
Tech. Officer: MSFC/G MYERS
CASE Category: 46 – MECHANICAL ENGR

NAG 8 1620 **ALABAMA A&M UNIV** **1015**
 FASAT REACTION SPATIAL-TEMPORAL LIGHT MODULATORS FOR OPTICAL RECOGNITION AND IMAGE PROCESSING.
 08/25/1999 – 08/25/2001 FY01: \$0 Total: \$186,392
Prin. Invest.: N KUKHATAREV, T KUHTEREVA
Tech. Officer: MSFC/B G PENN
CASE Category: 13 – PHYSICS

NAG 8 1623 **ALABAMA A&M UNIV** **1016**
 INNOVATIVE EXPLORATION OF SEMIORGANIC NONLINEAR OPTICAL
 MATERIALS FOR OPTICAL PROCESSING APPLIC.
 09/24/1999 – 09/23/2002 FY01: \$80,000 Total: \$200,000
Prin. Invest.: M D AGGARWAL
Tech. Officer: MSFC/B PENN
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 8 1624 **ALABAMA A&M UNIV** **1017**
 INVESTIGATION OF MICROBIAL LIFE IN PLAR ICE AND PERMA FROST
 08/13/1999 – 09/14/2001 FY01: \$0 Total: \$100,000
Prin. Invest.: M G TADROS
Tech. Officer: MSFC/R HOOVER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 8 1626 **ALABAMA A&M UNIV** **1018**
 RESEARCH ENTITLED: "HYPERSONIC NON-EQUILIBRIUM FLOWS WITH
 LOW REYNOLDS EFFECT"
 09/16/1999 – 05/31/2002 FY01: \$99,775 Total: \$199,057
Prin. Invest.: G S LJAW
Tech. Officer: MSFC/L CHOU, MSFC/W J LOVE
CASE Category: 41 – AERONAUTICAL ENGR

NAG 8 1642 **ALABAMA A&M UNIV** **1019**
 HIGH SCHOOL/HIGH-TECH CAREER DEVELOPMENT PROGRAM IN MATH-
 EMATICS, SCIENCE ENGINEERING, ADN TECH.
 09/30/1999 – 09/29/2002 FY01: \$106,361 Total: \$195,360
Prin. Invest.: B CADY
Tech. Officer: MSFC/W LOVE
CASE Category: 21 – MATHEMATICS

NAG 8 1643 **ALABAMA A&M UNIV** **1020**
 ENHANCEMENT OF STUDENTS IN SCIENCE, ENGINEERING, AND MATH-
 EMATICS.
 09/27/1999 – 03/26/2002 FY01: \$76,273 Total: \$195,592
Prin. Invest.: E TEMPLE
Tech. Officer: MSFC/J DOWDY
CASE Category: 21 – MATHEMATICS

NAG 8 1655 **ALABAMA A&M UNIV** **1021**
 PRODUCTION OF ULTRA-LIGHT MIRRORS
 03/20/2000 – 03/19/2003 FY01: \$0 Total: \$213,819
Prin. Invest.: D ILA
Tech. Officer: MSFC/W LOVE
CASE Category: 49 – ENGINEERING, OTHER

NAG 8 1800 **ALABAMA A&M UNIV** **1022**
 COMPUTATIONAL ANALYSIS OF ION TRAJECTORY IN PULSA MAGNETIC
 FLUX COMPRESSION REACTION
 06/07/2001 – 10/18/2001 FY01: \$29,719 Total: \$29,719
Prin. Invest.: E W ROTHE, G P RECK
Tech. Officer: GRC/R C ANDERSON
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1804 **ALABAMA A&M UNIV** **1023**
 RESEARCH, "NUMERICAL PREDUCATION OF DRAG OF AJAX TYPE
 VEHICLES
 05/17/2001 – 03/14/2005 FY01: \$60,000 Total: \$60,000
Prin. Invest.: Z T DENG
Tech. Officer: MSFC/A CHOW
CASE Category: 46 – MECHANICAL ENGR

NAG 8 1808 **ALABAMA A&M UNIV** **1024**
 RESEARCH, "WEAKLY IONIZED GAS CHARACTERISTICS AND EFFECT ON
 THE SHOCK WAVE STRUCTURE.
 05/02/2001 – 04/15/2004 FY01: \$95,000 Total: \$95,000
Prin. Invest.: K X HO
Tech. Officer: MSFC/A CHOW
CASE Category: 46 – MECHANICAL ENGR

NAG 9 1095 **ALABAMA A&M UNIV** **1025**
 MICROBIAL VIABILITY AND BIOCIDES EFFICIENCY STUDIES FOR THE INTER
 SPACE STATION
 03/31/1999 – 03/31/2002 FY01: \$81,916 Total: \$281,916
Prin. Invest.: M TADROS
Tech. Officer: JSC/D PIERSON, JSC/L AREMNDARIZ
CASE Category: 13 – PHYSICS

NAG10 245 **ALABAMA A&M UNIV** **1026**
 MISSION PLANNING AND RISK MANAGEMENT
 04/06/1998 – 05/15/2002 FY01: \$0 Total: \$292,002
Prin. Invest.: M ELSHAMY
Tech. Officer: KSC/R TILLEY
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NCC 3 736 **ALABAMA A&M UNIV** **1027**
 ALL OPTICAL MICRO MOTORS BASED ON MOVING GRATING IN PHOTO
 SENSITIVE MEDIA
 09/30/1999 – 09/30/2002 FY01: \$93,564 Total: \$187,128
Prin. Invest.: D CURLEY
Tech. Officer: GRC/G ADAMOVSKY
CASE Category: 13 – PHYSICS

NCC 8 140 **ALABAMA A&M UNIV** **1028**
 R/S "CENTER FOR HYDROLOGY, SOIL CLIMATOLOGY AND REMOTE
 SENSING (HSCARS)"
 07/21/1997 – 12/31/2000 FY01: \$440,747 Total: \$3,853,109
Prin. Invest.: T L COLEMAN
Tech. Officer: MSFC/R ARNOLD
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 8 211 **ALABAMA A&M UNIV** **1029**
 STUDEN LAUNCH INITIATIVE
 03/23/2001 – 10/31/2001 FY01: \$49,997 Total: \$49,997
Prin. Invest.: R B LAL, G SHARMA, M MANMOHAN
Tech. Officer: MSFC/J R PRUITT
CASE Category: 41 – AERONAUTICAL ENGR

NGT 8 52902 **ALABAMA A&M UNIV** **1030**
 FABRICATION & OPTICAL AND ELECTRICAL CHARACTERIZA- TION OF THE
 DIFFRACTIVE HOLOGRAPHIC OPTICAL ELEMN
 05/25/2001 – 06/30/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: J C WANG
Tech. Officer: MSFC/S NASH-STEVENSON
CASE Category: 13 – PHYSICS

NAG 3 2120 **AUBURN UNIV** **1031**
 TIAL JOINING SCIENCE AND TECHNOLOGY FOR ADVANCED A EROPRO-
 PULSION SYSTEM
 02/11/1998 – 01/13/2002 FY01: \$0 Total: \$238,491
Prin. Invest.: W F GALE, J W FERGUS
Tech. Officer: GRC/R D NOEBE, GRC/M V NATHAL
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 2597 **AUBURN UNIV** **1032**
 DAMPING AND CONTROL OF MULTI-DIRECTION COMPOSITE FLYWHEELS
 04/27/2001 – 04/05/2003 FY01: \$61,044 Total: \$61,044
Prin. Invest.: D GOWAYED
Tech. Officer: GRC/J TRUDELL
CASE Category: 46 – MECHANICAL ENGR

NAG 3 2639 **AUBURN UNIV** **1033**
 A STUDY OF THE EFFECTS OF GAMMA AND CHARGED PARTICLE RADIATION ON SILICON CARBIDE DIODES AND METAL-
 06/22/2001 – 04/30/2002 FY01: \$87,203 Total: \$87,203
Prin. Invest.: J R WILLIAMS
Tech. Officer: GRC/G E SCHWARZ
CASE Category: 13 – PHYSICS

NAG 5 8081 **AUBURN UNIV** **1034**
 MAGNETIC RECONNECTION AND PARTICLE PRECIPITATION A CROSS THE MAGNETOPAUSE
 01/21/1999 – 02/28/2002 FY01: \$60,593 Total: \$169,914
Prin. Invest.: D LIN
Tech. Officer: GSFC/D EVANS/5
CASE Category: 11 – ASTRONOMY

NAG 5 11121 **AUBURN UNIV** **1035**
 RADIATION EFFECTS IN SIGE HBT BICMOS TECHNOLOGY
 07/13/2001 – 07/31/2002 FY01: \$65,000 Total: \$65,000
Prin. Invest.: J D CRESSLER
Tech. Officer: GSFC/R REED
CASE Category: 13 – PHYSICS

NAG 8 1617 **AUBURN UNIV** **1036**
 A SYSTEM STUDY FOR POWER WITHOUT WIRES UNDER NRA8– 23, SPACE SOLAR POWER
 07/06/1999 – 09/30/2000 FY01: -\$27,118 Total: \$258,921
Prin. Invest.: H BRANDHORST, JR.
Tech. Officer: MSFC/J HOWELL
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 8 1717 **AUBURN UNIV** **1037**
 HIGH POWER ELECTRIC PROPULSION RESEARCH
 04/25/2000 – 02/05/2001 FY01: \$10,000 Total: \$69,679
Prin. Invest.: I HRBUD
Tech. Officer: MSFC/C SHAFER
CASE Category: 45 – ELECTRICAL ENGR

NAG 8 1728 **AUBURN UNIV** **1038**
 "GROUND SYSTEM-RECTENNA-SATELLITE INTERFACE ISSUES FOR SPACE SOLAR POW SYSTEMS"
 06/09/2000 – 10/31/2000 FY01: \$0 Total: \$54,474
Prin. Invest.: S A MERRYMAN, NONE
Tech. Officer: MSFC/J HOWELL
CASE Category: 49 – ENGINEERING, OTHER

NAG 8 1806 **AUBURN UNIV** **1039**
 RESEARCH, "X-33 ADVANCED GUIDANCE AND CONTROL PROJECT: SOFTWARE REFINEMENTS FOR VERIFICATION..."
 04/25/2001 – 03/15/2002 FY01: \$32,188 Total: \$32,188
Prin. Invest.: A S HODEL
Tech. Officer: MSFC/D R KRUP
CASE Category: 42 – ASTRONAUTICAL ENGR

NAS 3 99200 **AUBURN UNIV** **1040**
 EFFECTS OF HYPERVELOCITY IMPACTS ON HIGH VOLTAGE SOLAR ARRAYS
 09/17/1999 – 10/31/2000 FY01: \$0 Total: \$124,781
Prin. Invest.: H W BRANDHORST
Tech. Officer: GRC/P J GEORGE
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAS 8 98249 **AUBURN UNIV** **1041**
 DEVELOPMENT AND PACKAGING OF SUPERCAPACITORS FOR LAUNCH VEHICLE APPLICATIONS
 09/10/1998 – 07/06/2002 FY01: \$0 Total: \$523,572
Prin. Invest.: S A MERRYMAN, Z CHEN, NONE
Tech. Officer: MSFC/D K HALL, MSFC/T M EDGE
CASE Category: 45 – ELECTRICAL ENGR

NCC 3 511 **AUBURN UNIV** **1042**
 CENTER FOR THE COMMERCIAL DEVELOPMENT OF SPACE: SPACE POWER & ADVANCED ELECTRONICS
 11/01/1996 – 10/31/2001 FY01: \$1,125,501 Total: \$4,620,501
Prin. Invest.: D W BRANDHORST, JR., M F ROSE
Tech. Officer: GRC/J E DUDENHOEFER, GRC/R J SOVIE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NCC 3 864 **AUBURN UNIV** **1043**
 COUPLED RADIATION/THERMOPHORESUS EFFECTS IN SOOTIN G MICROGRAVITY FLAMES
 02/20/2001 – 12/20/2004 FY01: \$49,167 Total: \$49,167
Prin. Invest.: D W MACKOWSKI
Tech. Officer: GRC/K R SACKSTEDER
CASE Category: 46 – MECHANICAL ENGR

NCC 5 333 **AUBURN UNIV** **1044**
 SOIL ORGANIC MATTER FLUXES IN AMAZONIAN FORESTS: NATURAL VS INTENSIVELY MANAGED SYSTEMS
 06/17/1998 – 12/31/2001 FY01: \$51,438 Total: \$225,482
Prin. Invest.: K MCNABB
Tech. Officer: GSFC/D DEERING
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 5 459 **AUBURN UNIV** **1045**
 CENTER FOR SPACE POWER AND ADVANCED ELECTRONICS
 03/01/2000 – 01/31/2002 FY01: \$0 Total: \$1,030,000
Prin. Invest.: H W BRANDHORST
Tech. Officer: GSFC/D BRUNNER
CASE Category: 11 – ASTRONOMY

NCC 8 128 **AUBURN UNIV** **1046**
 FOR RESEARCH: "AUBURN COMMERCIAL SPACE CENTER FOR THE SOLIDIFICATION DESIGN/CASTNET PROGRAM"
 01/28/1997 – 10/31/2001 FY01: \$2,400,000 Total: \$8,322,924
Prin. Invest.: R A OVERFELT
Tech. Officer: MSFC/S LAMBING
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 8 151 **AUBURN UNIV** **1047**
 GLOBAL CHANGE R/S EDUCATION & OUTREACH RELATED TO THE EARTH'S
 SURFACE RESOURCES AND HYDROLOGIC CYCLE
 06/30/1998 - 03/31/2003 FY01: \$90,158 Total: \$493,343
Prin. Invest.: U HATCH
Tech. Officer: MSFC/J R ARNOLD
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 1 52205 **AUBURN UNIV** **1048**
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
 09/04/1998 - 06/30/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: M L WALLER, T H SHUMPERT, S M RAO
Tech. Officer: LARC/F B BECK, LARC/M C BAILEY
CASE Category: 45 - ELECTRICAL ENGR

NGT 8 52851 **AUBURN UNIV** **1049**
 ADVANCED METHOD FOR VIBRATION ANALYSIS OF HIGH SPEED ROTOR
 SYSTEMS
 07/21/1998 - 12/31/2001 FY01: \$0 Total: \$60,500
Prin. Invest.: G T FLFLOWERS
Tech. Officer: MSFC/J F DOWDY
CASE Category: 46 - MECHANICAL ENGR

NGT 8 52870 **AUBURN UNIV** **1050**
 OPTIMAL APPLICATION OF COMBUSTION TEST DATA TO FLAMABILITY
 ASSESSMENT IN GASEOUS OXYGEN
 07/27/1998 - 08/15/2002 FY01: \$0 Total: \$66,000
Prin. Invest.: P D JONES
Tech. Officer: MSFC/J F DOWDY
CASE Category: 46 - MECHANICAL ENGR

NGT 8 52904 **AUBURN UNIV** **1051**
 CLOSED LOOP ROBUST CONTROL ALLOCATION FOR AEROSPACE VEHICLE
 RELIABLE STABILITY AND PERFORMANCE
 05/25/2001 - 06/30/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: A S HODEL
Tech. Officer: MSFC/S NASH-STEVENSON
CASE Category: 45 - ELECTRICAL ENGR

NAG 8 1280 **BIRMINGHAM SOUTHERN COLLEGE** **1052**
 JOVE RESEARCH
 01/21/1997 - 08/31/2000 FY01: -\$2,321 Total: \$22,679
Prin. Invest.: K B BACHMANN
Tech. Officer: MSFC/J F DOWDY, MSFC/J R PRUITT
CASE Category: 13 - PHYSICS

NAG 8 1600 **OAKWOOD COLLEGE** **1053**
 R/S THE DEVELOPMENT, ASSESSMENT, VALIDATION AND ENHANCEMENT
 (DAVE) OF VIRTUAL REALITY FOR HUMAN...
 01/22/1999 - 01/20/2000 FY01: \$0 Total: \$93,168
Prin. Invest.: K BENN-MARSHALL
Tech. Officer: MSFC/G HAMILTON
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1653 **OAKWOOD COLLEGE** **1054**
 MINORITY STUDENT DEVELOPMENT PROGRAM IN SCIENCE & ENGI-
 NEERING
 02/03/2000 - 02/04/2003 FY01: \$100,000 Total: \$200,000
Prin. Invest.: E GWEBU
Tech. Officer: MSFC/W LOVE/A C BEAM
CASE Category: 49 - ENGINEERING, OTHER

NAG 8 1734 **OAKWOOD COLLEGE** **1055**
 DEVELOPMENT OF ULTRA-LIGHT NORMAL INCIDENCE MIRROR ELEC-
 TORCHEMICAL ASPECTS
 08/18/2000 - 08/17/2003 FY01: \$0 Total: \$100,000
Prin. Invest.: A VOLKOV
Tech. Officer: MSFC/W BRANTLEY
CASE Category: 12 - CHEMISTRY

NAG 8 1610 **TRENHOLM STATE TECHNICAL COLLEGE** **1056**
 NASA HIGH SCHOOL SCIENCE ENRICHMENT PROGRAM (HSSEP)
 06/07/1999 - 06/06/2002 FY01: \$100,000 Total: \$300,000
Prin. Invest.: C THOMPSON
Tech. Officer: MSFC/W LOVE, MSFC/A C BEAM
CASE Category: 21 - MATHEMATICS

NAG 1 1865 **TUSKEGEE UNIV** **1057**
 IDENTIFICATION OF SURFACE AND NEAR SURFACE DEFECTS AND
 DAMAGE EVALUATION BY LASER SPECKLE
 09/10/1996 - 09/09/2000 FY01: -\$5,870 Total: \$286,765
Prin. Invest.: J N BHUYAN
Tech. Officer: LARC/R ROGOSKI
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 2 6049 **TUSKEGEE UNIV** **1058**
 NASA'S SLSTP ACADEMIC PARTNER ALLIANCE (NSAPA)
 04/16/2001 - 03/31/2002 FY01: \$180,691 Total: \$180,691
Prin. Invest.: W A HILL, C E MORRIS
Tech. Officer: ARC/P X CALLAHAN, ARC/K A SOUZA
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 3 2127 **TUSKEGEE UNIV** **1059**
 STUDY OF ELECTRICAL CONTACTS AND DEVICES IN ADVANCED SEMI-
 CONDUCTORS
 02/13/1998 - 07/31/2001 FY01: \$0 Total: \$299,637
Prin. Invest.: K K DAS
Tech. Officer: GRC/S A ALTEROVITZ
CASE Category: 45 - ELECTRICAL ENGR

NAG 3 2347 **TUSKEGEE UNIV** **1060**
 SPUTTERING EROSION IN THE ION THRUSTER SPUTTERING EROSION IN
 THE ION THRUSTER
 03/09/2000 - 10/31/2001 FY01: \$20,000 Total: \$45,000
Prin. Invest.: D K RAY, NONE
Tech. Officer: GRC/M A MANTENIEKS
CASE Category: 13 - PHYSICS

NAG 3 2432 **TUSKEGEE UNIV** **1061**
 POLYIMIDE BASED NANOCOMPOSITES FOR AFFORDABLE SPACE TRANS-
 PORT
 06/23/2000 - 04/16/2003 FY01: \$100,000 Total: \$200,000
Prin. Invest.: D DEAN
Tech. Officer: GRC/S CAMPBELL
CASE Category: 49 - ENGINEERING, OTHER

NAG 4 169 **TUSKEGEE UNIV** **1062**
 EFFECTS OF ABOVE REAL TIME TRAINING
 05/17/1999 - 05/31/2001 FY01: \$0 Total: \$68,711
Prin. Invest.: S FIRASAT ALI
Tech. Officer: DFRC/K A NORLIN, DFRC/R BINKLEY
CASE Category: 41 - AERONAUTICAL ENGR

NAG 4 201 **TUSKEGEE UNIV** **1063**
 DURABILITY ASSESSMENT OF AIRFRAME COMPOSITE REPAIR PATCHES
 02/15/2000 – 09/30/2002 FY01: \$60,000 Total: \$120,000
Prin. Invest.: H A AGLAN
Tech. Officer: DFRC/M W KEHOE
CASE Category: 41 – AERONAUTICAL ENGR

NAG 4 203 **TUSKEGEE UNIV** **1064**
 EFFECTS OF SELF-INSTRUCTIONAL METHODS AND ABOVE RE AL TIME
 TRAINING (ARTT) FOR MANEUVERING TASKS ON
 03/03/2000 – 02/28/2002 FY01: \$0 Total: \$52,447
Prin. Invest.: D ALI
Tech. Officer: DFRC/K NORLIN
CASE Category: 41 – AERONAUTICAL ENGR

NAG 5 10535 **TUSKEGEE UNIV** **1065**
 SOY RESEARCH PILOT STUDY
 03/08/2001 – 03/14/2002 FY01: \$20,000 Total: \$20,000
Prin. Invest.: R D PACE
Tech. Officer: GSFC/M MATHEWS
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 8 1246 **TUSKEGEE UNIV** **1066**
 R/S ATOMIZATION IN IMPINGING-JET INJECTORS OF LIQUID-PROPELLANT
 ROCKET ENGINES
 10/31/1996 – 08/31/2001 FY01: \$0 Total: \$252,147
Prin. Invest.: D A IBRAHIM
Tech. Officer: MSFC/H TRINH
CASE Category: 46 – MECHANICAL ENGR

NAG10 209 **TUSKEGEE UNIV** **1067**
 SWEETPOTATO STEM CUTTING DATABASE IN PREPARATION FOR FLIGHT
 09/01/1997 – 02/28/2002 FY01: \$0 Total: \$295,346
Prin. Invest.: D MARTLEY
Tech. Officer: KSC/R WHEELER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG10 253 **TUSKEGEE UNIV** **1068**
 EVAL OF FIRE EXTINGUISHING HALON COMPOUNDS
 02/01/1999 – 12/31/2001 FY01: \$104,887 Total: \$302,507
Prin. Invest.: N VAHDAT
Tech. Officer: KSC/M COLLINS
CASE Category: 43 – CHEMICAL ENGR

NAG10 256 **TUSKEGEE UNIV** **1069**
 TUSKEGEE UNIV GATEWAY ACHIEVEMENT PROGRAM
 03/01/1999 – 03/01/2002 FY01: \$86,000 Total: \$257,306
Prin. Invest.: C DAVIS
Tech. Officer: KSC/R MCKINNEY
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG10 281 **TUSKEGEE UNIV** **1070**
 NASA SPACEFLIGHT AND LIFE SCIENCES TRAINING PROGRA M
 04/25/2000 – 03/07/2002 FY01: \$316,609 Total: \$620,025
Prin. Invest.: D HILL
Tech. Officer: KSC/S POTTER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG10 298 **TUSKEGEE UNIV** **1071**
 STARSAT 12000 TESTING TACTICS AND STRATEGIES STARSAT 12000
 TESTING TACTICS AND STRATEGIES
 04/27/2001 – 02/28/2002 FY01: \$100,000 Total: \$100,000
Prin. Invest.: H J FINDLAY
Tech. Officer: KSC/C D BLACK
CASE Category: 79 – SOCIAL SCIENCE, OTHER

NAG13 50 **TUSKEGEE UNIV** **1072**
 NASA UNIV PARTNERSHIP AWARD WITH MINORITY INSTS PROGRAM
 06/19/1997 – 06/30/2000 FY01: -\$6,185 Total: \$361,379
Prin. Invest.: E SHEPPARD
Tech. Officer: SSC/B ST. CYR
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NCC 3 591 **TUSKEGEE UNIV** **1073**
 HIGH TEMPERATURE FATGUE AND CREEP BEHAVIOR OF CERA MIC
 MATRIX COMPOSITES FOR EXHAUST NOZZLE APPLICAT
 03/11/1998 – 06/30/2001 FY01: \$0 Total: \$362,435
Prin. Invest.: A HAQUE, H MAHFUZ, U VAIDA
Tech. Officer: GRC/M J VERILLE, GRC/J E GRADY
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 726 **TUSKEGEE UNIV** **1074**
 STUDY OF DESIGN PRINCIPLES AND SPARE PLASMA INTERA CTION ON
 MODULAR HIGH VOLTAGE POWER DISTRIBUTION
 08/05/1999 – 07/31/2000 FY01: -\$941 Total: \$1,934
Prin. Invest.: C V DORESWAMY
Tech. Officer: GRC/D C FERGUSON
CASE Category: 45 – ELECTRICAL ENGR

NCC 5 346 **TUSKEGEE UNIV** **1075**
 CENTER FOR LIDAR AND ATMOSPHERIC SCIENCES STUDENTS
 07/01/1998 – 07/31/2003 FY01: \$0 Total: \$1,488,578
Prin. Invest.: N O EGIEBOR
Tech. Officer: HQ/B WHITE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NCC 9 51 **TUSKEGEE UNIV** **1076**
 CENTER FOR FOOD & ENVIRON SYS ...(CFESH)
 07/31/1997 – 12/31/2001 FY01: \$1,225,000 Total: \$5,225,000
Prin. Invest.: W A HILL
Tech. Officer: JSC/D BARTA
CASE Category: 62 – PSYCHOLOGY SOCIAL ASPECTS

NAG 2 1348 **UNIV OF ALABAMA – BIRMINGHAM** **1077**
 MOLECULAR BASIS OF MECHANO-SIGNAL TRANSDUCTION IN VASCULAR
 ENDOTHELIAL CELLS
 07/23/1999 – 07/31/2000 FY01: -\$40,370 Total: \$209,662
Prin. Invest.: V D DARLEY-USMAR
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 3 2560 **UNIV OF ALABAMA – BIRMINGHAM** **1078**
 MAGNETICALLY ASSISTED COMBUSTION EXPERIMENT (MACE)
 03/22/2001 – 01/17/2005 FY01: \$20,000 Total: \$20,000
Prin. Invest.: J BAKER
Tech. Officer: GRC/K R SACKSTEDER
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 4853 UNIV OF ALABAMA - BIRMINGHAM 1079
 FORMATION OF THE HYDROCARBONS OF CARBONACEOUS CHON
 07/23/1997 - 03/31/2002 FY01: \$0 Total: \$130,412
Prin. Invest.: D W DOWIAK
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 6815 UNIV OF ALABAMA - BIRMINGHAM 1080
 INVESTIGATION OF THE CONTRIBUTION OF POLYCYCLIC AROMATIC
 HYDROCARBONS TO INTERSTELLAR ULTRAVIOLET E
 01/05/1998 - 12/31/2001 FY01: \$0 Total: \$76,492
Prin. Invest.: T W DOWIAK
Tech. Officer: GSFC/H HASAN
CASE Category: 11 - ASTRONOMY

NAG 5 7079 UNIV OF ALABAMA - BIRMINGHAM 1081
 REPEATING IMPACT TOOL FOR IN-SITU GEOLOGY INVESTIGATIONS
 03/06/1998 - 03/31/2001 FY01: \$0 Total: \$109,902
Prin. Invest.: T J W DOWIAK
Tech. Officer: GSFC/B CAMPBELL
CASE Category: 11 - ASTRONOMY

NAG 5 8786 UNIV OF ALABAMA - BIRMINGHAM 1082
 DEVELOPMENT OF HIGH AFFINITY SENSORS FOR BIOLOGICAL PATH-
 OGENS
 09/02/1999 - 09/30/2001 FY01: \$0 Total: \$800,000
Prin. Invest.: L DELUCAS
Tech. Officer: GSFC/E PAYLOR
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8819 UNIV OF ALABAMA - BIRMINGHAM 1083
 THE IR EMITTING AROMATIC COMPONENT OF THE INTERSTELLAR AND
 CIRCUMSTELLAR MEDIUMS
 09/07/1999 - 07/31/2002 FY01: \$39,600 Total: \$115,460
Prin. Invest.: T W DOWIAK
Tech. Officer: GSFC/M MEYER
CASE Category: 11 - ASTRONOMY

NAG 5 9424 UNIV OF ALABAMA - BIRMINGHAM 1084
 TOF MS IN SITU PLANETARY SCIENCE AND EXOBIOLOGY ON EUROPA
 04/17/2000 - 04/29/2002 FY01: \$120,237 Total: \$248,738
Prin. Invest.: T W DOWIAK
Tech. Officer: GSFC/B BETTS
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10694 UNIV OF ALABAMA - BIRMINGHAM 1085
 NEAR-CRITICAL WATER AQUEOUS ALTERATION PROCESSES IN PLAN-
 ETESIMALS
 04/16/2001 - 04/14/2002 FY01: \$15,000 Total: \$15,000
Prin. Invest.: T W DOWIAK
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 11146 UNIV OF ALABAMA - BIRMINGHAM 1086
 STRUCTURE-BASED DRUG DESIGN AND EVALUATION OF NATURAL
 COMPOUNDS AGAINST CHAGAS'DISEASE
 08/09/2001 - 09/30/2002 FY01: \$997,800 Total: \$997,800
Prin. Invest.: L J DELUCAS
Tech. Officer: GSFC/L P CHAMBERS
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 11267 UNIV OF ALABAMA - BIRMINGHAM 1087
 DEVELOPMENT OF HIGH AFFINITY SENSORS FOR BIOLOGICAL PATH-
 OGENS
 09/26/2001 - 09/30/2002 FY01: \$9,000 Total: \$9,000
Prin. Invest.: L DELUCAS, NONE
Tech. Officer: GSFC/E PAYLOR
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 8 1228 UNIV OF ALABAMA - BIRMINGHAM 1088
 THE EFFECT OF CONVECTION ON MORPHOLOGICAL STABILITY
 05/01/1996 - 11/30/2001 FY01: \$0 Total: \$420,000
Prin. Invest.: J B ANDREWS
Tech. Officer: MSFC/P DOTY, MSFC/R POWER
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1678 UNIV OF ALABAMA - BIRMINGHAM 1089
 RESEARCH "CONTROLLED SYNTHESIS OF NANOPARTICLES USING BLOCK
 COPOLYMERS: NANOREACTORS IN MICROGRAVITY
 04/11/2000 - 10/10/2003 FY01: \$104,500 Total: \$154,500
Prin. Invest.: J W MAYS
Tech. Officer: MSFC/P M DOTY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAS 8 40189 UNIV OF ALABAMA - BIRMINGHAM 1090
 PROTEIN CRYSTAL GROWTH IN MICROGRAVITY
 04/01/1994 - 06/30/2004 FY01: \$3,021,195 Total: \$22,629,136
Prin. Invest.: L J DELUCAS
Tech. Officer: MSFC/D K COLLINS
CASE Category: 59 - LIFE SCIENCE, OTHER

NAS 8 99059 UNIV OF ALABAMA - BIRMINGHAM 1091
 R/S COUPLED GROWTH IN HYPERMONOTECTICS
 01/22/1999 - 03/31/2003 FY01: \$268,957 Total: \$968,323
Prin. Invest.: J B ANDREWS
Tech. Officer: MSFC/R KING
CASE Category: 13 - PHYSICS

NCC 8 126 UNIV OF ALABAMA - BIRMINGHAM 1092
 FOR RES."CONTINUATION OF SUPPORT FOR COMMERCIAL SPACE CTR,
 CTR FOR MACROMOLECULAR CRYSTALLOGRAPHY"
 01/27/1997 - 10/31/2005 FY01: \$8,015,204 Total: \$37,500,247
Prin. Invest.: L J DELUCAS
Tech. Officer: MSFC/S LIDE, MSFC/S LAMBIHG
CASE Category: 41 - AERONAUTICAL ENGR

NCC 8 172 UNIV OF ALABAMA - BIRMINGHAM 1093
 "MICROGRAVITY CRYSTAL GROWTH STUDIES OF MEDICALLY RELEVANT
 MACROMOLECULES"
 02/11/1999 - 09/30/2002 FY01: \$290,085 Total: \$799,512
Prin. Invest.: L J DELUCAS
Tech. Officer: MSFC/T OWEN
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NCC 8 204 UNIV OF ALABAMA - BIRMINGHAM 1094
 STRUCTURAL FLUCTUATIONS & THERMOPHYSICAL PROPERTIES OF
 MOLTEN II - IV COMPOUNDS
 07/14/2000 - 11/30/2003 FY01: \$22,968 Total: \$42,969
Prin. Invest.: R SCRIPA
Tech. Officer: MSFC/C HUA SU
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

<p>NGT 8 52845 UNIV OF ALABAMA - BIRMINGHAM 1095 GRADUATE STUDENT RESEARCH PROGRAM FELLOWSHIP 09/12/1997 - 02/11/2001 FY01: \$0 Total: \$66,000 <i>Prin. Invest.:</i> C M LAWSON <i>Tech. Officer:</i> MSFC/J F DOWDY, MSFC/J R PRUITT <i>CASE Category:</i> 13 - PHYSICS</p>	<p>NAG 5 4111 UNIV OF ALABAMA - HUNTSVILLE 1103 FAST SPECTROSCOPY OF Z SOURCES; OBSERVATIONS OF TH BURST 04/28/1997 - 04/14/2000 FY01: \$0 Total: \$26,000 <i>Prin. Invest.:</i> W PACIESAS <i>Tech. Officer:</i> GSFC/J SWANK <i>CASE Category:</i> 11 - ASTRONOMY</p>
<p>NAG 1 2026 UNIV OF ALABAMA - HUNTSVILLE 1096 AEROSOL RETRIEVALS FROM HIGH RESOLUTION BROADBAND ATMOS SOLAR OCCULTATION SPECTRA 03/19/1998 - 12/31/2001 FY01: \$1 Total: \$201,001 <i>Prin. Invest.:</i> M J NEWCHURCH <i>Tech. Officer:</i> LARC/G L MADDREA, LARC/L R POOLE <i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE</p>	<p>NAG 5 4268 UNIV OF ALABAMA - HUNTSVILLE 1104 THERMAL STRUCTURE AND COMPOSITION OF THE INNER MAG 03/25/1997 - 05/14/2001 FY01: \$0 Total: \$189,325 <i>Prin. Invest.:</i> D H COMFORT <i>Tech. Officer:</i> GSFC/J BOHLIN <i>CASE Category:</i> 13 - PHYSICS</p>
<p>NAG 1 2204 UNIV OF ALABAMA - HUNTSVILLE 1097 OZONE TRENDS IN SAGE, HALOE, TOMS, UMKEHR, AND LIDAR MEASUREMENTS (NRA-98-OES-04) 06/11/1999 - 06/30/2002 FY01: \$110,066 Total: \$275,066 <i>Prin. Invest.:</i> M J NEWCHURCH <i>Tech. Officer:</i> LARC/G L MADDREA, LARC/L R POOLE <i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE</p>	<p>NAG 5 4608 UNIV OF ALABAMA - HUNTSVILLE 1105 ION ACCELERATION AND ABUNDANCE ENHANCEMENTS IN IMP 05/20/1997 - 09/30/2001 FY01: \$0 Total: \$105,000 <i>Prin. Invest.:</i> P A MILLER <i>Tech. Officer:</i> GSFC/J A LING <i>CASE Category:</i> 11 - ASTRONOMY</p>
<p>NAG 1 01008 UNIV OF ALABAMA - HUNTSVILLE 1098 NUMERICAL STUDY OF BLAST WAVES GENERATED DURING LAUNCH VEHICLE TAKE-OFF & SUPPRESSION BY WATER ADD 02/06/2001 - 01/31/2004 FY01: \$54,637 Total: \$54,637 <i>Prin. Invest.:</i> K FRENDI <i>Tech. Officer:</i> LARC/B A SINGER, LARC/R J SILCOX <i>CASE Category:</i> 41 - AERONAUTICAL ENGR</p>	<p>NAG 5 4893 UNIV OF ALABAMA - HUNTSVILLE 1106 COUPLING OF MICRO-AND MESO-SCALE PROCESSES DURING IC REFIL- LING 06/20/1997 - 04/30/2000 FY01: -\$50 Total: \$69,950 <i>Prin. Invest.:</i> N SINGH <i>Tech. Officer:</i> GSFC/J BOHLIN <i>CASE Category:</i> 13 - PHYSICS</p>
<p>NAG 3 2285 UNIV OF ALABAMA - HUNTSVILLE 1099 STUDY OF THE STRUCTURE COMPOSITION AND ELECTRICAL PROPERTIES OF SILICON CARBIDE EPI-TAXIAL FILMS FOR 08/04/1999 - 06/30/2002 FY01: \$0 Total: \$30,909 <i>Prin. Invest.:</i> D A GEORGE <i>Tech. Officer:</i> GRC/D J LARKIN <i>CASE Category:</i> 45 - ELECTRICAL ENGR</p>	<p>NAG 5 4951 UNIV OF ALABAMA - HUNTSVILLE 1107 ELECTRON ACCELERATION IN IMPULSIVE SOLAR FLARES 06/23/1997 - 02/29/2000 FY01: -\$1,321 Total: \$166,679 <i>Prin. Invest.:</i> J A MILLER <i>Tech. Officer:</i> GSFC/W J WAGNER <i>CASE Category:</i> 13 - PHYSICS</p>
<p>NAG 5 3675 UNIV OF ALABAMA - HUNTSVILLE 1100 A STUDY OF TERRESTRIAL GAMMA-RAY FLASHES OBSERVED 01/02/1997 - 01/14/2000 FY01: -\$14 Total: \$33,987 <i>Prin. Invest.:</i> R MALLOZZI <i>Tech. Officer:</i> GSFC/J P NORRIS <i>CASE Category:</i> 11 - ASTRONOMY</p>	<p>NAG 5 5112 UNIV OF ALABAMA - HUNTSVILLE 1108 DEVELOPMENT OF SIFTER WITH SIMULTANEOUS TRACKING AND CALORIMETRY 02/12/1997 - 12/31/2000 FY01: -\$126 Total: \$277,874 <i>Prin. Invest.:</i> G N PENDLETON <i>Tech. Officer:</i> GSFC/H C NEEDLEMAN, GSFC/B A MERRITT <i>CASE Category:</i> 13 - PHYSICS</p>
<p>NAG 5 4003 UNIV OF ALABAMA - HUNTSVILLE 1101 AUTOMATED IDENTIFICATION OF MORPHOLOGICAL SIGNATUR IMAGES 03/06/1997 - 08/31/2000 FY01: -\$70 Total: \$326,930 <i>Prin. Invest.:</i> D G RICHARDS <i>Tech. Officer:</i> GSFC/J BREDEKAMP <i>CASE Category:</i> 22 - COMPUTER SCIENCE</p>	<p>NAG 5 5273 UNIV OF ALABAMA - HUNTSVILLE 1109 PHASE 1 OF THOR PROJECT PHAS 1 OF THOR PROJECT 04/17/2000 - 04/13/2006 FY01: \$0 Total: \$281,000 <i>Prin. Invest.:</i> J DIMMOCK <i>Tech. Officer:</i> GSFC/D L PIERCE <i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER</p>
<p>NAG 5 4027 UNIV OF ALABAMA - HUNTSVILLE 1102 DIAGNOSTICS OF MASS MOTIONS IN SOLAR FLARES 03/26/1997 - 03/31/2000 FY01: \$0 Total: \$208,000 <i>Prin. Invest.:</i> D EMSLIE <i>Tech. Officer:</i> GSFC/W J WAGNER <i>CASE Category:</i> 13 - PHYSICS</p>	<p>NAG 5 5298 UNIV OF ALABAMA - HUNTSVILLE 1110 SCINTILLATING FIBER TELESCOPE FOR ENERGETIC RADIATION, GAMMA-RAY APPLICATIONS (SIFTER) 06/12/2000 - 12/31/2001 FY01: \$0 Total: \$130,000 <i>Prin. Invest.:</i> PENDLETON <i>Tech. Officer:</i> WFF/B A MERRITT <i>CASE Category:</i> 13 - PHYSICS</p>

NAG 5 6021 UNIV OF ALABAMA - HUNTSVILLE 1111
 ACCRETING BLACK HOLES - AN ALL OUT EFFORT
 08/19/1997 - 08/14/2000 FY01: \$0 Total: \$207,336
Prin. Invest.: J PACIESAS
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 6986 UNIV OF ALABAMA - HUNTSVILLE 1112
 QUANTIFICATION OF CHANGES IN THEMOSPHERIC O/N2 FRO M OBSERVA-
 TIONS OF UV AIRGLOW AND AURORA
 02/10/1998 - 03/31/2001 FY01: \$0 Total: \$228,256
Prin. Invest.: G A GERMANY
Tech. Officer: GSFC/M MELLOTT
CASE Category: 11 - ASTRONOMY

NAG 5 7269 UNIV OF ALABAMA - HUNTSVILLE 1113
 DERIVATION OF TROPOSPHERIC OZONE CLIMATOLOGY AND T RENDS
 FROM TOMS DATA
 05/07/1998 - 05/14/2002 FY01: \$0 Total: \$259,246
Prin. Invest.: M NEWCHURCH
Tech. Officer: GSFC/S CHANDRA
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7270 UNIV OF ALABAMA - HUNTSVILLE 1114
 VALIDATION AND INTERCOMPARISON OF TOMS AEROSOL PRO DUCTS
 USING SATELLITE AND GROUND BASED MEASUREMEN
 04/22/1998 - 12/31/2001 FY01: \$23,000 Total: \$227,500
Prin. Invest.: S A CHRISTOPHER
Tech. Officer: GSFC/J R HERMAN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7494 UNIV OF ALABAMA - HUNTSVILLE 1115
 XTE PROPOSAL (30062) A VARYING KHZ PEAK SEPARATION IN 4U 1608-52?
 06/29/1998 - 06/30/2000 FY01: -\$12 Total: \$7,013
Prin. Invest.: W S PACIESAS
Tech. Officer: GSFC/J SWANK
CASE Category: 11 - ASTRONOMY

NAG 5 7655 UNIV OF ALABAMA - HUNTSVILLE 1116
 REMOTE SENSING OF MAGNETOSPHERIC STRUCTURE USING (U,B,K)
 ANALYSIS OFISTP PARTICLE AND FIELD DAT
 09/15/1998 - 08/31/2000 FY01: -\$168 Total: \$43,538
Prin. Invest.: D SHELDON
Tech. Officer: GSFC/D EVANS
CASE Category: 11 - ASTRONOMY

NAG 5 7772 UNIV OF ALABAMA - HUNTSVILLE 1117
 STUDY OF GAMMA-RAY BURST MONITOR FOR GLAST MISSION TO
 FURTHER DEFINE THE ENGINEERING CHARACTERISTIC
 10/28/1998 - 06/30/2000 FY01: \$0 Total: \$20,000
Prin. Invest.: D KIPPEN
Tech. Officer: GSFC/M DIJOSEPH
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 7809 UNIV OF ALABAMA - HUNTSVILLE 1118
 IMPROVED CHARACGTERIZATIN OF PAST AND FUTURE BATSE
 GAMMA-RAY BURST LOCATIONS
 11/10/1998 - 11/30/2000 FY01: \$0 Total: \$9,999
Prin. Invest.: R KIPPEN
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 - ASTRONOMY

NAG 5 7811 UNIV OF ALABAMA - HUNTSVILLE 1119
 A NEW GRB DURATION MEASURE AND ITS APPLICATIONS TO COSMOLOG-
 ICALINVARIANT PARAMETERS
 11/12/1998 - 11/30/2000 FY01: \$0 Total: \$15,000
Prin. Invest.: R PREECE
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 - ASTRONOMY

NAG 5 7844 UNIV OF ALABAMA - HUNTSVILLE 1120
 MODELING COUPLED KATABATIC/ICE/OCEAN PROCESSES REL ATED TO
 THE ENERGY ANDCARBONBUDGET IN THE HIGH L
 11/18/1998 - 05/31/2000 FY01: -\$4 Total: \$119,580
Prin. Invest.: R T MCNIDER
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7927 UNIV OF ALABAMA - HUNTSVILLE 1121
 RELATIVISTIC ASTROPHYSICS IN BLACK HOLE AND LOW-MA SS NEUTRON
 STAR X-RAY BINARIES - LTSA98
 01/12/1999 - 01/14/2002 FY01: \$32,851 Total: \$96,600
Prin. Invest.: S ZHANG
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 7972 UNIV OF ALABAMA - HUNTSVILLE 1122
 TESTING THE PHYSICAL MECHANISMS OF GAMMA-RAY BURST S WITH-
 MULTI-INSTRUMENT TIME-RESOL
 12/22/1998 - 12/31/2001 FY01: \$92,489 Total: \$267,013
Prin. Invest.: M S BRIGGS
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 7979 UNIV OF ALABAMA - HUNTSVILLE 1123
 A SURVEY OF RING CURRENT DIRECT INJECTION EVENTS
 01/13/1999 - 01/14/2001 FY01: \$0 Total: \$40,037
Prin. Invest.: R SHELDON
Tech. Officer: GSFC/M H ACUNA
CASE Category: 13 - PHYSICS

NAG 5 7991 UNIV OF ALABAMA - HUNTSVILLE 1124
 AN EMPIRICAL MODEL OF CORONAL HEATING DEDUCED FROM SOHO
 OBSERVATIONSOFTANSITION REGION DYNAM
 01/05/1999 - 01/31/2002 FY01: \$0 Total: \$166,538
Prin. Invest.: G EMSLIE
Tech. Officer: GSFC/J GURMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 8009 UNIV OF ALABAMA - HUNTSVILLE 1125
 GEOMAGNETIC CUTOFF RIGIDITY COMPUTER PROGRAM
 01/13/1999 - 12/31/2000 FY01: \$0 Total: \$10,000
Prin. Invest.: M SHEA
Tech. Officer: GSFC/J H BREDEKAMP
CASE Category: 11 - ASTRONOMY

NAG 5 8011 UNIV OF ALABAMA - HUNTSVILLE 1126
 GROUND-LEVEL SOLAR COSMIC RAY DATA FROM SOLAR CYCLE 19
 01/13/1999 - 12/31/2001 FY01: \$0 Total: \$57,000
Prin. Invest.: M SHEA
Tech. Officer: GSFC/J H BREDEKAMP
CASE Category: 11 - ASTRONOMY

NAG 5 8034 UNIV OF ALABAMA - HUNTSVILLE 1127
 UAH ANALYSIS OF TIDE/PSI DATA FOR ISTEP SOLAR MAXIMUM EXTENDED MISSION
 01/19/1999 - 01/31/2002 FY01: \$90,000 Total: \$307,862
Prin. Invest.: H COMFORT
Tech. Officer: GSFC/R HOFFMAN
CASE Category: 11 - ASTRONOMY

NAG 5 8210 UNIV OF ALABAMA - HUNTSVILLE 1128
 TOWARDS AN UNDERSTANDING OF THE LUMINOUS SOFT EXCESS EMISSION FROM CLUSTERS OF GALAXIES (ADP9)
 02/25/1999 - 02/28/2002 FY01: \$41,245 Total: \$118,486
Prin. Invest.: R LIEU
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8234 UNIV OF ALABAMA - HUNTSVILLE 1129
 BASTE TRIGGERED MULTI-WAVELENGTH OBSERVATIONS OF THE GALACTIC SUPERLUMINAL SOURCES GRO J1655-40 AND
 03/03/1999 - 02/14/2002 FY01: \$0 Total: \$23,779
Prin. Invest.: C ROBINSON
Tech. Officer: GSFC/J SWANK
CASE Category: 11 - ASTRONOMY

NAG 5 8303 UNIV OF ALABAMA - HUNTSVILLE 1130
 RESTORATION, ENHANCEMENT, AND DISTRIBUTION OF THE ATLAS-1 IMAGING SPECTROMETRIC OBSERVATORY (ISO)
 03/05/1999 - 09/14/2001 FY01: \$0 Total: \$221,869
Prin. Invest.: G A GERMANY
Tech. Officer: GSFC/J BREDEKAMP
CASE Category: 11 - ASTRONOMY

NAG 5 8433 UNIV OF ALABAMA - HUNTSVILLE 1131
 ASCA PROPOSAL - X-RAY SPECTROSCOPY OF THE TWO GALACTIC SUPERLUMINAL SOURCES: GRO J1655-40 &
 04/01/1999 - 01/31/2000 FY01: \$0 Total: \$19,000
Prin. Invest.: S ZHANG
Tech. Officer: GSFC/N WHITE
CASE Category: 11 - ASTRONOMY

NAG 5 8440 UNIV OF ALABAMA - HUNTSVILLE 1132
 BROAD BAND LONG TERM MONITORING OF X-RAY BURSTERS
 04/01/1999 - 01/31/2001 FY01: \$0 Total: \$14,700
Prin. Invest.: S ZHANG
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 - ASTRONOMY

NAG 5 8480 UNIV OF ALABAMA - HUNTSVILLE 1133
 STOCHASTIC PARTICLE ACCELERATION IN IMPULSIVE SOLAR FLARES
 04/29/1999 - 12/31/2000 FY01: \$0 Total: \$112,181
Prin. Invest.: J J MILLER
Tech. Officer: GSFC/W J WAGNER
CASE Category: 11 - ASTRONOMY

NAG 5 8523 UNIV OF ALABAMA - HUNTSVILLE 1134
 MULTI-WAVELENGTH EXAMINATION OF GALACTIC SUPERLUMINAL JET SOURCES (LTS A98)
 05/27/1999 - 05/31/2002 FY01: \$77,090 Total: \$220,560
Prin. Invest.: S ZHANG
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8606 UNIV OF ALABAMA - HUNTSVILLE 1135
 GRB AFTERGLOW OBSERVATIONS WITH THE WHIPPLE OBSERVATORY
 06/07/1999 - 06/14/2000 FY01: -\$1 Total: \$9,985
Prin. Invest.: W PACIESAS
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 - ASTRONOMY

NAG 5 8620 UNIV OF ALABAMA - HUNTSVILLE 1136
 OBSERVATIONS OF BL LAC OBJECTS USING THE BATSE OCCULTATION TECHNIQUE
 06/18/1999 - 06/14/2000 FY01: \$0 Total: \$14,994
Prin. Invest.: W PACIESAS
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 - ASTRONOMY

NAG 5 8646 UNIV OF ALABAMA - HUNTSVILLE 1137
 "STUDY OF THE EVOLUTION OF PRECIPITATION AND CLOUD STRUCTURES DURING THE LIFE CYCLES OF TROPICAL...
 07/19/1999 - 07/31/2000 FY01: -\$394 Total: \$21,605
Prin. Invest.: Q HAN
Tech. Officer: GSFC/W B ROSSOW
CASE Category: 13 - PHYSICS

NAG 5 8690 UNIV OF ALABAMA - HUNTSVILLE 1138
 SYSTEMATIC STUDY OF PROPELLER EFFECTS IN NEUTRON STAR BINARIES
 07/26/1999 - 07/31/2000 FY01: -\$17 Total: \$8,588
Prin. Invest.: S N ZHANG
Tech. Officer: GSFC/J SWANK
CASE Category: 11 - ASTRONOMY

NAG 5 8956 UNIV OF ALABAMA - HUNTSVILLE 1139
 SEARCH FOR UV EMISSION LINES FROM THE WARM INTRA CLUSTER MEDIUM - FUSE
 01/24/2000 - 01/31/2002 FY01: \$0 Total: \$36,200
Prin. Invest.: R LIEU
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 9045 UNIV OF ALABAMA - HUNTSVILLE 1140
 STUDIES OF ACCRETING NEUTRON STARS WITH RXTE CYCLE 4 OBS, II: TOO OBSERVATIONS OF TRANSIENT LOW-MAS
 02/25/2000 - 02/28/2001 FY01: \$9,949 Total: \$42,293
Prin. Invest.: W PACIESAS
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9183 UNIV OF ALABAMA - HUNTSVILLE 1141
 DIAGNOSING THE SOFT EXCESS EMISSION OF A1795 CLUSTER OF GALAXIES - BEPOSAX BROAD BAND IMAGING
 03/07/2000 - 03/14/2002 FY01: \$0 Total: \$40,482
Prin. Invest.: R LIEU
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9200 UNIV OF ALABAMA - HUNTSVILLE 1142
 INVESTIGATION OF THERMOSPHERIC & IONOSPHERIC CHANGES DURING IONOSPHERIC STORMS WITH SATELLITE
 03/09/2000 - 03/14/2002 FY01: \$82,508 Total: \$157,408
Prin. Invest.: P RICHARDS
Tech. Officer: GSFC/M MELLOTT
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 9244 UNIV OF ALABAMA - HUNTSVILLE 1143
 STUDIES OF ACCRETING NEUTRON STARS WITH RXTE (CYCLE 4
 OBSERVATIONS), III: TOO OBSERVATIONS OF
 03/13/2000 - 03/14/2001 FY01: \$0 Total: \$22,593
Prin. Invest.: W PACIESAS
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9292 UNIV OF ALABAMA - HUNTSVILLE 1144
 STUDIES OF ACCRETING BLACK HOLES WITH RXTE (CYCLE 4 OBSERVA-
 TIONS)-ADP99
 03/20/2000 - 03/31/2001 FY01: \$0 Total: \$22,593
Prin. Invest.: W PACIESAS
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9397 UNIV OF ALABAMA - HUNTSVILLE 1145
 THREE-DIMENSIONAL KINETIC SIMULATIONS OF THE COMBI NED CROSS-
 CURRENT AND TEARING MODE INSTABILITIES
 04/05/2000 - 09/30/2001 FY01: \$0 Total: \$16,500
Prin. Invest.: N SINGH
Tech. Officer: GSFC/J SHARBER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9508 UNIV OF ALABAMA - HUNTSVILLE 1146
 ANALYSES OF EIT/LASCO OBSERVATIONS USING AVAILABLE MHD MODELS:
 INVESTIGATION OF CME INITIATION
 04/25/2000 - 05/31/2001 FY01: \$0 Total: \$22,000
Prin. Invest.: S WU
Tech. Officer: GSFC/W J WAGNER
CASE Category: 13 - PHYSICS

NAG 5 9585 UNIV OF ALABAMA - HUNTSVILLE 1147
 EARTH SCIENCE MARKUP LANGUAGE
 05/19/2000 - 05/14/2002 FY01: \$175,000 Total: \$335,000
Prin. Invest.: D GRAVES
Tech. Officer: GSFC/J BEHNKE
CASE Category: 22 - COMPUTER SCIENCE

NAG 5 9598 UNIV OF ALABAMA - HUNTSVILLE 1148
 PRODUCTION OF LOOP-TOP HARD X-RAY EMISSION
 05/15/2000 - 04/30/2002 FY01: \$51,521 Total: \$68,695
Prin. Invest.: J K MILLER
Tech. Officer: GSFC/W J WAGNER
CASE Category: 13 - PHYSICS

NAG 5 9686 UNIV OF ALABAMA - HUNTSVILLE 1149
 BATSE/SAX & BATSE/RXTE-ASM JOINT SPECTRAL STUDIES OF GRBS
 06/05/2000 - 06/14/2001 FY01: \$0 Total: \$10,000
Prin. Invest.: W PACIESAS
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 - ASTRONOMY

NAG 5 9741 UNIV OF ALABAMA - HUNTSVILLE 1150
 PROPERTIES OF CUSP DIAMAGNETIC CAVITIES
 06/21/2000 - 06/30/2002 FY01: \$0 Total: \$69,999
Prin. Invest.: R SHELDON
Tech. Officer: GSFC/R HOFFMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 9923 UNIV OF ALABAMA - HUNTSVILLE 1151
 THERMAL & NONTHERMAL EMISSION FROM THE INTRACLUST ER
 MEDIUM OF A 2199
 09/05/2000 - 09/14/2001 FY01: \$0 Total: \$7,600
Prin. Invest.: R LIEU
Tech. Officer: GSFC/P M ATKINS
CASE Category: 11 - ASTRONOMY

NAG 5 10009 UNIV OF ALABAMA - HUNTSVILLE 1152
 PULSARS OLD AND CLOSE IN SPACE: HOT POLAR-CAPS OR MAGNETO-
 SPHERIC EMISSION
 09/25/2000 - 09/30/2001 FY01: \$0 Total: \$8,600
Prin. Invest.: S N ZHANG
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10012 UNIV OF ALABAMA - HUNTSVILLE 1153
 PROBING THE X-RAY EMISSION MECHANISMS OF RECYCLED- PULSARS:
 PSRJ0034-0534
 09/25/2000 - 09/30/2001 FY01: \$0 Total: \$6,600
Prin. Invest.: S N ZHANG
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10099 UNIV OF ALABAMA - HUNTSVILLE 1154
 THE X-RAY PROPERTIES OF LOCAL GALAXIES: BRIDGING THE GAP TO
 HIGH-Z
 11/20/2000 - 11/30/2001 FY01: \$18,547 Total: \$18,547
Prin. Invest.: E A RICHARDS
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10134 UNIV OF ALABAMA - HUNTSVILLE 1155
 STUDY OF THE EVOLUTION OF PRECIPITATION AND CLOUD STRUCTURES
 DURING THE LIFE CYCLE OF TROPICAL MEOS
 12/15/2000 - 07/31/2002 FY01: \$43,970 Total: \$43,970
Prin. Invest.: Q HAN
Tech. Officer: GSFC/W B ROSSOW
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 10407 UNIV OF ALABAMA - HUNTSVILLE 1156
 ESML FOR EARTH SCIENCE DATA SET AND ANALYSIS.
 04/02/2001 - 04/30/2002 FY01: \$300,000 Total: \$300,000
Prin. Invest.: D GRAVES
Tech. Officer: GSFC/K L MOE
CASE Category: 22 - COMPUTER SCIENCE

NAG 5 10743 UNIV OF ALABAMA - HUNTSVILLE 1157
 ONLINE SEARCH AND METADATA VISUALIZATION TOOL
 04/12/2001 - 04/30/2002 FY01: \$124,702 Total: \$124,702
Prin. Invest.: G A GERMANY
Tech. Officer: GSFC/P E HUNTER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10782 UNIV OF ALABAMA - HUNTSVILLE 1158
 INVESTIGATING THE INTERACTION-STARBURST CONNECTION (ADP 2000)
 04/23/2001 - 05/31/2001 FY01: \$0 Total: \$0
Prin. Invest.: J W SULENTIC
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 10785 UNIV OF ALABAMA - HUNTSVILLE 1159
 HISTORICAL EVIDENCE FOR MAJOR-SOLAR-TERRESTRIAL- OUTBURSTS
 FOR PAST 150 YEARS FROM THE ANALYSIS OF
 04/27/2001 - 04/30/2002 FY01: \$57,698 Total: \$57,698
Prin. Invest.: M A SHEA
Tech. Officer: GSFC/W WAGNER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10943 UNIV OF ALABAMA - HUNTSVILLE 1160
 CHANGES IN GEOMAGNETIC CUTOFF RIGIDITIES OVER A 400-YEAR
 INTERVAL
 05/15/2001 - 06/30/2002 FY01: \$34,608 Total: \$34,608
Prin. Invest.: D F SMART
Tech. Officer: GSFC/J F SPANN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10949 UNIV OF ALABAMA - HUNTSVILLE 1161
 COMPTTEL GRB SPECTRAL CATALOG (ADP 2000)
 05/24/2001 - 05/31/2002 FY01: \$25,813 Total: \$25,813
Prin. Invest.: M R KIPPEN
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 10965 UNIV OF ALABAMA - HUNTSVILLE 1162
 OZONE RETRIEVAL ERRORS ASSOCIATED WITH CLOUDS
 06/01/2001 - 05/31/2002 FY01: \$60,000 Total: \$60,000
Prin. Invest.: M NEWCHURCH
Tech. Officer: GSFC/R MCPETERS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 11096 UNIV OF ALABAMA - HUNTSVILLE 1163
 CRITICAL ASSESSMENT OF TOMS-DERIVED TROPOSPHERIC OZONE:
 COMPARISONS WITH OTHER MEASUREMENTS & MODEL
 07/11/2001 - 08/31/2002 FY01: \$60,000 Total: \$60,000
Prin. Invest.: M NEWCHURCH
Tech. Officer: GSFC/R MCPETERS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 11100 UNIV OF ALABAMA - HUNTSVILLE 1164
 VALIDATING AIRS OZONE OBSERVATIONS WITH TOMS, DOBS ON, BREWER,
 SAGE, MLS,HALOE AND OZONESONDE OBSERV
 07/10/2001 - 08/31/2002 FY01: \$56,969 Total: \$56,969
Prin. Invest.: M J NEWCHURCH
Tech. Officer: GSFC/D STARR
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 11209 UNIV OF ALABAMA - HUNTSVILLE 1165
 EARLY BATSE GRB AFTERGLOWS (ADP 2000)
 09/10/2001 - 08/31/2002 FY01: \$10,000 Total: \$10,000
Prin. Invest.: V C CONNAUGHTON
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 11248 UNIV OF ALABAMA - HUNTSVILLE 1166
 OPTIMAL AEROSOL PARAMETERIZATION FOR REMOTE SENSIN G
 RETRIEVALS
 08/16/2001 - 08/14/2004 FY01: \$132,485 Total: \$132,485
Prin. Invest.: M NEWCHURCH
Tech. Officer: GSFC/P DECOLA
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1229 UNIV OF ALABAMA - HUNTSVILLE 1167
 A THEORETICAL & EXPERIMENTAL INVESTIGATION OF VIBRATIONAL
 CONTROL OF BRIDGMAN CRYSTAL GROWTH TEC
 05/31/1996 - 11/30/2000 FY01: -\$36 Total: \$339,943
Prin. Invest.: A FEDOSEYER
Tech. Officer: MSFC/P DOTY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1354 UNIV OF ALABAMA - HUNTSVILLE 1168
 R/S PROTEIN PRECIPITANT SPECIFIC CRITERIA FOR THE IMPACT OF
 REDUCED GRAVITY ON CRYSTAL PEFECTION
 06/04/1997 - 07/31/2001 FY01: \$0 Total: \$619,406
Prin. Invest.: F ROSENBERGER
Tech. Officer: MSFC/C R TALLEY, MSFC/J P DOWNEY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 8 1355 UNIV OF ALABAMA - HUNTSVILLE 1169
 RESEARCH "INFRARED SIGNATURES FOR MAMMALIAN CELLS IN CULTURE"
 06/26/1997 - 11/30/2001 FY01: \$0 Total: \$437,984
Prin. Invest.: K CHITTUR
Tech. Officer: JSC/N PELLIS
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1403 UNIV OF ALABAMA - HUNTSVILLE 1170
 THEORETICAL ANALYSIS FOR CONSTRUCTION OF A NON- GRAVITY
 LABORATORY ON ORBIT
 08/28/1997 - 12/31/2001 FY01: \$1,003 Total: \$86,000
Prin. Invest.: L SMALLEY
Tech. Officer: MSFC/J CAMPBELL
CASE Category: 12 - CHEMISTRY

NAG 8 1456 UNIV OF ALABAMA - HUNTSVILLE 1171
 GROUND BASED EXPERIMENTS IN SUPPORT OF MICRO- GRAVITY
 RESEARCH RESULTS VAPOR GROWTH OF ORGANIC
 03/31/1998 - 01/31/2002 FY01: \$85,500 Total: \$322,500
Prin. Invest.: M T ZUGRAV
Tech. Officer: MSFC/P M DOTY
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 8 1464 UNIV OF ALABAMA - HUNTSVILLE 1172
 REDUCTION OF CONVECTION IN CLOSED TUBE VAPOR GROWTH EXPERI-
 MENTS
 03/24/1998 - 01/31/2002 FY01: \$0 Total: \$200,000
Prin. Invest.: R J NAUMANN
Tech. Officer: MSFC/P M DOTY
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 8 1476 UNIV OF ALABAMA - HUNTSVILLE 1173
 THERMOPHYSICAL PROPERTY MEASUREMENTS OF TE-BASED II-VI SEMI-
 CONDUCTOR COMPOUNDS
 03/26/1998 - 09/30/2001 FY01: \$192,685 Total: \$637,935
Prin. Invest.: M BANISH
Tech. Officer: MSFC/S SPEARMAN
CASE Category: 56 - MEDICL

NAG 8 1548 **UNIV OF ALABAMA - HUNTSVILLE** **1174**
 STUDY OF INSPECTION OF CRITICAL SURFACES AND AEROSPACE SYSTEMS
 09/24/1998 - 12/04/2002 FY01: \$19,884 Total: \$151,884
Prin. Invest.: G WORKMAN
Tech. Officer: MSFC/S RUSSELL
CASE Category: 41 - AERONAUTICAL ENGR

NAG 8 1577 **UNIV OF ALABAMA - HUNTSVILLE** **1175**
 CONTROL OF TRANSPORT IN PROTEIN CRYSTAL USING RESTRICTIVE GEOMETRIES
 12/16/1998 - 11/30/2002 FY01: \$29,451 Total: \$251,450
Prin. Invest.: R J NAVMANN
Tech. Officer: MSFC/B GUYNES
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 8 1598 **UNIV OF ALABAMA - HUNTSVILLE** **1176**
 R/S SUPPORT OF G LIMIT FOR ISOLATION OF SPACE SCIENCE EXPERIMENTS
 12/28/1998 - 12/31/2000 FY01: -\$1,372 Total: \$92,868
Prin. Invest.: R D HAMPTON
Tech. Officer: MSFC/D C ALHORN
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 8 1786 **UNIV OF ALABAMA - HUNTSVILLE** **1177**
 2001 SUMMER FACULTY FELLOWSHIP PROGRAM
 04/25/2001 - 04/24/2002 FY01: \$771,141 Total: \$771,141
Prin. Invest.: G KARR, M FREEMAN
Tech. Officer: MSFC/J R PRUITT
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1787 **UNIV OF ALABAMA - HUNTSVILLE** **1178**
 IMPROVED RE-CONFIGURABLE SLIDING MODE CONTROLLER FOR REUSABLE LAUNCH VEHICLE OF SECOND GENERATION
 01/24/2001 - 11/30/2001 FY01: \$31,378 Total: \$31,378
Prin. Invest.: Y B SHTESSEL
Tech. Officer: MSFC/K MCCALL
CASE Category: 45 - ELECTRICAL ENGR

NAG 8 1790 **UNIV OF ALABAMA - HUNTSVILLE** **1179**
 R/S ENTITLED, "EFFECTS OF CONVECTIVE TRANSPORT OF SOLUTE IMPURITIES ON DEFECT-CAUSING KINETICS..."
 02/14/2001 - 01/31/2003 FY01: \$266,000 Total: \$266,000
Prin. Invest.: P G VEKLOV
Tech. Officer: MSFC/H K HIGGINBOTHAM
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 8 1815 **UNIV OF ALABAMA - HUNTSVILLE** **1180**
 OPTICAL AMPLIFIER BASED SPACE SOLAR POWER SYSTEMS
 05/08/2001 - 11/07/2001 FY01: \$24,998 Total: \$24,998
Prin. Invest.: R FORK
Tech. Officer: MSFC/G W JOHNSON
CASE Category: 41 - AERONAUTICAL ENGR

NAG 8 1816 **UNIV OF ALABAMA - HUNTSVILLE** **1181**
 MACROMOLECULE NUCLEATION AND GROWTH RATE DISPERSION STUDIES
 05/10/2001 - 12/31/2002 FY01: \$152,527 Total: \$152,527
Prin. Invest.: R JUDGE
Tech. Officer: MSFC/H K HIGGINBOTHAM
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1850 **UNIV OF ALABAMA - HUNTSVILLE** **1182**
 NON-EQUILIBRIUM THERMODYNAMICS OF HGZNTZ MELTS
 09/10/2001 - 12/31/2001 FY01: \$15,000 Total: \$15,000
Prin. Invest.: J BAIRD
Tech. Officer: MSFC/C H SU
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAS 1 98131 **UNIV OF ALABAMA - HUNTSVILLE** **1183**
 CLOUDS AND THE EARTH'S RADIANT ENERGY SYSTEM SCIENTIFIC INVESTIGATIONS
 11/01/1998 - 10/27/2001 FY01: \$257,611 Total: \$772,819
Prin. Invest.: R WELCH
Tech. Officer: LARC/B A WIELICKI
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAS 2 00102 **UNIV OF ALABAMA - HUNTSVILLE** **1184**
 REFINEMENT AND TESTING OF AN XML BASED SENSOR MODEL LANGUAGE
 11/20/2000 - 11/19/2002 FY01: \$312,648 Total: \$312,648
Prin. Invest.: M BOTTS, A COOK
Tech. Officer: ARC/S LAU, ARC/R CARVALHO
CASE Category: 22 - COMPUTER SCIENCE

NAS 2 01003 **UNIV OF ALABAMA - HUNTSVILLE** **1185**
 AIST PROGRAM RESEARCH PROJECT ENTITLED: "EVE: AN ENVIRONMENT FOR ON-BOARD PROCESSING"
 12/18/2000 - 12/18/2003 FY01: \$746,414 Total: \$746,414
Prin. Invest.: S GRAVES
Tech. Officer: ARC/S LAU, ARC/R CARVALHO
CASE Category: 22 - COMPUTER SCIENCE

NAS 5 31718 **UNIV OF ALABAMA - HUNTSVILLE** **1186**
 EOS ASTER/HIRIS INVESTIGATION
 01/09/1992 - 12/14/2001 FY01: \$169,408 Total: \$1,784,661
Prin. Invest.: R WELCH
Tech. Officer: GSFC/T BRAKE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAS 5 99179 **UNIV OF ALABAMA - HUNTSVILLE** **1187**
 DEVELOPMENT OF HDF-EOS SUBSETTER SOFTWARE FOR ESDIS.
 02/12/1999 - 12/31/2000 FY01: \$0 Total: \$453,628
Prin. Invest.: M SUMMERLIN
Tech. Officer: GSFC/R E HARBAUGH
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAS 8 00118 **UNIV OF ALABAMA - HUNTSVILLE** **1188**
 THE ADJUSTABLE FOCUS OPTICAL CORRECTION LENS
 05/10/2000 - 05/09/2001 FY01: \$0 Total: \$205,000
Prin. Invest.: B PETERS
Tech. Officer: MSFC/J RAKOCZY, MSFC/W BRANTLY
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAS 8 00180 **UNIV OF ALABAMA - HUNTSVILLE** **1189**
 INTERNATIONAL SPACE STATION PROGRAM INDEPENDENT DATABASE ASSESSMENT
 08/01/2000 - 07/31/2001 FY01: \$125,000 Total: \$185,000
Prin. Invest.: S J GRAVES
Tech. Officer: MSFC/G HULLETT-SMITH, MSFC/G A WOOD
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAS 8 98226 UNIV OF ALABAMA - HUNTSVILLE 1190
 THE DESIGN AND DEVELOPMENT OF THE ORBITAL ARRAY OF WIDE ANGLE
 LENSES MISSION OPTICAL SYSTEM
 07/01/1998 - 09/30/2001 FY01: \$0 Total: \$845,000
Prin. Invest.: Y TAKAHASHI
Tech. Officer: MSFC/M WATSON
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 165 UNIV OF ALABAMA - HUNTSVILLE 1191
 TO SUPPORT RESEARCH ACTIVITIES UNDER THE NASA EXPE STIMULATE
 COMPETITIVE RESEARCH (EPSCOR)
 11/02/1996 - 02/28/2002 FY01: \$0 Total: \$2,269,998
Prin. Invest.: J C GREGORY *Prin. Invest.:* NONE
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 391 UNIV OF ALABAMA - HUNTSVILLE 1192
 NASA EPSCOR: PREPARATORY GRANT PROPOSAL
 05/13/1999 - 02/28/2002 FY01: \$0 Total: \$450,000
Prin. Invest.: J GREGORY
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 580 UNIV OF ALABAMA - HUNTSVILLE 1193
 ALABAMA NASA EPSCOR PROGRAM
 08/22/2001 - 07/31/2004 FY01: \$316,814 Total: \$316,814
Prin. Invest.: J C GREGORY
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 8 65 UNIV OF ALABAMA - HUNTSVILLE 1194
 RESEARCH & APPLIED TECHNOLOGY & DEVELOPMENT OF FUTURE
 PROGRAMS
 02/15/1995 - 08/21/2000 FY01: \$56,017 Total: \$13,377,794
Prin. Invest.: S T WU
Tech. Officer: MSFC/U URBAN, MSFC/G J FISHMAN
CASE Category: 13 - PHYSICS

NCC 8 97 UNIV OF ALABAMA - HUNTSVILLE 1195
 SPACE AND GROUND BASED CRYSTAL GROWTH USING MAGNETICALLY
 COUPLED BAFFLE
 06/13/1996 - 09/29/2002 FY01: \$200,000 Total: \$796,247
Prin. Invest.: A G OSTROGORSKY
Tech. Officer: MSFC/D SCHAEFER
CASE Category: 11 - ASTRONOMY

NCC 8 99 UNIV OF ALABAMA - HUNTSVILLE 1196
 SELF-DIFFUSION IN LIQUID ELEMENTS
 05/24/1996 - 12/31/2001 FY01: \$214,000 Total: \$1,596,612
Prin. Invest.: F ROSENBERGER
Tech. Officer: MSFC/S SPEARMAN
CASE Category: 59 - LIFE SCIENCE, OTHER

NCC 8 132 UNIV OF ALABAMA - HUNTSVILLE 1197
 FOR RESEARCH: "CONSORTIUM FOR MATERIALS DEVELOP- MEFNT IN
 SPACE."
 01/29/1997 - 10/31/2001 FY01: \$2,586,964 Total: \$9,142,072
Prin. Invest.: G WORKMAN
Tech. Officer: MSFC/J PRESSON
CASE Category: 49 - ENGINEERING, OTHER

NCC 8 141 UNIV OF ALABAMA - HUNTSVILLE 1198
 GLOBAL CHANGE RESEARCH RELATED TO THE EARTH'S ENERGY AND
 HYDROLOGY CYCLE
 09/22/1997 - 09/29/2002 FY01: \$23,308 Total: \$14,595,288
Prin. Invest.: R MCNIDER
Tech. Officer: MSFC/R GREENWOOD, MSFC/J SIMON
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 8 146 UNIV OF ALABAMA - HUNTSVILLE 1199
 R/S INVESTIGATION OF SPACE BASED SOLID STATE COHERENT LIDAR
 UNDER DR. FARZIN AMZAJERDIAN
 10/02/1997 - 11/30/2001 FY01: \$0 Total: \$1,289,919
Prin. Invest.: J DIMMOCK
Tech. Officer: MSFC/S C JOHNSON, MSFC/B F JONES
CASE Category: 49 - ENGINEERING, OTHER

NCC 8 178 UNIV OF ALABAMA - HUNTSVILLE 1200
 SUPPORT FOR THE NEW ACCOUNTING SYSTEM, SPECIFIC- ALLY THE
 INTEGRATED FINANCIALMANAGEMENT SYSTEM.
 04/05/1999 - 09/30/2000 FY01: -\$2,170 Total: \$249,600
Prin. Invest.: W MORSE
Tech. Officer: MSFC/F MAYHALL
CASE Category: 29 - MATH/COMPUTERSCI, OTHER

NCC 8 180 UNIV OF ALABAMA - HUNTSVILLE 1201
 INTERNATIONAL SPACE STATION MICROGRAVITY DATA AND INFORMATION
 SYSTEMS
 03/19/1999 - 02/28/2002 FY01: \$56,520 Total: \$384,520
Prin. Invest.: S J GRAVES
Tech. Officer: MSFC/C C LAPENTA
CASE Category: 42 - ASTRONAUTICAL ENGR

NCC 8 200 UNIV OF ALABAMA - HUNTSVILLE 1202
 RESEARCH AND DEVELOPMENT
 08/10/2000 - 08/09/2005 FY01: \$19,062,523 Total: \$30,330,921
Prin. Invest.: L R GREENWOOD, B J SCHROER, T D SHURTZ
Tech. Officer: MSFC/S COLEMAN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 8 203 UNIV OF ALABAMA - HUNTSVILLE 1203
 INVESTIGATION OF INTER-AND INTRA-MOLECULAR INTER- ACTIONS OF
 RECOMBINANT CANAVALIN /E. COLI
 07/20/2000 - 06/30/2002 FY01: \$0 Total: \$77,337
Prin. Invest.: J D NG
Tech. Officer: MSFC/M L PUSEY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NCC 8 205 UNIV OF ALABAMA - HUNTSVILLE 1204
 STRUCTURAL FLUCTUATIONS & THERMOPHYSICAL PROPER- TIES OF
 MOLTEN II - IV COMPOUNDS
 09/08/2000 - 11/30/2003 FY01: \$0 Total: \$22,730
Prin. Invest.: S FETH
Tech. Officer: MSFC/P DOTY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NCC 8 207 UNIV OF ALABAMA - HUNTSVILLE 1205
 MECHANIZATIONS FOR THE CRYSTALLIZATION OF ZBLAN
 07/24/2000 - 11/30/2003 FY01: \$27,716 Total: \$44,603
Prin. Invest.: W KINKLER
Tech. Officer: MSFC/E ETHRIDGE
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NCC 8 209 UNIV OF ALABAMA - HUNTSVILLE 1206
 THEORETICAL INVESTIGATION OF ULTRASONIC PROCESSING FOR
 DIRECTIONAL SOLIDIFICATION OF HYPERMOTECTIC
 12/01/2000 - 09/30/2001 FY01: \$25,000 Total: \$25,000
Prin. Invest.: A FEDOSEYEV
Tech. Officer: MSFC/R N GRUGEL
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NCC 8 213 UNIV OF ALABAMA - HUNTSVILLE 1207
 STUDENT LAUNCH INITIATIVE
 03/23/2001 - 12/31/2001 FY01: \$50,000 Total: \$50,000
Prin. Invest.: C R KARR
Tech. Officer: MSFC/J R PRUITT
CASE Category: 41 - AERONAUTICAL ENGR

NCC 9 109 UNIV OF ALABAMA - HUNTSVILLE 1208
 COOPERATIVE AGREEMENT
 06/22/2000 - 07/01/2001 FY01: \$0 Total: \$22,000
Prin. Invest.: J RUPERT
Tech. Officer: JSC/N QQURASHI, JSC/D SICKOREZ
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 2 52283 UNIV OF ALABAMA - HUNTSVILLE 1209
 EMBRYO DEVELOPMENT & HATCHING BEHAVIOR IN BOBWHITE &
 COTUNIX QUAIL EXPOSED TO EARTH'S GRAVITY & HYP
 08/09/2001 - 07/31/2002 FY01: \$20,650 Total: \$20,650
Prin. Invest.: R F EATON
Tech. Officer: ARC/A E RONCA, ARC/E HOTTON
CASE Category: 51 - BIOLOGY(EXCLUDING ENVIR)

NGT 5 30168 UNIV OF ALABAMA - HUNTSVILLE 1210
 IMPACT OF AEROSOLS ON THE CLEAR SKY SHORTWAVE RADIATIVE
 FLUXES OVERBIOMASS BURNING REGIONS IN
 09/01/1998 - 08/31/2000 FY01: -\$139 Total: \$43,861
Prin. Invest.: D M WELCH, ZHANG
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTALSCI, OTHER

NGT 5 40018 UNIV OF ALABAMA - HUNTSVILLE 1211
 TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE
 AND FELLOWSHIP PROGRAM.
 01/09/1997 - 01/31/2001 FY01: \$30,836 Total: \$1,983,762
Prin. Invest.: J GREGORY
Tech. Officer: GSFC/D E DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40077 UNIV OF ALABAMA - HUNTSVILLE 1212
 ALABAMA SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
 02/09/2001 - 01/31/2002 FY01: \$561,875 Total: \$561,875
Prin. Invest.: J C GREGORY
Tech. Officer: GSFC/D D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50163 UNIV OF ALABAMA - HUNTSVILLE 1213
 AN EMPIRICAL MODEL OF CORONAL HEATING DEDUCED FROM SOHO
 OBSERVATIONS OF TRANSITION REGION DYNAMICS
 06/02/1998 - 07/31/2001 FY01: \$0 Total: \$44,000
Prin. Invest.: E EMSLIE
Tech. Officer: HQ/A NURRIDIN
CASE Category: 13 - PHYSICS

NGT 8 52863 UNIV OF ALABAMA - HUNTSVILLE 1214
 DETERMINATION OF H FROM THE INTERFEROMETRIC OBSERVATIONS OF
 THE SUNYAEV-DEL DOVICH EFFECT
 07/24/1998 - 06/22/2001 FY01: -\$13,136 Total: \$52,864
Prin. Invest.: J V PARADIJS
Tech. Officer: MSFC/J F DOWDY
CASE Category: 13 - PHYSICS

NGT 8 52874 UNIV OF ALABAMA - HUNTSVILLE 1215
 1999 SUMMER FACULTY FELLOWSHIP PROGRAM
 04/12/1999 - 06/30/2001 FY01: \$0 Total: \$867,809
Prin. Invest.: G R KARR
Tech. Officer: MSFC/J F DOWDY
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 8 52878 UNIV OF ALABAMA - HUNTSVILLE 1216
 ION CYCLOTRON RESONANCE HEATING OF A PLASMA BY HELICON WAVES
 FOR THE GASDYNAMICMIRROR FUSION...
 08/31/1999 - 08/11/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: C HAWK
Tech. Officer: MSFC/J DOWDY
CASE Category: 46 - MECHANICAL ENGR

NGT 8 52882 UNIV OF ALABAMA - HUNTSVILLE 1217
 GRADUATE STUDENT RESEARCH PROGRAM "OPTIMIZATION OF A
 MAGNETIC MIRROR FUSION REACTOR FOR SPACE PROPUL
 09/15/1999 - 08/14/2001 FY01: \$22,000 Total: \$66,000
Prin. Invest.: S WU
Tech. Officer: MSFC/J DOWDY
CASE Category: 41 - AERONAUTICAL ENGR

NGT 8 52886 UNIV OF ALABAMA - HUNTSVILLE 1218
 DIFFRACTION LIMITED GRAZING INCIDENCE OPTICS
 05/17/2000 - 08/22/2003 FY01: \$22,000 Total: \$44,000
Prin. Invest.: W PACIESAS
Tech. Officer: MSFC/S NASH-STEVENSON
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NGT 8 52891 UNIV OF ALABAMA - HUNTSVILLE 1219
 INTERACTION OF EXPANDING PLASMA WITH A COMPRESSED MAGNETIC
 FIELD
 06/22/2000 - 07/31/2003 FY01: \$22,000 Total: \$44,000
Prin. Invest.: C HAWK
Tech. Officer: MSFC/S NASH-STEVENSON
CASE Category: 46 - MECHANICAL ENGR

NGT 8 52908 UNIV OF ALABAMA - HUNTSVILLE 1220
 CERAMIC MATRIX COMPOSITE DEV FOR SPACE TRANS APPLICATIONS
 05/25/2001 - 07/01/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: R CERRO
Tech. Officer: MSFC/S NASH-STEVENSON
CASE Category: 43 - CHEMICAL ENGR

NAG 2 1290 UNIV OF ALABAMA - UNIV 1221
 AUTOMATED MINING OF AVIATION ACCIDENT DATABASES USING CARE
 TECHNOLOGY
 02/01/1999 - 12/31/2000 FY01: -\$6,894 Total: \$112,212
Prin. Invest.: D B BROWN, A S PARRISH, B D DIXON
Tech. Officer: ARC/I C STATLER
CASE Category: 41 - AERONAUTICAL ENGR

NAG 2 1499 **UNIV OF ALABAMA - UNIV** **1222**
 CATECHOLAMINE REGULATION AND RESPONSE TO ENVIRONMENTAL
 CHANGE IN DROSOPHILA MELANOGASTER
 07/11/2001 - 06/30/2002 FY01: \$107,541 Total: \$107,541
Prin. Invest.: J M O'DONNELL
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY(EXCLUDING ENVIR)

NAG 3 2004 **UNIV OF ALABAMA - UNIV** **1223**
 INTELLIGENT ENGINE CONTROL
 01/10/1997 - 09/30/2000 FY01: -\$2,005 Total: \$182,977
Prin. Invest.: K S KRISHNAKUMAR
Tech. Officer: GRC/J R SAUS
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 2574 **UNIV OF ALABAMA - UNIV** **1224**
 ABUNDANCE GRADIENTS IN INTRACLUSTER GAS
 04/12/1994 - 09/30/1999 FY01: -\$1 Total: \$73,908
Prin. Invest.: R E WHITE III
Tech. Officer: GSFC/N WHITE
CASE Category: 11 - ASTRONOMY

NAG 5 4346 **UNIV OF ALABAMA - UNIV** **1225**
 PROJECT NOVA
 05/01/1997 - 02/28/2001 FY01: \$0 Total: \$2,775,000
Prin. Invest.: M FREEMAN
Tech. Officer: HQ/D V GALLAWAY
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 6174 **UNIV OF ALABAMA - UNIV** **1226**
 NUMERICAL AND THEORETICAL STUDIES OF THE INITIATION OF THE CORONAL
 MASS EJECTIONS (CMES)
 08/05/1997 - 05/31/2000 FY01: -\$354 Total: \$186,104
Prin. Invest.: D WU
Tech. Officer: GSFC/W J WAGNER
CASE Category: 13 - PHYSICS

NAG 5 6314 **UNIV OF ALABAMA - UNIV** **1227**
 FAR-WING LINE SHAPE: APPLICATION TO THE VENUSIAN
 09/11/1997 - 09/30/2000 FY01: -\$38 Total: \$135,962
Prin. Invest.: D TIPPING
Tech. Officer: GSFC/S HOWARD
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 6934 **UNIV OF ALABAMA - UNIV** **1228**
 ASCA PROPOSAL - A SEARCH FOR HOT GAS IN MERGING CLUSTERS
 01/30/1998 - 01/14/2000 FY01: -\$2,509 Total: \$23,491
Prin. Invest.: R E WHITE, II
Tech. Officer: GSFC/N WHITE
CASE Category: 11 - ASTRONOMY

NAG 5 7702 **UNIV OF ALABAMA - UNIV** **1229**
 ESTIMATE THE INDIRECT AEROSOL EFFECT AND RETRIEVAL OF RELATED
 PARAMETERS FROM SATELLITE MEASUREMENT
 09/23/1998 - 09/30/2001 FY01: \$71,000 Total: \$228,407
Prin. Invest.: Q HAN
Tech. Officer: GSFC/M MISHCHENKO
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 8269 **UNIV OF ALABAMA - UNIV** **1230**
 THEORETICAL CALCULATION OF CO2 FAR-WING LINE SHAPE S
 02/25/1999 - 12/31/2001 FY01: \$0 Total: \$123,700
Prin. Invest.: R H TIPPING
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8407 **UNIV OF ALABAMA - UNIV** **1231**
 MODELING AND COMPARISON OF FE + OPTICAL BALMER LINES (LTS 98)
 03/15/1999 - 03/14/2001 FY01: \$0 Total: \$3,145
Prin. Invest.: J W SULENTIC
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8959 **UNIV OF ALABAMA - UNIV** **1232**
 NEARBY GALAXIES IN THE FAR-UV: TOWARD COMPARISON WITH HIGH-
 REDSHIFT GALAXIES -FUZE
 01/24/2000 - 01/31/2003 FY01: \$0 Total: \$29,600
Prin. Invest.: W C KEEL
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 9388 **UNIV OF ALABAMA - UNIV** **1233**
 THE PROJECT NOVA CONSORTIUM
 04/10/2000 - 03/31/2002 FY01: \$1,047,690 Total: \$2,092,690
Prin. Invest.: L FREEMAN
Tech. Officer: GSFC/M PHELPS
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9855 **UNIV OF ALABAMA - UNIV** **1234**
 TO EXPAND AND CONTINUE TO DISSEMINATE A HIGHER EDUCATION
 MODEL FOR CREATING IMPRE-SERVICE EDUCATION
 08/07/2000 - 07/31/2001 FY01: \$0 Total: \$118,581
Prin. Invest.: M FREEMAN
Tech. Officer: GSFC/J HARRINGTON
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10914 **UNIV OF ALABAMA - UNIV** **1235**
 INVESTIGATING THE INTERACTION-STARBURST CONNECTION (ADP 2000)
 05/18/2001 - 04/30/2002 FY01: \$37,396 Total: \$37,396
Prin. Invest.: J W SULENTIC
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 11204 **UNIV OF ALABAMA - UNIV** **1236**
 SHOCKS IN GROUPS
 08/08/2001 - 08/14/2002 FY01: \$8,700 Total: \$8,700
Prin. Invest.: J W SULENTIC
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 8 1422 **UNIV OF ALABAMA - UNIV** **1237**
 MULTIPLE YEAR GRANT FOR THE PURPOSE OF AEROELASTICITY - CITY IN
 MULTIDISCIPLINARY ANALYSIS AND DESIGN
 10/28/1997 - 08/31/2000 FY01: -\$10,919 Total: \$95,026
Prin. Invest.: T ZEILER, N D HENDRIX
Tech. Officer: MSFC/C DILL
CASE Category: 41 - AERONAUTICAL ENGR

NAG 8 1724 **UNIV OF ALABAMA - UNIV** **1238**
 "2000 SUMMER FACULTY FELLOWSHIP PROGRAM"
 06/22/2000 - 03/30/2002 FY01: \$18,500 Total: \$733,392
Prin. Invest.: L M FREEMAN
Tech. Officer: MSFC/J R PRUITT
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1753 **UNIV OF ALABAMA - UNIV** **1239**
 RESEARCH THE APPLICATIONS THAT RESULTED IN SUCCESSFUL
 PROJECT MANAGEMENT IN INDUSTRY.
 11/28/2000 - 09/29/2001 FY01: \$67,514 Total: \$67,514
Prin. Invest.: P S RAY
Tech. Officer: MSFC/A DUARTE
CASE Category: 49 - ENGINEERING, OTHER

NAG 9 1419 **UNIV OF ALABAMA - UNIV** **1240**
 DESIGN OF AN INTERGRATED HYBRID SYSTEM
 08/17/2000 - 08/17/2001 FY01: \$0 Total: \$99,999
Prin. Invest.: G P, P S ROY, D J FONSECA
Tech. Officer: JSC/F Y KUO
CASE Category: 49 - ENGINEERING, OTHER

NAG10 305 **UNIV OF ALABAMA - UNIV** **1241**
 EVALUATION OF IONIC LIQUIDS FOR USE IN A PROPOSED LOW TEMPERA-
 TURE ELECTROLYSIS CELL FOR THE PROCESSI
 08/27/2001 - 08/31/2002 FY01: \$24,980 Total: \$24,980
Prin. Invest.: R D ROGERS
Tech. Officer: KSC/D E LUECK
CASE Category: 12 - CHEMISTRY

NAS 8 00207 **UNIV OF ALABAMA - UNIV** **1242**
 PARTICLE ENGULFMENT AND PUSHING BY SOLIDIFYING INT ERFACES
 (PEP)
 10/03/2000 - 09/30/2001 FY01: \$243,000 Total: \$243,000
Prin. Invest.: D M STEFANESCU
Tech. Officer: MSFC/M PURVEY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAS 8 39715 **UNIV OF ALABAMA - UNIV** **1243**
 PARTICLE INGULFMENT AND PUSHING BY SOLIDIFYING INTE RFACES
 02/17/1993 - 09/29/2000 FY01: \$0 Total: \$1,236,938
Prin. Invest.: D M STEFANESCU, P A CURRERI, B K DHINDAW
Tech. Officer: MSFC/T DE LOACH
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NGT 4 52403 **UNIV OF ALABAMA - UNIV** **1244**
 GENETICS-BASED ADAPTIVE AGENTS FOR STRATEGY LEARNING IN
 AEROSPACE APPLICATIONS
 07/16/1996 - 08/01/2000 FY01: -\$1,623 Total: \$64,377
Prin. Invest.: R E SMITH
Tech. Officer: DFRC/K GUPTA
CASE Category: 41 - AERONAUTICAL ENGNR

NGT 5 50129 **UNIV OF ALABAMA - UNIV** **1245**
 DETERMINING LYMPHOCYTE RESPONSIVENESS TO LOW GRAVI
 09/09/1997 - 06/30/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: M L LEWIS
Tech. Officer: HQ/A NURRIDIN
CASE Category: 41 - AERONAUTICAL ENGNR

NAG 5 9085 **UNIV OF NORTH ALABAMA** **1246**
 EARTH SYS SCIENCE ON-LINE COURSE: ON OPPURTUNITY IN
 GEOGRAPHY EDUCATION
 02/17/2000 - 01/31/2002 FY01: \$32,502 Total: \$65,076
Prin. Invest.: W R STRONG
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 8 1397 **UNIV OF SOUTH ALABAMA** **1247**
 R/S "DEVELOPMENT OF COUNTERMEASURES & EXERCISE PROTOCOLS
 TO REDUCE THE EFFECT OF MICROGRAVITY
 07/23/1997 - 08/31/2000 FY01: -\$225 Total: \$37,689
Prin. Invest.: P KULKARNI
Tech. Officer: MSFC/J F DOWDY, MSFC/J R PRUITT
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 9 1282 **UNIV OF SOUTH ALABAMA** **1248**
 MATHEMATICAL MODELING OF FOOD SUPPLY FOR LONG TERM SPACE
 MISSIONS USING LIFE SUPPORT
 02/12/2001 - 05/15/2001 FY01: \$12,228 Total: \$12,228
Prin. Invest.: J CRUTHIRDS
Tech. Officer: JSC/V L KLOERIS
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NCC 8 161 **UNIV OF SOUTH ALABAMA** **1249**
 REGIONAL/INTERNATIONAL CHANGE ASSESSMENT STRATEGIES,
 RESEARCH AND TECHNOLOGY
 01/19/1999 - 01/18/2004 FY01: \$80,000 Total: \$113,105
Prin. Invest.: M CARPENTER
Tech. Officer: MSFC/R ARNOLD
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 8 52896 **UNIV OF SOUTH ALABAMA** **1250**
 STRUCTURE DETERMINATION OF PP5, A SENSOR OF CELL CYCLE
 CONTROL CHECKPOINTS AND A PROGNOSTIC INDICAT
 05/25/2001 - 07/01/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: R HONKANEN
Tech. Officer: MSFC/S NASH-STEVENSON
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

ALASKA

NAG 5 4068 **UNIV OF ALASKA - FAIRBANKS** **1251**
 SAR, INTEREROMETRY, AND GACIER DYNAMICS IN NW NORT
 03/20/1997 - 02/28/2000 FY01: -\$545 Total: \$188,835
Prin. Invest.: C LINGLE
Tech. Officer: GSFC/S H GOGINENI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 4170 **UNIV OF ALASKA - FAIRBANKS** **1252**
 CLIMATE SENSITIVITY OF THAW LAKE SYSTEMS
 03/27/1997 - 12/31/2000 FY01: \$0 Total: \$113,343
Prin. Invest.: D JEFFRIES
Tech. Officer: GSFC/R H THOMAS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

<p>NAG 5 4269 UNIV OF ALASKA - FAIRBANKS 1253 UNIQUE SIMULTANEOUS OBSERVATIONS OF THE CONJUGATE HEMI- SPHERES WITH THE DYNAMICS EXPLORER AND VIKING 03/25/1997 - 12/31/2001 FY01: \$0 Total: \$99,987 <i>Prin. Invest.:</i> D D CRAVEN <i>Tech. Officer:</i> GSFC/D EVANS <i>CASE Category:</i> 13 - PHYSICS</p>	<p>NAG 5 6338 UNIV OF ALASKA - FAIRBANKS 1261 VALIDATION OF MODIS SNOW & SEA ICE PRODUCTS IN THE SOUTHERN OCEAN 10/02/1997 - 03/31/2002 FY01: \$82,221 Total: \$468,742 <i>Prin. Invest.:</i> S LI <i>Tech. Officer:</i> GSFC/D O STARR <i>CASE Category:</i> 19 - PHYSICAL SCIENCE, OTHER</p>
<p>NAG 5 4981 UNIV OF ALASKA - FAIRBANKS 1254 ELEVATION CHANGES, INTERANNUAL VARIABILITY, AND AN DYNAMICS FROM ERS, GEOSTAT AND SEASAT RADA ALTIME 07/18/1997 - 07/14/2000 FY01: \$0 Total: \$193,055 <i>Prin. Invest.:</i> C S LINGLE <i>Tech. Officer:</i> GSFC/S GOGINENI <i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE</p>	<p>NAG 5 6976 UNIV OF ALASKA - FAIRBANKS 1262 COMBINED EFFECTS OF PHOTOELECTRONS, FIELD-ALIGNED CURRENTS, PRECIPITATION, THEPONDEROMOTIVE AND 03/31/1998 - 05/31/2001 FY01: -\$67,084 Total: \$145,021 <i>Prin. Invest.:</i> G V KHAZANOV <i>Tech. Officer:</i> GSFC/M MELLOTT <i>CASE Category:</i> 11 - ASTRONOMY</p>
<p>NAG 5 5125 UNIV OF ALASKA - FAIRBANKS 1255 GROUND AND BALLOON-BORNE OBSERVATIONS OF RED SPRITES AND BLUE JETS 07/02/1997 - 01/31/2002 FY01: \$0 Total: \$343,690 <i>Prin. Invest.:</i> E WESTCOTT <i>Tech. Officer:</i> GSFC/H NEEDLEMAN <i>CASE Category:</i> 13 - PHYSICS</p>	<p>NAG 5 7299 UNIV OF ALASKA - FAIRBANKS 1263 RADARSAT IN SUPPORT OF THE ANTARCTIC COASTAL POLYN YA PILOT STUDY 04/24/1998 - 03/31/2001 FY01: \$0 Total: \$40,493 <i>Prin. Invest.:</i> M O JEFFRIES <i>Tech. Officer:</i> GSFC/S GOGINENI <i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER</p>
<p>NAG 5 5153 UNIV OF ALASKA - FAIRBANKS 1256 AURORAL AIRCRAFT OBSERVATIONS CONJUGATE TO FAST FUNDING FOR BASIC GRANT 01/14/1998 - 10/31/2000 FY01: -\$60 Total: \$342,061 <i>Prin. Invest.:</i> H NIELSEN <i>Tech. Officer:</i> GSFC/W JOHNSON <i>CASE Category:</i> 13 - PHYSICS</p>	<p>NAG 5 7507 UNIV OF ALASKA - FAIRBANKS 1264 JERS-1 NORTH AMERICAN BOREAL FOREST MAPPING STUDY TASK PLAN UAFCOMPONENT 06/26/1998 - 06/30/2001 FY01: \$18,500 Total: \$150,000 <i>Prin. Invest.:</i> C L WILLIAMS <i>Tech. Officer:</i> GSFC/D WICKLAND <i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER</p>
<p>NAG 5 5218 UNIV OF ALASKA - FAIRBANKS 1257 CODA: COUPLING OF DYNAMICS AND AURORA-A CO- INVESTIGATION PROPOSAL WITH AEROSPACE PI COLLINS 01/15/1999 - 01/14/2002 FY01: \$15,470 Total: \$29,267 <i>Prin. Invest.:</i> COLLINS <i>Tech. Officer:</i> GSFC/W JOHNSON <i>CASE Category:</i> 13 - PHYSICS</p>	<p>NAG 5 7603 UNIV OF ALASKA - FAIRBANKS 1265 THE INFLUENCE OF PROPAGATING EDDIES ON THE ENVIRONMENT OF THE CONTINENTAL SHELF IN THE NORTHERN G 07/21/1998 - 07/31/2002 FY01: \$28,952 Total: \$71,973 <i>Prin. Invest.:</i> S R OKKONEN <i>Tech. Officer:</i> GSFC/E LINDSTROM <i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER</p>
<p>NAG 5 5243 UNIV OF ALASKA - FAIRBANKS 1258 FIRST YEAR OF A TWO YEAR EFFORT NAG5-5243 PI DR. RICHARD COLLINS 03/29/1999 - 03/31/2002 FY01: \$0 Total: \$38,624 <i>Prin. Invest.:</i> R COLLINS <i>Tech. Officer:</i> GSFC/W B JOHNSON <i>CASE Category:</i> 13 - PHYSICS</p>	<p>NAG 5 7659 UNIV OF ALASKA - FAIRBANKS 1266 'SPACE GEODETIC CASE STUDIES OF RECENT VOLCANIC EVENTS IN ALASKA'SENH98-0028 09/09/1998 - 08/31/2002 FY01: \$40,000 Total: \$240,000 <i>Prin. Invest.:</i> J T FREYMUELLER <i>Tech. Officer:</i> GSFC/H V FREY <i>CASE Category:</i> 32 - GEOLOGICAL SCIENCE</p>
<p>NAG 5 5316 UNIV OF ALASKA - FAIRBANKS 1259 MAPPING THE E-REGION VERTICAL AND ZONAL WINDS NEAR A STABLE AURORAL ARC USING A NEAR HORIZONTAL 02/14/2001 - 02/11/2004 FY01: \$215,855 Total: \$215,855 <i>Prin. Invest.:</i> M CONDE <i>Tech. Officer:</i> GSFC/J C BRINTON <i>CASE Category:</i> 13 - PHYSICS</p>	<p>NAG 5 7683 UNIV OF ALASKA - FAIRBANKS 1267 MODELING OF THE ATMOSPHERE-MAGNETOSPHERE-IONOSPHERE SYSTEM: BASELINEEFFORT 09/15/1998 - 09/30/2001 FY01: \$0 Total: \$335,010 <i>Prin. Invest.:</i> M H REES <i>Tech. Officer:</i> GSFC/S A CURTIS <i>CASE Category:</i> 13 - PHYSICS</p>
<p>NAG 5 6275 UNIV OF ALASKA - FAIRBANKS 1260 THE ROLE OF LAND-COVER CHANGE IN HIGH LATITUDE ECO FOR THE GLOBAL CARBON CYCLE 08/27/1997 - 08/31/2001 FY01: \$0 Total: \$520,000 <i>Prin. Invest.:</i> D MCGUIRE <i>Tech. Officer:</i> GSFC/A JANETOS <i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER</p>	<p>NAG 5 7799 UNIV OF ALASKA - FAIRBANKS 1268 A STUDY OF THE INSTANTANEOUS DISTRIBUTION OF BIRKLAND CURRENTS USING POLAR UVI,SUPERDARN, IMP8 12/17/1998 - 09/30/2001 FY01: \$92,260 Total: \$275,081 <i>Prin. Invest.:</i> W A BRISTOW <i>Tech. Officer:</i> GSFC/L ZANETTI <i>CASE Category:</i> 11 - ASTRONOMY</p>

NAG 5 8042 UNIV OF ALASKA - FAIRBANKS 1269
 THERMOSPHERIC NEUTRAL WIND RESPONSE TO THE AURORA AT HIGH
 RESOLUTION; SIMULTANEOUS GROUND-BASED AN
 01/07/1999 - 09/30/2001 FY01: \$0 Total: \$58,510
Prin. Invest.: J D CRAVEN
Tech. Officer: GSFC/M H ACUNA
CASE Category: 13 - PHYSICS

NAG 5 8614 UNIV OF ALASKA - FAIRBANKS 1270
 APPLICATION OF SATELLITE SAR IMAGERY IN MAPPING THE ACTIVE
 LAYER OF ARCTIC PERMAFROST
 06/14/1999 - 06/30/2002 FY01: \$66,393 Total: \$186,618
Prin. Invest.: S LI
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8722 UNIV OF ALASKA - FAIRBANKS 1271
 RUSSIAN-US PARTNERSHIP TO STUDY THE 23-KM-DIAMETER EL'GY-
 GYTYN IMPACT CRATER, NORTHEAST RUSSIA
 08/25/1999 - 08/14/2002 FY01: \$24,000 Total: \$70,000
Prin. Invest.: V SHARPTON
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 9315 UNIV OF ALASKA - FAIRBANKS 1272
 MONITORING BOREAL LANDCOVER AND ECOSYSTEM DYNAMICS AT
 REGIONAL SCALES USING INTEGRATED SPACEBORNE
 03/28/2000 - 04/30/2001 FY01: \$11,000 Total: \$33,000
Prin. Invest.: C WILLIAMS
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9457 UNIV OF ALASKA - FAIRBANKS 1273
 PLASMA PROCESSES AT THE EARTH'S MAGNETOSPHERIC BOUNDARY
 AND CUSPS
 04/24/2000 - 04/30/2002 FY01: \$54,829 Total: \$109,729
Prin. Invest.: A OTTO
Tech. Officer: GSFC/J SHARBER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9513 UNIV OF ALASKA - FAIRBANKS 1274
 PHOTOTROPHIC ORGANISMS AT HYDROTHERMAL VENTS
 04/25/2000 - 04/30/2002 FY01: \$80,000 Total: \$160,000
Prin. Invest.: G PLUMLEY
Tech. Officer: GSFC/M MEYER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9859 UNIV OF ALASKA - FAIRBANKS 1275
 APPLICATION OF THE TERRESTRIAL ECOSYSTEM MODEL TO SIMULATE
 CARBON DYNAMICS OF THEBOREAS REGIO
 08/07/2000 - 08/31/2001 FY01: \$0 Total: \$25,000
Prin. Invest.: A D MCGUIRE
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9915 UNIV OF ALASKA - FAIRBANKS 1276
 RETROSPECTIVE ANALYSIS OF SEA ICE CONDITIONS IN THE BERING &
 CHUKCHI SEAS: 1973 TO 1983
 08/30/2000 - 08/31/2001 FY01: \$0 Total: \$20,447
Prin. Invest.: L MCNUTT
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10069 UNIV OF ALASKA - FAIRBANKS 1277
 CEDAR/TIMED: THERMOSPHERIC VERTICAL WIND OBSERVATI ONS FROM
 THREE SITES IN THE NORTHERN AURORAL ZON
 10/24/2000 - 02/28/2002 FY01: \$187,000 Total: \$187,000
Prin. Invest.: M CONDE
Tech. Officer: GSFC/M MELLOTT
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 11142 UNIV OF ALASKA - FAIRBANKS 1278
 THE ROLE OF LAND-COVER CHANGE IN HIGH LATITUDE ECO SYSTEMS:
 IMPLICATIONS FOR CARBON BUDGETS IN NORTH
 07/31/2001 - 07/31/2002 FY01: \$87,359 Total: \$87,359
Prin. Invest.: D MCGUIRE
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 11213 UNIV OF ALASKA - FAIRBANKS 1279
 PERIGLACIAL GEOMORPHOLOGY ANALYSES ON UTOPIA PLANI TIA
 08/13/2001 - 08/31/2002 FY01: \$40,000 Total: \$40,000
Prin. Invest.: K YOSHIKAWA
Tech. Officer: GSFC/J BOYCE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 11226 UNIV OF ALASKA - FAIRBANKS 1280
 INTERNATIONAL SYMPOSIUM ON FAST GLACIER FLOW
 08/13/2001 - 08/31/2002 FY01: \$20,000 Total: \$20,000
Prin. Invest.: C LINGLE
Tech. Officer: GSFC/W ABDALATI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 3 26401 UNIV OF ALASKA - FAIRBANKS 1281
 ACTS PROPAGATION EXPERIMENTS IN ALASKA
 05/24/1993 - 09/01/2000 FY01: \$24 Total: \$916,676
Prin. Invest.: C E MAYER
Tech. Officer: GRC/R J GUNDERMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAS 5 01074 UNIV OF ALASKA - FAIRBANKS 1282
 MAINTENANCE/MISSION SUPPORT AT POKER FLAT RESERACH RANGE.
 03/12/2001 - 03/11/2006 FY01: \$940,000 Total: \$940,000
Prin. Invest.: G W WALKER, R SHEFCHIK
Tech. Officer: GSFC/W F LAU
CASE Category: 49 - ENGINEERING, OTHER

NAS 5 32206 UNIV OF ALASKA - FAIRBANKS 1283
 MAINTENANCE/MISSION SUPPORT OF POKER FLAT RESEARCH RANGE
 10/31/1994 - 02/28/2001 FY01: \$251,098 Total: \$8,890,796
Prin. Invest.: S SCHWATAL
Tech. Officer: GSFC/M J FILLIS, GSFC/B J FLOWERS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAS 5 98129 UNIV OF ALASKA - FAIRBANKS 1284
 OPERATION & MANAGEMENT OF ALASKA SAR FACILITY
 03/30/1998 - 03/31/2003 FY01: \$10,943,305 Total: \$34,894,982
Prin. Invest.: N AVAILBLE
Tech. Officer: GSFC/P J ONDRUS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCA 5 112 UNIV OF ALASKA - FAIRBANKS 1285
 PROCESSING SYNTHETIC APERTURE RADAR DATA
 04/27/1988 - 02/28/2002 FY01: \$900,000 Total: \$22,045,886
Prin. Invest.: J MILLER, W F WEEKS, G WELLER
Tech. Officer: GSFC/G H TROFFORD
CASE Category: 11 - ASTRONOMY

NCC 5 379 UNIV OF ALASKA - FAIRBANKS 1286
 MODIS/SNOW MAPPING: IN-SITU MEASUREMENTS ON THE S ONW OF
 INTERIOR& ARCTICALASKA
 01/29/1999 - 09/30/2001 FY01: \$0 Total: \$30,000
Prin. Invest.: C S BENSON
Tech. Officer: GSFC/S K HALL
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30381 UNIV OF ALASKA - FAIRBANKS 1287
 GLACIAL UNLOADING: FORCINGS, RESPONSES & PROCESSES /CHRIS-
 TOPHER LARSEN
 08/13/2001 - 08/31/2004 FY01: \$21,984 Total: \$21,984
Prin. Invest.: J FREYMUELLER
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40014 UNIV OF ALASKA - FAIRBANKS 1288
 TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE
 AND FELLOWSHIP PROGRAM
 02/10/1997 - 02/28/2001 FY01: -\$10,953 Total: \$796,547
Prin. Invest.: J G HAWKINS
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40100 UNIV OF ALASKA - FAIRBANKS 1289
 ALASKA SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
 02/28/2001 - 02/28/2002 FY01: \$223,453 Total: \$223,453
Prin. Invest.: J G HAWKINS
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50191 UNIV OF ALASKA - FAIRBANKS 1290
 TIME-DEPENDENT TRANSPORT OF AUORAL ELECTRONS AND SMALL
 SCALE AUORAL ARCS/STUDENT: LAURA PETICOLA
 06/05/1998 - 06/30/2001 FY01: \$0 Total: \$41,537
Prin. Invest.: D LUMMERZHEIM
Tech. Officer: HQ/A NURRIDIN
CASE Category: 13 - PHYSICS

NGT 5 50324 UNIV OF ALASKA - FAIRBANKS 1291
 TREES, FIRE & CLIMATE: EVALUATING POTENTIAL FEED BACKS BETWEEN
 DISTURBANCE REGIME/FOREST SUCCESSION
 08/17/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: S F CHAPIN
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7629 UNIV OF NORTH CAROLINA AT WILMINGTON 1292
 REMOTE SENSING AND MARINE ECOLOGY AT THE UNIVERSIT Y OF NORTH
 CAROLINA AT WILMINGTON
 08/28/1998 - 12/31/2000 FY01: \$0 Total: \$29,580
Prin. Invest.: S D EMSLIE
Tech. Officer: GSFC/J W CAMPBELL
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

ARIZONA

NAG 1 1781 ARIZONA STATE UNIV 1293
 PENETRATION OF HIGH-INTENSITY RADIATED FIELDS INTO GENERAL
 AVIATION AIRCRAFT
 12/13/1995 - 12/31/2001 FY01: \$32,783 Total: \$641,878
Prin. Invest.: C BALANIS, P TIRKAS
Tech. Officer: LARC/T X NGUYEN
CASE Category: 45 - ELECTRICAL ENGR

NAG 1 1988 ARIZONA STATE UNIV 1294
 DEVELOPMENT OF COMPREHENSIVE MODELING TECHNIQUES FOR
 SMART COMPOSITE STRUCTURES
 01/06/1998 - 01/14/2001 FY01: \$1,554 Total: \$128,403
Prin. Invest.: A CHATTOPADYAY
Tech. Officer: LARC/C D WIESEMAN, LARC/A R MCGOWAN
CASE Category: 41 - AERONAUTICAL ENGR

NAG 1 2233 ARIZONA STATE UNIV 1295
 DETERM & USE OF SENSITIVITIES FOR REDESIGN/ANAL OF MISTUNED
 BLADED DISKS - NRA 98-LARC-8
 09/27/1999 - 07/31/2002 FY01: \$72,264 Total: \$153,439
Prin. Invest.: M P MIGNOLET
Tech. Officer: LARC/P W GOODE
CASE Category: 29 - MATH/COMPUTER SCI, OTHER

NAG 1 2241 ARIZONA STATE UNIV 1296
 USING FORMAL APPROACH FOR REVERSE ENGR'G & DESIGN RECOVERY
 TO SUPPORT SOFTWARE REUSE--NRA-98-LARC-8
 09/27/1999 - 08/30/2002 FY01: \$96,604 Total: \$192,186
Prin. Invest.: G C GANNOD
Tech. Officer: LARC/B L DI VITO
CASE Category: 22 - COMPUTER SCIENCE

NAG 1 2283 ARIZONA STATE UNIV 1297
 A NONLINEAR THEORY FOR SMART COMPOSITE STRUCTURES
 03/24/2000 - 03/14/2003 FY01: \$53,305 Total: \$98,305
Prin. Invest.: A CHATTOPADHYAY
Tech. Officer: LARC/D R AMBUR
CASE Category: 41 - AERONAUTICAL ENGR

NAG 2 908 ARIZONA STATE UNIV 1298
 DEVELOPMENT OF A COMPOSITE TAILORING PROCEDURE FOR AIRPLANE
 WING
 06/15/1994 - 09/30/1999 FY01: -\$329 Total: \$174,688
Prin. Invest.: A CHATTOPADHYAY, NONE
Tech. Officer: ARC/H MIURA, ARC/A SHAHN
CASE Category: 41 - AERONAUTICAL ENGR

NAG 2 1461 ARIZONA STATE UNIV 1299
 CONTINUAL PLANNING IN METRIC/TEMPORAL DOMAINS
 03/13/2001 - 02/28/2002 FY01: \$161,928 Total: \$161,928
Prin. Invest.: S KAMBHAMPPATI
Tech. Officer: ARC/R A MORRIS
CASE Category: 22 - COMPUTER SCIENCE

NAG 3 2081 ARIZONA STATE UNIV 1300
 DECOUPLING THE ROLE OF INERTIA & GRAVITY ON PARTIC LE DISPER-
 SION LSN000850-(NRA-94-OLMSA)
 09/26/1997 - 09/16/2001 FY01: \$0 Total: \$49,456
Prin. Invest.: K D SQUIRES
Tech. Officer: GRC/A CHAIT
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2591 **ARIZONA STATE UNIV** **1301**
 OPTIMIZATION OF ENGINEERED III-N MATERIAL FOR ELECTRON EMISSION DEVICES
 04/16/2001 – 02/28/2002 FY01: \$19,990 Total: \$19,990
Prin. Invest.: N NEWMAN
Tech. Officer: GRC/I KRAINSKY
CASE Category: 13 – PHYSICS

NAG 5 3628 **ARIZONA STATE UNIV** **1302**
 THERMAL-INFRARED LABORATORY STUDIES
 02/25/1997 – 12/31/2001 FY01: \$97,200 Total: \$476,921
Prin. Invest.: D R CHRISTENSEN
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3783 **ARIZONA STATE UNIV** **1303**
 DETERMINING THE COMPOSITION OF MARTIAN AND VENUSIAN
 02/21/1997 – 12/31/2001 FY01: \$73,000 Total: \$361,350
Prin. Invest.: D FINK
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3908 **ARIZONA STATE UNIV** **1304**
 STUDIES IN PLANETARY VOLCANOLOGY
 02/12/1997 – 02/28/2002 FY01: \$122,000 Total: \$919,053
Prin. Invest.: D GREELEY
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3909 **ARIZONA STATE UNIV** **1305**
 STUDIES OF MARTIAN AEOLIAN GEOLOGY
 02/12/1997 – 02/28/2001 FY01: \$0 Total: \$347,877
Prin. Invest.: R GREELEY
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4131 **ARIZONA STATE UNIV** **1306**
 ORGANICS IN METEORITES
 03/15/1997 – 09/14/2001 FY01: \$0 Total: \$345,000
Prin. Invest.: D CRONIN
Tech. Officer: GSFC/M MEYER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 4280 **ARIZONA STATE UNIV** **1307**
 CHEMICAL CONSTRAINTS ON THE EARLY SOLAR NEBULA: MOLE ABUNDANCES IN CLOUDS, DISKS, AND COMETS
 04/30/1997 – 06/30/2000 FY01: \$0 Total: \$135,000
Prin. Invest.: D WYCKOFF
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4860 **ARIZONA STATE UNIV** **1308**
 FOSSIL RECORD OF PRECAMBRIAN LIFE ON LAND
 06/19/1997 – 05/31/2000 FY01: \$0 Total: \$154,560
Prin. Invest.: P KNAUTH
Tech. Officer: GSFC/M A MEYER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 6741 **ARIZONA STATE UNIV** **1309**
 SYSTEMATIC DETERMINATIONS OF ELEMENTAL ABUNDANCES FOR GALACTIC AND LMC NOVAE
 12/19/1997 – 12/31/2001 FY01: \$0 Total: \$200,688
Prin. Invest.: S STARRFIELD
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 7199 **ARIZONA STATE UNIV** **1310**
 SEARCH FOR EXTRA-SOLAR PLANETS FROM SOUTHERN HEMISPHERE
 04/17/1998 – 04/14/2000 FY01: \$0 Total: \$40,000
Prin. Invest.: P A WEHINGER
Tech. Officer: HQ/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 7285 **ARIZONA STATE UNIV** **1311**
 MINERALOGY AND MICROSTRUCTURES OF SHOCK-INDUCED METAL VEINS IN CHONDRITES
 04/29/1998 – 10/30/2000 FY01: \$0 Total: \$81,000
Prin. Invest.: T G SHARP
Tech. Officer: HQ/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 7540 **ARIZONA STATE UNIV** **1312**
 INVESTIGATION OF NEBULAR PROCESSES THROUGH OXYGEN ISOTOPIC ANALYSIS OF PRIMITIVE METEORITE MATERIAL
 06/18/1998 – 03/31/2002 FY01: \$31,000 Total: \$121,100
Prin. Invest.: L LESHIN
Prin. Invest.: NONE
Tech. Officer: HQ/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 7640 **ARIZONA STATE UNIV** **1313**
 ISOTOPIC CONSTRAINTS ON THE GENESIS OF CARBONATES IN MARTIAN METEORITE ALH84001
 09/23/1998 – 07/31/2000 FY01: \$0 Total: \$35,000
Prin. Invest.: D A LESHIN
Tech. Officer: HQ/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 8158 **ARIZONA STATE UNIV** **1314**
 MICROBEAM INVESTIGATIONS OF PRESOLAR AND EARLY SOLAR SYSTEM MATERIALS
 02/04/1999 – 01/31/2002 FY01: \$100,000 Total: \$299,000
Prin. Invest.: D R HUSS
Tech. Officer: HQ/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 8173 **ARIZONA STATE UNIV** **1315**
 PRESOLAR GRAINS AS TRACERS OF NEBULAR PROCESSES
 02/03/1999 – 10/14/2001 FY01: \$0 Total: \$38,000
Prin. Invest.: D R HUSS
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 8278 **ARIZONA STATE UNIV** **1316**
 MULTIWAVELENGTH SPECTRAL SYNTHESSES OF NOV ATMOSPHERES (ADP 98)
 02/24/1999 – 02/28/2002 FY01: \$0 Total: \$98,991
Prin. Invest.: S G STARRFIELD
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 8286 **ARIZONA STATE UNIV** **1317**
 ACQUISITION OF A CAMECA IMS 6F SECONDARY ION MASS SPECTROMETER FOR APPLICATIONS IN COSMOCHEMISTRY
 02/22/1999 - 02/28/2001 FY01: \$0 Total: \$489,500
Prin. Invest.: L A LESHIN
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8453 **ARIZONA STATE UNIV** **1318**
 ANALYSIS OF AEOLIAN FEATURES AND PROCESSES ON MARS
 04/14/1999 - 04/14/2002 FY01: \$80,000 Total: \$234,000
Prin. Invest.: R GREELEY
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8481 **ARIZONA STATE UNIV** **1319**
 FORMATION & EVOLUTION OF BINARY SYSTEMS CONTAINING COLLAPSED STARS (ATP 98)
 04/29/1999 - 04/30/2002 FY01: \$10,000 Total: \$29,420
Prin. Invest.: M POLITANO
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8721 **ARIZONA STATE UNIV** **1320**
 SMALL IMPACTS ON MARS: ATMOSPHERIC EFFECTS
 08/03/1999 - 08/14/2002 FY01: \$24,000 Total: \$70,500
Prin. Invest.: R GREELEY
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8805 **ARIZONA STATE UNIV** **1321**
 PHASE-RESOLVED INVESTIGATION OF SUPERSOFT X-RAY BINARIES - FUSE
 02/01/2000 - 02/14/2002 FY01: \$0 Total: \$23,900
Prin. Invest.: A P COWLEY
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 8897 **ARIZONA STATE UNIV** **1322**
 GEOLOGICAL STUDIES OF THE GALILEAN SATELLITES
 01/13/2000 - 01/14/2002 FY01: \$88,900 Total: \$176,600
Prin. Invest.: R GREELY
Tech. Officer: GSFC/D BOGAN
CASE Category: 11 - ASTRONOMY

NAG 5 8898 **ARIZONA STATE UNIV** **1323**
 MECHANISMS, MANIFESTATION AND IMPLICATIONS OF CRYO MAGMATISM ON EUROPA
 01/13/2000 - 01/14/2002 FY01: \$42,700 Total: \$83,700
Prin. Invest.: S A FAGENTS
Tech. Officer: GSFC/D BOGAN
CASE Category: 11 - ASTRONOMY

NAG 5 8948 **ARIZONA STATE UNIV** **1324**
 STUDIES OF MARTIAN AEOLIAN GEOLOGY
 01/19/2000 - 02/28/2002 FY01: \$93,000 Total: \$181,350
Prin. Invest.: R GREELEY
Tech. Officer: GSFC/J GRANT
CASE Category: 11 - ASTRONOMY

NAG 5 9070 **ARIZONA STATE UNIV** **1325**
 MONITORING THE HAZARDS OF SILICIC VOLCANOES WITH REMOTE SENSING
 02/27/2000 - 02/28/2002 FY01: \$61,203 Total: \$98,703
Prin. Invest.: J FINK
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 9263 **ARIZONA STATE UNIV** **1326**
 MULTIDIMENSIONAL STUDIES OF THE CONSEQUENCES OF THERMONUCLEAR RUNAWAYS ON ACCRETING WHITEDWARFS
 03/13/2000 - 03/14/2002 FY01: \$95,870 Total: \$186,581
Prin. Invest.: S STARRFIELD
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9352 **ARIZONA STATE UNIV** **1327**
 COSMOCHEMISTRY & MINERALOGY OF PRIMITIVE METEORITE
 03/30/2000 - 03/31/2002 FY01: \$100,000 Total: \$194,000
Prin. Invest.: P R BUSECK
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 9381 **ARIZONA STATE UNIV** **1328**
 HIGH PRESSURE MINERALS IN SHOCKED METEORITES: CONSTRAINTS ON SHOCK CONDITIONS AND DURATION
 04/03/2000 - 03/31/2002 FY01: \$49,000 Total: \$98,000
Prin. Invest.: T G SHARP
Tech. Officer: GSFC/D NAVA
CASE Category: 11 - ASTRONOMY

NAG 5 9395 **ARIZONA STATE UNIV** **1329**
 FUSE OBSERVATIONS OF GALACTIC AND LMC NOVAE IN OUT BURST - FUSE
 04/05/2000 - 04/14/2002 FY01: \$0 Total: \$9,084
Prin. Invest.: S G STARRFIELD
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 9430 **ARIZONA STATE UNIV** **1330**
 ENVIRONMENTS OF EARLY EVOLUTION AND THE SEARCH FOR AN EXTRA-TERRESTRIAL FOSSIL RECORD
 04/13/2000 - 05/31/2002 FY01: \$100,000 Total: \$192,316
Prin. Invest.: P KNAUTH
Tech. Officer: GSFC/M MEYER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9451 **ARIZONA STATE UNIV** **1331**
 CHIRAL ANALYSES OF ORGANIC COMPOUNDS IN CARBONACEOUS METEORITES
 04/12/2000 - 04/14/2002 FY01: \$110,000 Total: \$213,620
Prin. Invest.: S PIZZARELLO
Tech. Officer: GSFC/M MEYER
CASE Category: 12 - CHEMISTRY

NAG 5 9507 **ARIZONA STATE UNIV** **1332**
 MICROBIAL PALEONTOLOGY, MINERALOGY & GEOCHEMISTRY OF MODERN
 & ANCIENT THERMAL SPRING DEPOSITS & THEI
 05/23/2000 – 04/30/2002 FY01: \$124,000 Total: \$240,992
Prin. Invest.: J FARMER
Tech. Officer: GSFC/M MEYER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 9773 **ARIZONA STATE UNIV** **1333**
 GEOLOGY OF POTENTIAL LANDING SITES FOR MARTIAN SAM PLE
 RETURNS
 07/05/2000 – 06/30/2002 FY01: \$41,900 Total: \$83,800
Prin. Invest.: R GREELY
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 9838 **ARIZONA STATE UNIV** **1334**
 RADIATION SCIENCE PROGRAM TRANSMISSION ELECTRON MI CROSCOPY
 (TEM) STUDY OF SOUTHERN AFRICAN FIRE-ATM
 11/20/2000 – 11/30/2001 FY01: \$124,000 Total: \$124,000
Prin. Invest.: P R BUSECK
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 10077 **ARIZONA STATE UNIV** **1335**
 CHEMICAL CONSTRAINTS ON THE EARLY SOLAR NEBULA: IRACING
 MOLECULAR & ISOTOPIC ABUNDANCES FROM INTE
 11/15/2000 – 11/14/2001 FY01: \$40,000 Total: \$40,000
Prin. Invest.: S WYCKOFF
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 10214 **ARIZONA STATE UNIV** **1336**
 THERMAL CONDUCTIVITY RELATIONSHIPS TO PHYSICAL PRO PERTIES OF
 MARTIAN SURFICIAL MATERIALS: A TOOL FO
 01/04/2001 – 01/14/2002 FY01: \$55,000 Total: \$55,000
Prin. Invest.: M A PRESLEY
Tech. Officer: GSFC/D SENSKE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10268 **ARIZONA STATE UNIV** **1337**
 RECENT VOLCANIC AND FLUVIAL ACTIVITY ON MARS
 01/18/2001 – 04/30/2002 FY01: \$166,400 Total: \$166,400
Prin. Invest.: A S MCEWEN
Tech. Officer: GSFC/J BOYCE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10310 **ARIZONA STATE UNIV** **1338**
 MAPPING MINERALOGY, ROCK ABUNDANCE, & THERMAL INER TIA USING
 MGS THERMAL EMISSION SPECTROMETER (TES)
 01/25/2001 – 01/31/2002 FY01: \$150,000 Total: \$150,000
Prin. Invest.: P R CHRISTIANSON
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 10316 **ARIZONA STATE UNIV** **1339**
 OBSERVATIONS OF THE LISM WITH HOT WHITE DWARFS – FUSE – 2000
 01/26/2001 – 01/31/2002 FY01: \$23,600 Total: \$23,600
Prin. Invest.: J B HOLBERG
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 – ASTRONOMY

NAG 5 10449 **ARIZONA STATE UNIV** **1340**
 PRESOLAR GRAINS: PROBES OF PROCESS IN INTERSTELLAR SPACE, IN
 THE SOLAR NEBULA, & ON METEORITE PAREN
 02/21/2001 – 02/28/2002 FY01: \$33,000 Total: \$33,000
Prin. Invest.: G HUSS
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 10460 **ARIZONA STATE UNIV** **1341**
 REGIONAL PLANETARY IMAGE FACILITY-ARIZONA STATE UNIV
 02/26/2001 – 02/28/2002 FY01: \$65,900 Total: \$65,900
Prin. Invest.: R GREELY
Tech. Officer: GSFC/D SENSKE
CASE Category: 11 – ASTRONOMY

NAG 5 10523 **ARIZONA STATE UNIV** **1342**
 ISOTOPIC & PETROLOGIC INVESTIGATIONS OF EXTRATERRE STRIAL
 MATERIALS: CONSTRAINTS ON NEBULAR, ASTEROI
 03/06/2001 – 03/14/2002 FY01: \$100,000 Total: \$100,000
Prin. Invest.: L A LESHIN
Tech. Officer: GSFC/J BOYCE
CASE Category: 12 – CHEMISTRY

NAG 5 10524 **ARIZONA STATE UNIV** **1343**
 ASU/MICHIGAN COLLABORATION: THE ABUNDANCE & ISOTOP IC
 COMPOSITION OF HG IN EXTRATERRESTRIAL MATERIAL
 03/05/2001 – 07/31/2001 FY01: \$3,158 Total: \$3,158
Prin. Invest.: D LAURETTA
Tech. Officer: GSFC/J BOYCE
CASE Category: 12 – CHEMISTRY

NAG 5 10689 **ARIZONA STATE UNIV** **1344**
 THE EVOLUTIONARY DEVELOPMENT OF PHOTOSYNTHESIS & THE TRAN-
 SITION FROM AN ANAEROBIC TO AN AEROBIC
 04/06/2001 – 03/31/2002 FY01: \$90,000 Total: \$90,000
Prin. Invest.: R BLANKENSHIP
Tech. Officer: GSFC/M MEYER
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10753 **ARIZONA STATE UNIV** **1345**
 CHEMICAL CONSTRAINTS ON THE EARLY SOLAR NEBULA
 04/11/2001 – 04/14/2002 FY01: \$20,000 Total: \$20,000
Prin. Invest.: S WYCKOFF
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 10899 **ARIZONA STATE UNIV** **1346**
 THIRD INTERNATIONAL SYMPOSIUM ON ENVIRONMENTAL HYDRAULICS
 05/04/2001 – 05/31/2002 FY01: \$15,000 Total: \$15,000
Prin. Invest.: D BOYER
Tech. Officer: GSFC/A TUYAHOV
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 11199 **ARIZONA STATE UNIV** **1347**
 ORIGINS OF SMALL VOLCANIC CONES: ERUPTION MECHANIS MS AND
 IMPLICATIONS FOR WATER ON MARS
 08/07/2001 – 08/14/2004 FY01: \$49,926 Total: \$49,926
Prin. Invest.: S FAGENTS
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 – ASTRONOMY

NAG 8 1353 **ARIZONA STATE UNIV** **1348**
 R/S "CRYSTALLIZATION MECHANISMS OF MEMBRANE PROTEINS UNDER
 THE DIRECTION OF DR. JAMES ALLEN"
 05/19/1997 - 05/31/2001 FY01: \$0 Total: \$484,000
Prin. Invest.: J ALLEN
Tech. Officer: MSFC/B GUYNES, MSFC/J MAYO
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 9 815 **ARIZONA STATE UNIV** **1349**
 DEVELOPE MICROFLOW BIOCHEMICAL SENSORS
 08/07/1995 - 11/14/2000 FY01: -\$77 Total: \$567,923
Prin. Invest.: B TOWE
Tech. Officer: JSC/N R PELLIS
CASE Category: 49 - ENGINEERING, OTHER

NAG 9 1331 **ARIZONA STATE UNIV** **1350**
 GENISIS OF THE CRYSTALLIN HEMATITE DEPOSIT IN SINUS MERIDIANI
 MARS
 07/05/2001 - 06/28/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: P R CHRISTENSON
Tech. Officer: JSC/R V MORRIS
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 9 1359 **ARIZONA STATE UNIV** **1351**
 A MICROFLUID BIO REPORTER FOR EXPLORATORY BIO ENGI NEERING
 07/27/2001 - 09/30/2004 FY01: \$39,000 Total: \$39,000
Prin. Invest.: B C TOWE
Tech. Officer: JSC/D RISEN
CASE Category: 54 - ENVIRONMENTAL BIOLOGY

NAS 1 00122 **ARIZONA STATE UNIV** **1352**
 TO INVESTIGATE CONCEPTS FOR CONTROLLINGATTITUDE AN D
 DYNAMICS OF OF SPACE SOLAR POWER SATELLITES
 06/16/2000 - 11/15/2000 FY01: \$85 Total: \$115,151
Prin. Invest.: B WIE
Tech. Officer: LARC/C L MOORE, MSFC/C CARRINGTON
CASE Category: 42 - ASTRONAUTICAL ENGR

NAS 5 31371 **ARIZONA STATE UNIV** **1353**
 EOS INVESTIGATION "ADVANCED SPACEBORNE THERMAL EMISSION AND
 REFLECTION"
 12/23/1991 - 12/22/2001 FY01: \$119,564 Total: \$1,676,837
Prin. Invest.: P CHRISTENSEN
Tech. Officer: GSFC/H BLODGET
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 1 01051 **ARIZONA STATE UNIV** **1354**
 PENETRATION OF HIGH INTENSITY RADIATED FIELDS(HIRF) INTO
 AIRCRAFT
 05/29/2001 - 05/31/2004 FY01: \$54,000 Total: \$54,000
Prin. Invest.: C BALANIS, NONE
Tech. Officer: LARC/T X NGUYEN
CASE Category: 45 - ELECTRICAL ENGR

NCC 2 1051 **ARIZONA STATE UNIV** **1355**
 EXPLORING THE LIVING UNIVERSE: ORIGIN, EVOLUTION AND DISTRIBU-
 TION OF LIFE IN THE SOLAR SYSTEM
 09/22/1998 - 06/30/2003 FY01: \$1,558,092 Total: \$3,907,192
Prin. Invest.: J D FARMER
Tech. Officer: ARC/R A GRAYMES, ARC/W W DOLCI
CASE Category: 59 - LIFE SCIENCE, OTHER

NCC 2 1109 **ARIZONA STATE UNIV** **1356**
 OPERATION OF THE PLANETARY AEOLIAN LABORATORY
 04/02/1999 - 04/30/2002 FY01: \$90,511 Total: \$280,800
Prin. Invest.: R GREELEY
Tech. Officer: ARC/S G EDDLEMON, ARC/B F SMITH
CASE Category: 32 - GEOLOGICAL SCIENCE

NCC 2 1225 **ARIZONA STATE UNIV** **1357**
 HEURISTIC CONTROL OF PLANNING & EXECUTION IN METRI C/TEMPORAL
 DOMAINS
 03/23/2001 - 02/28/2002 FY01: \$48,000 Total: \$48,000
Prin. Invest.: S KAMBHAMPATI
Tech. Officer: ARC/R MORRIS
CASE Category: 22 - COMPUTER SCIENCE

NCC 2 1232 **ARIZONA STATE UNIV** **1358**
 AGENT DEVELOPMENT & CONTROL VERIFICATION USING DUA L CHAR-
 ACTERIZATION
 03/26/2001 - 11/30/2001 FY01: \$75,000 Total: \$75,000
Prin. Invest.: C BARAL
Tech. Officer: ARC/R MORRIS
CASE Category: 22 - COMPUTER SCIENCE

NCC 2 5331 **ARIZONA STATE UNIV** **1359**
 MINIATURIZED BIONSENSOR BASED ON LIGHT EMITTING DI ODE & PHOTO-
 DETECTOR ARRAY
 07/14/1999 - 06/30/2001 FY01: \$0 Total: \$95,000
Prin. Invest.: Y H ZHANG
Tech. Officer: ARC/M MEYYAPPAN, ARC/T R GOVINDAN
CASE Category: 13 - PHYSICS

NCC 2 5362 **ARIZONA STATE UNIV** **1360**
 TERA-HERTZ MODULATION OF QUANTUM WELL LASERS WILL AN ELEC-
 TRICAL FIELD
 01/19/2000 - 12/14/2001 FY01: \$0 Total: \$47,000
Prin. Invest.: Y ZHANG
Tech. Officer: ARC/M MEYYAPPAN
CASE Category: 13 - PHYSICS

NCC 2 5411 **ARIZONA STATE UNIV** **1361**
 ECOGENOMICS: MOLECULAR BIOLOGICAL ANALYSES OF HYPE RSALINE
 BACTERIAL COMMUNITIES
 11/22/2000 - 11/30/2001 FY01: \$59,970 Total: \$59,970
Prin. Invest.: F G PICHEL
Tech. Officer: ARC/D J DESMARAIS, ARC/B M BEBOUT
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NGT 2 52284 **ARIZONA STATE UNIV** **1362**
 THE PROTECTIVE ROLES OF THE ANTIOXIDANT EXZYMES SU PEROXIDE
 DISMUTASE & CATALASE IN THE GREEN PHOTOS
 08/09/2001 - 08/31/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: R E BLAKENSHIP
Tech. Officer: ARC/L ROTHSCCHILD, ARC/E P CONDON
CASE Category: 51 - BIOLOGY(EXCLUDING ENVIR)

NGT 5 30221 **ARIZONA STATE UNIV** **1363**
 EFFECTS OF TECTONIC PROCESSES AND CLIMATIC FLUCTUA TIONS ON
 LANDSCAPE DEVELOPMENT
 08/26/1999 - 08/31/2001 FY01: \$0 Total: \$44,000
Prin. Invest.: J R ARROWSMITH
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 50077 ARIZONA STATE UNIV 1364
 INVESTIGATION OF AEOLIAN FEATURES USING RADAR DATA TS, & FIELD
 WORK
 08/26/1997 - 12/31/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: R GREELEY
Tech. Officer: HQ/A NURRIDIN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50276 ARIZONA STATE UNIV 1365
 PARTITIONING OF HIGHLY SIDEROPHILE ELEMENTS AT ELEVATED PRES-
 SURE & TEMPERATURE: CONSTRAINTS ON
 06/20/2000 - 06/30/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: T SHARP
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 9 21 ARIZONA STATE UNIV 1366
 VESTIBULAT INFO IN EYE HEAD HAND COORDINATION
 05/13/1997 - 12/31/2000 FY01: -\$3,011 Total: \$62,989
Prin. Invest.: R D SEIDLER
Tech. Officer: JSC/D G SICKCOREZ
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 2 6012 DINE COLLEGE (FORMERLY NAVAJO COMM COLL) 1367
 THE AMERICAN INDIAN NETWORK INFORMATION CENTER
 07/24/1997 - 08/31/2000 FY01: \$0 Total: \$399,990
Prin. Invest.: A SAM
Tech. Officer: ARC/L K ALDERETE, ARC/G S LEE
CASE Category: 22 - COMPUTER SCIENCE

NAG 5 10254 DINE COLLEGE (FORMERLY NAVAJO COMM COLL) 1368
 INTERNET-BASED EDUCATION & RESEARCH WITH ROBOTIC TELESCOPES
 FOR NATIVEAMERICAN & HISPANIC
 01/10/2001 - 01/14/2002 FY01: \$218,000 Total: \$218,000
Prin. Invest.: S SEMKEN
Tech. Officer: GSFC/P SAKIMOTO
CASE Category: 11 - ASTRONOMY

NAG 9 968 DINE COLLEGE (FORMERLY NAVAJO COMM COLL) 1369
 STUDENT MATH & SCIENCE CAREERS INITIATIVES
 09/24/1997 - 09/30/1999 FY01: -\$18,608 Total: \$373,704
Prin. Invest.: M C BAUER
Tech. Officer: JSC/L ARMENDARIZ
CASE Category: 29 - MATH/COMPUTER SCI, OTHER

NAG 9 1172 DINE COLLEGE (FORMERLY NAVAJO COMM COLL) 1370
 SCIENCE ENRICHMENT ACTIVITIES
 09/28/1999 - 09/29/2001 FY01: \$60,360 Total: \$200,000
Prin. Invest.: M C BAUER
Tech. Officer: JSC/L ARMEDARIZ
CASE Category: 49 - ENGINEERING, OTHER

NAG13 99028 DINE COLLEGE (FORMERLY NAVAJO COMM COLL) 1371
 EXPANDING THE POOL OF GIS PROFESSIONALS FOR THE NAVAJO NATION
 09/02/1999 - 09/27/2001 FY01: \$76,540 Total: \$192,080
Prin. Invest.: D ISELY
Tech. Officer: JSC/R TRAVIS
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 2 6003 NORTHERN ARIZONA UNIV 1372
 PATHWAYS LEADING TO SUCCESS (PALS)
 08/29/1994 - 12/31/1999 FY01: \$0 Total: \$149,685
Prin. Invest.: G M BOYNE
Tech. Officer: ARC/A R GROSS
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 4995 NORTHERN ARIZONA UNIV 1373
 MARS FLUIDIZED EJECTA CRATER STUDIES
 07/23/1997 - 07/14/2000 FY01: -\$4,252 Total: \$38,548
Prin. Invest.: D BARNES
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 - ASTRONOMY

NAG 5 6790 NORTHERN ARIZONA UNIV 1374
 INFRARED SPECTROSCOPY OF PLANETARY SATELLITES
 02/10/1998 - 09/14/2001 FY01: \$0 Total: \$164,147
Prin. Invest.: C A GRIFFITH
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 - ASTRONOMY

NAG 5 7757 NORTHERN ARIZONA UNIV 1375
 A PHOTOMETRIC SURVEY OF TRANS-NEPTUNIAN OBJECTS
 12/07/1998 - 09/30/2002 FY01: \$0 Total: \$126,030
Prin. Invest.: S C TEGLER
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 - ASTRONOMY

NAG 5 8146 NORTHERN ARIZONA UNIV 1376
 SPECTROSCOPIC INVESTIGATIONS OF EXTRASOLAR PLANETS AND
 BROWN DWARFS
 02/04/1999 - 09/30/2002 FY01: \$28,000 Total: \$58,000
Prin. Invest.: C A GRIFFITH
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8203 NORTHERN ARIZONA UNIV 1377
 X-RAY PROCESSING OF COMETARY ICE MIXTURES
 02/08/1999 - 01/31/2002 FY01: \$35,000 Total: \$102,000
Prin. Invest.: D M CORNELISON
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8525 NORTHERN ARIZONA UNIV 1378
 FROM GIANT PLANETS TO COOL STARS
 05/13/1999 - 09/30/2000 FY01: \$0 Total: \$12,875
Prin. Invest.: C GRIFFITH
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 - ASTRONOMY

NAG 5 9214 NORTHERN ARIZONA UNIV 1379
 STRUCTURE AND COMPOSITION OF PLANETARY ATMOSPHERES
 03/09/2000 - 03/14/2003 FY01: \$0 Total: \$80,000
Prin. Invest.: R YELLE
Tech. Officer: GSFC/D BOGAN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 11078	NORTHERN ARIZONA UNIV	1380	NAG 1 2218	UNIV OF ARIZONA	1388
DYNAMICS, COMPOSITION, AND THERMAL STRUCTURE OF TITAN'S UPPER ATMOSPHERE			IMPROVEMENT AND REFINEMENT OF THE GPS/MET (GLOBAL POSITIONING SYS/METEOROLOGY) DATA ANAL ALGORITHM		
08/06/2001 – 08/14/2004	FY01: \$41,802	Total: \$41,802	08/10/1999 – 07/31/2001	FY01: \$0	Total: \$124,000
<i>Prin. Invest.:</i> R YELLE			<i>Prin. Invest.:</i> B M HERMAN, D S FENG		
<i>Tech. Officer:</i> GSFC/D J BOGAN			<i>Tech. Officer:</i> LARC/V E DELNORE, LARC/J L RAPER		
<i>CASE Category:</i> 42 – ASTRONAUTICAL ENGR			<i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE		
NAG 5 11239	NORTHERN ARIZONA UNIV	1381	NAG 1 2317	UNIV OF ARIZONA	1389
SPECTROSCOPIC INVESTIGATIONS OF TITAN'S ATMOSPHERE AND SURFACE			TAILORING OF BONDED AND BOLTED LAP JOINTS AND PATC H REPAIR OF DAMAGED COMPOSITE PANELS		
08/15/2001 – 08/31/2004	FY01: \$70,600	Total: \$70,600	06/28/2000 – 10/31/2002	FY01: \$110,001	Total: \$198,450
<i>Prin. Invest.:</i> C GRIFFITH			<i>Prin. Invest.:</i> E MADENCI		
<i>Tech. Officer:</i> GSFC/J HILMAN			<i>Tech. Officer:</i> LARC/D R AMBUR		
<i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER			<i>CASE Category:</i> 41 – AERONAUTICAL ENGR		
NCC 2 5356	NORTHERN ARIZONA UNIV	1382	NAG 1 01124	UNIV OF ARIZONA	1390
STUDY OF THE HOST ROCKS OF CARBONACEOUS MATTER FROM IMPACT DEPOSITS, METEORITES & EXPERIMENTAL PROD			SAGE II AND SAGE III SATELLITE VALIDATION AND SCIENCE STUDIES		
09/29/1999 – 03/31/2001	FY01: \$0	Total: \$30,000	09/18/2001 – 03/31/2004	FY01: \$43,700	Total: \$43,700
<i>Prin. Invest.:</i> J H WITTK			<i>Prin. Invest.:</i> B M HERMAN		
<i>Tech. Officer:</i> ARC/M L FONDA, ARC/T E BUNCH			<i>Tech. Officer:</i> LARC/W P CHU		
<i>CASE Category:</i> 51 – BIOLOGY (EXCLUDING ENVIR)			<i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE		
NCC 2 5429	NORTHERN ARIZONA UNIV	1383	NAG 2 1187	UNIV OF ARIZONA	1391
AN UNSTEADY REYNOLDS-AVERAGED NAVIER-STOKES SIMULATION OF THE FLOW AROUND AN UNCONFINED CUBOID AT H			INFLUENCE OF UNWEIGHTING ON INSULIN SIGNAL TRANSDU CTION IN MUSCLE		
03/22/2001 – 03/31/2002	FY01: \$38,361	Total: \$38,361	03/18/1998 – 04/30/2002	FY01: \$0	Total: \$425,994
<i>Prin. Invest.:</i> E P DUQUE			<i>Prin. Invest.:</i> M E TISCHLER, E J HENRISKSEN		
<i>Tech. Officer:</i> ARC/C TUNG, ARC/R STRAWN			<i>Tech. Officer:</i> ARC/M M AVERNER, ARC/R D MACELROY		
<i>CASE Category:</i> 41 – AERONAUTICAL ENGR			<i>CASE Category:</i> 51 – BIOLOGY (EXCLUDING ENVIR)		
NAG 2 1409	PRESCOTT COLLEGE	1384	NAG 2 1369	UNIV OF ARIZONA	1392
STATE AND LOCAL GOVERNMENT APPLICATIONS PROGRAM			EFFECT OF MICROGRAVITY ON THE DEVELOPMENT OF THE IMMUNE SYSTEM		
06/07/2000 – 12/31/2001	FY01: \$442,000	Total: \$872,000	08/02/1999 – 07/31/2002	FY01: \$184,859	Total: \$471,605
<i>Prin. Invest.:</i> W W ORR			<i>Prin. Invest.:</i> D DELUCA		
<i>Tech. Officer:</i> ARC/E P CONDON			<i>Tech. Officer:</i> ARC/M M AVERNER, ARC/R D MACELROY		
<i>CASE Category:</i> 13 – PHYSICS			<i>CASE Category:</i> 51 – BIOLOGY (EXCLUDING ENVIR)		
NAG 1 2023	UNIV OF ARIZONA	1385	NAG 2 1446	UNIV OF ARIZONA	1393
SATELLITE DATA STUDIES OF STRATOSPHERIC OZONE MY 1/3			CONSTRUCTION METHODS FOR VERY LARGE FORMAT FAR INF RARED ARRAYS		
03/18/1998 – 04/30/2001	FY01: \$1	Total: \$279,690	09/28/2000 – 08/31/2001	FY01: \$0	Total: \$50,000
<i>Prin. Invest.:</i> L L HOOD			<i>Prin. Invest.:</i> E T YOUNG		
<i>Tech. Officer:</i> LARC/G L MADDREA, LARC/L R POOLE			<i>Tech. Officer:</i> ARC/C R MCCREIGHT, ARC/R E MCMURRAY		
<i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE			<i>CASE Category:</i> 11 – ASTRONOMY		
NAG 1 2041	UNIV OF ARIZONA	1386	NAG 3 1869	UNIV OF ARIZONA	1394
DEVELOPMENT OF ANALYSIS METHODS FOR DESIGNING WITH COMPONENTS			AN EXPERIMENTAL STUDY OF RICHTMYER		
03/31/1998 – 03/31/2001	FY01: \$1	Total: \$270,002	05/09/1996 – 05/08/2002	FY01: \$0	Total: \$414,000
<i>Prin. Invest.:</i> E MADENCI			<i>Prin. Invest.:</i> J JACOBS		
<i>Tech. Officer:</i> LARC/J H STARNES, LARC/D R AMBUR			<i>Tech. Officer:</i> GRC/A T CHAI		
<i>CASE Category:</i> 41 – AERONAUTICAL ENGR			<i>CASE Category:</i> 19 – PHYSICAL SCIENCE, OTHER		
NAG 1 2052	UNIV OF ARIZONA	1387	NAG 3 2154	UNIV OF ARIZONA	1395
BOLTED DOUBLE-LAP JOINTS W/SANDWICH PANELS & LAMINATES UNDER MECH & THERMAL LOADING			MODELING OF TRANSPORT PROCESSES IN A SOLID OXIDE ELECTROIZED GENERATING OXYGEN ON MARS		
04/08/1998 – 04/07/2001	FY01: \$1	Total: \$155,176	04/10/1998 – 01/31/2002	FY01: \$118,750	Total: \$343,750
<i>Prin. Invest.:</i> E MADENCI			<i>Prin. Invest.:</i> K R SRIDHAR		
<i>Tech. Officer:</i> LARC/S P WALKER			<i>Tech. Officer:</i> GRC/J S LING, GRC/B S SINGH		
<i>CASE Category:</i> 46 – MECHANICAL ENGR			<i>CASE Category:</i> 13 – PHYSICS		

NAG 3 2354 **UNIV OF ARIZONA** **1396**
 RESONANCE EFFECTS IN SINGLE-AND DOUBLE-DIFFUSIVE SYSTEMS
 UNDER GRAVITY MODULATION
 03/15/2000 - 11/30/2003 FY01: \$95,000 Total: \$145,000
Prin. Invest.: C F CHEN
Tech. Officer: GRC/C E NIEDERHAUS
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 637 **UNIV OF ARIZONA** **1397**
 EUV SPECTRAL IMAGER
 07/11/1986 - 09/30/2000 FY01: \$0 Total: \$1,411,282
Prin. Invest.: A L BROADFOOT
Tech. Officer: GSFC/L J EARLY, GSFC/R H PLESS
CASE Category: 13 - PHYSICS

NAG 5 2962 **UNIV OF ARIZONA** **1398**
 X-RAY SPECTRUM OF THE HIGH REDSHIFT QUASAR B1422+ 23
 06/09/1995 - 06/14/2000 FY01: -\$1,197 Total: \$53,744
Prin. Invest.: J BECHTOLD
Tech. Officer: GSFC/N WHITE
CASE Category: 11 - ASTRONOMY

NAG 5 3436 **UNIV OF ARIZONA** **1399**
 ABSOLUTE RADIOMETRIC CALIBRATION AND ATMOSPHERIC CORRECTION
 OF LANDSAT-7 THEMATIC MAPPER.
 10/07/1996 - 06/30/2001 FY01: \$44,817 Total: \$693,679
Prin. Invest.: C J THOME
Tech. Officer: GSFC/D L WILLIAMS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 3631 **UNIV OF ARIZONA** **1400**
 PLANET FORMATION AND EVOLUTION: COLLISIONAL AND
 02/12/1997 - 09/30/2001 FY01: \$86,200 Total: \$426,690
Prin. Invest.: R GREENBERG
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 3640 **UNIV OF ARIZONA** **1401**
 UTILIZATION OF EOS DATA IN QUANTIFYING THE PROCESS HYDROLOGIC
 CYCLE IN ARID/SEMI-ARID REGIONS
 02/12/1997 - 03/31/2002 FY01: \$168,706 Total: \$2,809,008
Prin. Invest.: S SOROOSHAIN
Tech. Officer: GSFC/E Y WOOD
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 3785 **UNIV OF ARIZONA** **1402**
 SUB-MILLIMETER SPECTROSCOPY OF ASTROPHYSICALLY-IMP G
 MOLECULES
 03/28/1997 - 11/30/2000 FY01: \$0 Total: \$228,000
Prin. Invest.: L M ZIURYS
Tech. Officer: GSFC/G STRINGFELLOW
CASE Category: 11 - ASTRONOMY

NAG 5 3791 **UNIV OF ARIZONA** **1403**
 A STUDY OF DUST JET EVOLUTION IN COMET HALLEY
 03/07/1997 - 02/28/2002 FY01: \$59,900 Total: \$233,634
Prin. Invest.: M M LARSON
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 3796 **UNIV OF ARIZONA** **1404**
 RELATIVE ABUNDANCES OF ¹³C, ¹⁸O, ¹⁵N AND ²H ON TRI B
 MEASUREMENTS AND REFLECTANCE SPECTROSCOPY
 03/11/1997 - 03/14/2002 FY01: \$85,100 Total: \$421,245
Prin. Invest.: D H BROWN
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 3914 **UNIV OF ARIZONA** **1405**
 SUPPORT FOR THE SPACE IMAGERY CENTER
 02/21/1997 - 12/31/2000 FY01: \$0 Total: \$78,601
Prin. Invest.: R G STROM
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 3937 **UNIV OF ARIZONA** **1406**
 PLANETARY SPECTROSCOPY
 03/26/1997 - 07/31/2001 FY01: \$0 Total: \$267,280
Prin. Invest.: D FINK
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 - ASTRONOMY

NAG 5 4042 **UNIV OF ARIZONA** **1407**
 STABILIZATION OF CCD QUANTUM EFFICIENCY IN THE ULT
 04/07/1997 - 09/14/2000 FY01: -\$28 Total: \$273,220
Prin. Invest.: D P LESSER
Tech. Officer: GSFC/H HASAN
CASE Category: 11 - ASTRONOMY

NAG 5 4084 **UNIV OF ARIZONA** **1408**
 GEOCHEMICAL EVOLUTION OF THE EARTH, MOON, IGNEOUS TERRESTRIAL
 PLANETARY BODIES
 03/10/1997 - 06/30/2000 FY01: -\$434 Total: \$659,566
Prin. Invest.: D J DRAKE
Tech. Officer: HQ/J BOYCE
CASE Category: 12 - CHEMISTRY

NAG 5 4124 **UNIV OF ARIZONA** **1409**
 SAR INVESTIGATIONS OF LATE PLEISTOCENE PALEOFLOODS PALEOCLI-
 MATES IN CENTRAL ASIA
 03/05/1997 - 01/31/2001 FY01: -\$10 Total: \$178,855
Prin. Invest.: V R BAKER
Tech. Officer: GSFC/R H THOMAS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 4142 **UNIV OF ARIZONA** **1410**
 INFRARED EMISSION SPECTROSCOPY OF ASTROPHYSICAL MO
 04/22/1997 - 03/31/2000 FY01: -\$194 Total: \$224,806
Prin. Invest.: D F BERNATH
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 - ASTRONOMY

NAG 5 4166 **UNIV OF ARIZONA** **1411**
 OBSERVATIONAL STUDIES OF PLANETARY ATMOSPHERES
 03/15/1997 - 03/14/2000 FY01: -\$1 Total: \$180,005
Prin. Invest.: D M HUNTEN
Tech. Officer: GSFC/W HUEBNER
CASE Category: 11 - ASTRONOMY

NAG 5 4214	UNIV OF ARIZONA	1412	NAG 5 4984	UNIV OF ARIZONA	1421
INTERIORS AND ATMOSPHERES OF THE OUTER PLANETS			MEASURING MARTIAN ATMOSPHERIC WATER VAPOR		
03/24/1997 – 12/31/2001	FY01: \$71,291	Total: \$336,648	06/26/1997 – 03/14/2000	FY01: -\$333	Total: \$192,734
<i>Prin. Invest.:</i> D B HUBBARD			<i>Prin. Invest.:</i> D L SPRAGUE		
<i>Tech. Officer:</i> GSFC/J BERGSTRALH			<i>Tech. Officer:</i> GSFC/W HUEBNER		
<i>CASE Category:</i> 11 – ASTRONOMY			<i>CASE Category:</i> 11 – ASTRONOMY		
NAG 5 4451	UNIV OF ARIZONA	1413	NAG 5 5143	UNIV OF ARIZONA	1422
STUDIES IN PLANETARY RINGS			A TWO-DIMENSIONAL IMAGING FUV SPECTROGRAPH		
05/08/1997 – 06/30/2001	FY01: -\$22,474	Total: \$154,426	06/23/1997 – 10/31/2000	FY01: -\$19	Total: \$672,970
<i>Prin. Invest.:</i> D C PORCO			<i>Prin. Invest.:</i> J HOLBERG		
<i>Tech. Officer:</i> GSFC/PROGERS			<i>Tech. Officer:</i> GSFC/W JOHNSON		
<i>CASE Category:</i> 32 – GEOLOGICAL SCIENCE			<i>CASE Category:</i> 13 – PHYSICS		
NAG 5 4559	UNIV OF ARIZONA	1414	NAG 5 5180	UNIV OF ARIZONA	1423
THEORY OF CHARGED-PARTICLE TRANSPORT AND ASTROPHYS			COSMIC RAY TRANSPORT AND WAVES IN ASTROPHYSICAL PLASMAS		
06/02/1997 – 01/31/2001	FY01: -\$6,961	Total: \$151,339	03/09/1998 – 03/08/2001	FY01: \$0	Total: \$116,000
<i>Prin. Invest.:</i> J JOKIPII			<i>Prin. Invest.:</i> G M WEBB		
<i>Tech. Officer:</i> GSFC/M A FORMAN			<i>Tech. Officer:</i> GSFC/B A MERRITT		
<i>CASE Category:</i> 13 – PHYSICS			<i>CASE Category:</i> 13 – PHYSICS		
NAG 5 4598	UNIV OF ARIZONA	1415	NAG 5 5336	UNIV OF ARIZONA	1424
LONG TERM DOPPLER SHIFT AND LINE PROFILE STUDIES O TARGET STARS			FULL FUNDING FOR THE 1ST YEAR OF THE GRANT FOR \$10 K, PI: G. G. WILLIAMS GRANT TITLE: LOTIS (W/ PARK		
05/20/1997 – 02/28/2002	FY01: \$0	Total: \$410,967	05/31/2001 – 03/31/2002	FY01: \$10,000	Total: \$10,000
<i>Prin. Invest.:</i> D S MCMILLAN			<i>Prin. Invest.:</i> G WILLIAMS		
<i>Tech. Officer:</i> GSFC/J BOYCE			<i>Tech. Officer:</i> WFF/B MERRITT		
<i>CASE Category:</i> 11 – ASTRONOMY			<i>CASE Category:</i> 13 – PHYSICS		
NAG 5 4767	UNIV OF ARIZONA	1416	NAG 5 6339	UNIV OF ARIZONA	1425
NOBLE GAS STUDIES OF EARLY SOLAR SYSTEM HISTORY			VALIDATION AND CORRECTION FOR THE MODIS SPATIAL RE SPONSE		
06/09/1997 – 05/31/2002	FY01: \$55,000	Total: \$228,000	10/02/1997 – 09/30/2001	FY01: \$106,615	Total: \$593,294
<i>Prin. Invest.:</i> D D SWINDLE			<i>Prin. Invest.:</i> R SCHOWENGERDT		
<i>Tech. Officer:</i> GSFC/D NAVA			<i>Tech. Officer:</i> GSFC/D O STARR		
<i>CASE Category:</i> 11 – ASTRONOMY			<i>CASE Category:</i> 19 – PHYSICAL SCIENCE, OTHER		
NAG 5 4832	UNIV OF ARIZONA	1417	NAG 5 6461	UNIV OF ARIZONA	1426
COSMOGENIC 14C IN METEORITES AND LUNAR SAMPLES			LIS VALIDATION STUDIES USING LIGHTNING AT THE KSC- ER		
06/17/1997 – 05/31/2002	FY01: \$35,000	Total: \$175,000	10/14/1997 – 09/30/2000	FY01: \$0	Total: \$225,560
<i>Prin. Invest.:</i> D JULLE			<i>Prin. Invest.:</i> P KRIDER		
<i>Tech. Officer:</i> GSFC/J BOYCE			<i>Tech. Officer:</i> GSFC/D O STARR		
<i>CASE Category:</i> 11 – ASTRONOMY			<i>CASE Category:</i> 19 – PHYSICAL SCIENCE, OTHER		
NAG 5 4834	UNIV OF ARIZONA	1418	NAG 5 6543	UNIV OF ARIZONA	1427
TRANSPORT EQUATIONS OF COSMIC RAYS			IMPACT CRATERING AND THE EVOLUTION OF THE TERRESTR IAL PLANETS		
06/17/1997 – 11/30/2000	FY01: \$0	Total: \$201,585	12/08/1997 – 09/30/2001	FY01: \$150,000	Total: \$592,500
<i>Prin. Invest.:</i> M KOTA			<i>Prin. Invest.:</i> H MELOSH		
<i>Tech. Officer:</i> GSFC/M AFORMAN			<i>Tech. Officer:</i> GSFC/P ROGERS		
<i>CASE Category:</i> 11 – ASTRONOMY			<i>CASE Category:</i> 32 – GEOLOGICAL SCIENCE		
NAG 5 4845	UNIV OF ARIZONA	1419	NAG 5 6611	UNIV OF ARIZONA	1428
GAS-GRAIN INTERACTIONS			SPACEWATCH SURVEY OF THE SOLAR SYSTEM		
06/27/1997 – 10/31/2001	FY01: \$38,000	Total: \$151,900	02/12/1998 – 11/30/2000	FY01: \$0	Total: \$223,215
<i>Prin. Invest.:</i> D L HOOD			<i>Prin. Invest.:</i> R S MCMILLAN		
<i>Tech. Officer:</i> GSFC/J BOYCE			<i>Tech. Officer:</i> GSFC/T MORGAN		
<i>CASE Category:</i> 11 – ASTRONOMY			<i>CASE Category:</i> 32 – GEOLOGICAL SCIENCE		
NAG 5 4944	UNIV OF ARIZONA	1420			
MINERALOGIC AND TRACE-ELEMENT STUDIES OF METEORITE IMPACTS					
06/23/1997 – 03/14/2001	FY01: \$0	Total: \$799,000			
<i>Prin. Invest.:</i> D V BOYNTON					
<i>Tech. Officer:</i> GSFC/D NAVA					
<i>CASE Category:</i> 11 – ASTRONOMY					

NAG 5 6620 **UNIV OF ARIZONA** **1429**
 THEORETICAL AND MODELLING SUPPORT FOR THE HELIOSPHERIC MISSIONS
 11/18/1997 - 11/14/2000 FY01: -\$1,501 Total: \$283,499
Prin. Invest.: J JOKIPPI
Tech. Officer: GSFC/J LING
CASE Category: 11 - ASTRONOMY

NAG 5 6779 **UNIV OF ARIZONA** **1430**
 ANALYSIS OF ICE CORES FOR ESTIMATING ACCUMULATION PATTERNS AND PAST ATMOSPHERIC CHEMISTRY IN GREENLAND
 01/14/1998 - 06/30/2001 FY01: \$0 Total: \$465,595
Prin. Invest.: R BALES
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7073 **UNIV OF ARIZONA** **1431**
 A COMPREHENSIVE THEORY FOR M DWARFS, BROWN DWARFS, AND GIANT PLANETS-ATP
 02/24/1998 - 02/14/2002 FY01: \$0 Total: \$263,467
Prin. Invest.: A S BURROWS
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 7083 **UNIV OF ARIZONA** **1432**
 INFRARED OBSERVATIONS OF SMALL BODIES IN THE OUTER SOLAR SYSTEM
 03/10/1998 - 03/31/2001 FY01: \$0 Total: \$149,939
Prin. Invest.: R H BROWN
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 - ASTRONOMY

NAG 5 7089 **UNIV OF ARIZONA** **1433**
 STRUCTURE OF THE HELIOSPHERE INFERRED FROM VOYAGER UVS MEASUREMENTS
 02/23/1998 - 01/31/2002 FY01: \$0 Total: \$117,700
Prin. Invest.: B R SANDEL
Tech. Officer: GSFC/J LING
CASE Category: 11 - ASTRONOMY

NAG 5 7151 **UNIV OF ARIZONA** **1434**
 THE PHYSICAL ORIGIN OF GALAXY MORPHOLOGIES AND SCALING LAWS-ATP
 03/04/1998 - 03/14/2001 FY01: \$0 Total: \$260,097
Prin. Invest.: M STEINMETZ
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 7211 **UNIV OF ARIZONA** **1435**
 COUPLED PHYSICAL AND CHEMICAL EVOLUTION OF THE SOLAR NEBULA
 03/26/1998 - 01/31/2001 FY01: \$0 Total: \$115,000
Prin. Invest.: J LUNINE
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 7215 **UNIV OF ARIZONA** **1436**
 INCORPORATION OF NOBLE GASES INTO INTERSTELLAR ICE ANALOGS
 03/31/1998 - 05/31/2001 FY01: \$0 Total: \$87,300
Prin. Invest.: T D SWINDLE
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 7257 **UNIV OF ARIZONA** **1437**
 ALGORITHM FOR FUTURE OZONE PROFILING USING LIMB SCATTER MEASUREMENTS
 04/14/1998 - 12/31/2001 FY01: \$0 Total: \$262,000
Prin. Invest.: B M HERMAN
Tech. Officer: GSFC/R D MCPETERS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7364 **UNIV OF ARIZONA** **1438**
 THERMAL HISTORY OF PLANETARY MATERIALS: EXPERIMENTAL & THEORETICAL STUDIES, AND APPLICATIONS
 04/29/1998 - 04/30/2001 FY01: \$0 Total: \$179,000
Prin. Invest.: J GANGULY
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 7499 **UNIV OF ARIZONA** **1439**
 THEORETICAL MODELS OF EXTRASOLAR GIANT PLANETS
 06/01/1998 - 04/30/2001 FY01: \$0 Total: \$145,000
Prin. Invest.: A BURROWS
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 7509 **UNIV OF ARIZONA** **1440**
 METEORITE IMPACT AND GLOBAL CHANGE: A NUMERICAL STUDY OF THE RESPONSE OF THE EARTH'S CLIMATE TO L
 06/30/1998 - 08/31/2000 FY01: -\$2,300 Total: \$92,708
Prin. Invest.: H MELOSH
Tech. Officer: GSFC/M MEYER
CASE Category: 11 - ASTRONOMY

NAG 5 7533 **UNIV OF ARIZONA** **1441**
 MOSAIC OF CCDs TO SURVEY FOR ASTEROIDS AND COMETS
 06/11/1998 - 12/31/2001 FY01: \$0 Total: \$730,006
Prin. Invest.: R S MCMILLAN
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 - ASTRONOMY

NAG 5 7554 **UNIV OF ARIZONA** **1442**
 PRECURSORY SIGNALS ASSOCIATED WITH REGIONAL AND INTERANNUAL VARIABILITY OF THE NORTH AMERICAN SUMMER
 06/25/1998 - 06/30/2001 FY01: \$0 Total: \$399,999
Prin. Invest.: W SHUTTLEWORTH
Tech. Officer: GSFC/E ENGMAN
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 7716 **UNIV OF ARIZONA** **1443**
 IMPROVING SATELLITE RAIN ESTIMATION ALGORITHMS USING COMBINATION OF TRMM INSTANTANEOUS PRECIPITATION
 10/27/1998 - 10/31/2000 FY01: -\$4 Total: \$307,701
Prin. Invest.: S SOROOSHIAN
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7734 **UNIV OF ARIZONA** **1444**
 HEAVY ELEMENT ABUNDANCES: CLUES TO THE EVOLUTION OF STARS
 12/18/1998 - 10/31/2001 FY01: \$104,700 Total: \$342,731
Prin. Invest.: D GARNETT
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 7758	UNIV OF ARIZONA	1445	NAG 5 7957	UNIV OF ARIZONA	1453
2MASS ASTEROID AND COMET CATALOG			TIDAL AND TECTONIC PROCESSES ON EUROPA		
12/08/1998 – 09/30/2001	FY01: \$36,900	Total: \$110,700	01/08/1999 – 12/31/2000	FY01: \$0	Total: \$88,184
<i>Prin. Invest.:</i> M V SYKES			<i>Prin. Invest.:</i> D GREENBERG		
<i>Tech. Officer:</i> GSFC/T MORGAN			<i>Tech. Officer:</i> GSFC/R BEEBE		
<i>CASE Category:</i> 11 – ASTRONOMY			<i>CASE Category:</i> 11 – ASTRONOMY		
NAG 5 7763	UNIV OF ARIZONA	1446	NAG 5 7966	UNIV OF ARIZONA	1454
NEXT GENERATION SPACE TELESCOPE (NGST) AD HOC SCIENCE WORKING GROUP (ASWG) ACTIVITY			STUDY OF SOLAR AND HELIOSPHERIC ENERGETIC IONS VIA ENERGETIC NEUTRALATOMS USING CELIAS/SOHO		
01/14/1999 – 12/31/1999	FY01: \$0	Total: \$10,000	12/15/1998 – 12/31/2001	FY01: \$45,261	Total: \$135,784
<i>Prin. Invest.:</i> M MEYER			<i>Prin. Invest.:</i> K HSIEH		
<i>Tech. Officer:</i> GSFC/E SMITH			<i>Tech. Officer:</i> GSFC/D C LING		
<i>CASE Category:</i> 11 – ASTRONOMY			<i>CASE Category:</i> 11 – ASTRONOMY		
NAG 5 7780	UNIV OF ARIZONA	1447	NAG 5 7994	UNIV OF ARIZONA	1455
WORKSHOP ON SUN–TERRESTRIAL CLIMATE CONNECTIONS			THE MARS LOWER AND UPPER ATMOSPHERE: DETAILED COUP LING USING GENERALCIRCULATION MODELS		
10/29/1998 – 07/31/2001	FY01: \$15,000	Total: \$84,017	01/06/1999 – 01/14/2002	FY01: \$77,000	Total: \$249,896
<i>Prin. Invest.:</i> W A SPRIGG			<i>Prin. Invest.:</i> S BOUGHER		
<i>Tech. Officer:</i> GSFC/J SHARBER			<i>Tech. Officer:</i> GSFC/J BERGSTRALH		
<i>CASE Category:</i> 11 – ASTRONOMY			<i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE		
NAG 5 7793	UNIV OF ARIZONA	1448	NAG 5 8006	UNIV OF ARIZONA	1456
THEORY AND MODELING OF ENERGETIC PARTICLE COMPOSIT ION SPECTRA ANDANISOTROPIES AND TIME VARIA			OBSERVATIONS OF TWO COMET–ASTEROID TRANSITION OBJE CTS		
12/10/1998 – 10/31/2001	FY01: \$104,688	Total: \$280,414	01/06/1999 – 01/14/2001	FY01: \$0	Total: \$16,283
<i>Prin. Invest.:</i> J GIACALONE			<i>Prin. Invest.:</i> D CAMPINS		
<i>Tech. Officer:</i> GSFC/D C LING			<i>Tech. Officer:</i> GSFC/T MORGAN		
<i>CASE Category:</i> 11 – ASTRONOMY			<i>CASE Category:</i> 11 – ASTRONOMY		
NAG 5 7834	UNIV OF ARIZONA	1449	NAG 5 8015	UNIV OF ARIZONA	1457
A COMPARISON OF OBSERVATIONS AND GCM SIMULATIONS O F THE QUASI-DECADAL OSCILLATION			CATALINA NEO SKY SURVEY		
12/14/1998 – 12/14/2000	FY01: \$0	Total: \$84,444	01/13/1999 – 12/31/2000	FY01: \$0	Total: \$582,600
<i>Prin. Invest.:</i> L L HOOD			<i>Prin. Invest.:</i> S LARSON		
<i>Tech. Officer:</i> GSFC/R RIND			<i>Tech. Officer:</i> GSFC/T MORGAN		
<i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE			<i>CASE Category:</i> 11 – ASTRONOMY		
NAG 5 7854	UNIV OF ARIZONA	1450	NAG 5 8051	UNIV OF ARIZONA	1458
SOLAR SYSTEM RESEARCH WITH THE SPACEWATCH 1.8–M TE LESCOPE			GALILEO EUV OBSERVATIONS OF IO'S PLASMA TORUS AND JUPITER'S ATMOSPHERE		
12/07/1998 – 11/30/2001	FY01: \$130,000	Total: \$382,450	01/13/1999 – 01/14/2001	FY01: \$0	Total: \$114,918
<i>Prin. Invest.:</i> D S MCMILLAN			<i>Prin. Invest.:</i> D HERBERT		
<i>Tech. Officer:</i> GSFC/T MORGAN			<i>Tech. Officer:</i> GSFC/R BEEBE		
<i>CASE Category:</i> 11 – ASTRONOMY			<i>CASE Category:</i> 11 – ASTRONOMY		
NAG 5 7865	UNIV OF ARIZONA	1451	NAG 5 8095	UNIV OF ARIZONA	1459
ACTIVE VOLCANISM ON IO			PRESERVATION AND ENHANCEMENT OF THE SPACEWATCH DAT A ARCHIVES		
01/12/1999 – 12/31/2000	FY01: –\$1	Total: \$129,999	01/29/1999 – 01/31/2002	FY01: \$36,700	Total: \$127,278
<i>Prin. Invest.:</i> D S MCEWEN			<i>Prin. Invest.:</i> J A LARSEN		
<i>Tech. Officer:</i> GSFC/R BEEBE			<i>Tech. Officer:</i> GSFC/P HUNTER		
<i>CASE Category:</i> 11 – ASTRONOMY			<i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER		
NAG 5 7923	UNIV OF ARIZONA	1452	NAG 5 8117	UNIV OF ARIZONA	1460
HUBBLE SPACE TELESCOPE ASTRONOMY			COMBINED LIDAR AND RASSIVE SENSING TECHNIQUES FOR CHARACTERIZATION OF AEROSOL RADIATIVE EFFECTS		
12/14/1998 – 09/30/2001	FY01: –\$1,633,017	Total: \$5,683,316	01/26/1999 – 01/31/2002	FY01: \$105,000	Total: \$314,862
<i>Prin. Invest.:</i> R THOMPSON			<i>Prin. Invest.:</i> J A REAGAN		
<i>Tech. Officer:</i> GSFC/J JELETIC			<i>Tech. Officer:</i> GSFC/M MISHCHENKO		
<i>CASE Category:</i> 11 – ASTRONOMY			<i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE		

NAG 5 8152 **UNIV OF ARIZONA** **1461**
 MARS GLOBAL SURVEYOR AEROBRAKING: THERMOSPHERE- IONOSPHERE
 TRENDS & MTGCM INTERPRETATION
 02/11/1999 - 03/31/2001 FY01: \$0 Total: \$125,300
Prin. Invest.: S W BOUGHER
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8157 **UNIV OF ARIZONA** **1462**
 SUPPORT AN EXTENSION SPECIALIST IN GEOSPATIAL INFORMATION
 TECHNOLOGY FOR THE STATE OF ARIZONA
 02/05/1999 - 01/31/2002 FY01: \$149,400 Total: \$399,349
Prin. Invest.: D YOUNG
Tech. Officer: GSFC/A TUYAHOV
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8185 **UNIV OF ARIZONA** **1463**
 ANALYSIS OF THE CRUSTAL MAGNETIC FIELD OF MARS
 02/17/1999 - 02/28/2002 FY01: \$42,000 Total: \$124,200
Prin. Invest.: L L HOOD
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8214 **UNIV OF ARIZONA** **1464**
 INFLUENCE OF SUBGRID-SCALE HETEROGENEITY ON REMOTELY
 SENSED ESTIMATES OF THE AMAZONIAN SURFACE EN
 03/01/1999 - 02/28/2002 FY01: \$20,276 Total: \$60,001
Prin. Invest.: J W SHUTTLEWORTH
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8239 **UNIV OF ARIZONA** **1465**
 A COMPREHENSIVE THEORETICAL STUDY OF THE INNER 10 PARSECS AT
 THE GALACTIC CENTER (ATP98)
 02/26/1999 - 02/28/2002 FY01: \$64,000 Total: \$182,404
Prin. Invest.: F MELIA
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8308 **UNIV OF ARIZONA** **1466**
 QUANTITATIVE INTERPRETATION OF VOLCANIC FEATURES IN MOC
 IMAGES
 03/03/1999 - 11/30/2001 FY01: \$0 Total: \$94,300
Prin. Invest.: L KESZTHELYI
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8340 **UNIV OF ARIZONA** **1467**
 COLORIMETRY OF THE GALILEAN SATELLITES
 04/07/1999 - 03/31/2001 FY01: \$0 Total: \$74,784
Prin. Invest.: D E GEISSLER
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 - ASTRONOMY

NAG 5 8341 **UNIV OF ARIZONA** **1468**
 MODELS AND MODES OF ENABLING THE USE OF NASA EARTH SCIENCE
 AND DATA IN DECISION MAKING
 04/07/1999 - 12/31/2001 FY01: \$240,000 Total: \$580,000
Prin. Invest.: S E MARSH
Tech. Officer: GSFC/A TUYAHOV
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8349 **UNIV OF ARIZONA** **1469**
 ACCURATE SPECTROPHOTOMETRY OF THE PATHFINDER LANDING SITE
 02/26/1999 - 02/28/2001 FY01: \$0 Total: \$145,000
Prin. Invest.: P H SMITH
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8426 **UNIV OF ARIZONA** **1470**
 MULTIWAVELENGTH DIAGNOSTICS OF GALAXY EVOLUTION AND STAR
 FORMATION LTA98
 04/26/1999 - 04/30/2002 FY01: \$125,168 Total: \$365,832
Prin. Invest.: R C KENNICUTT
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8502 **UNIV OF ARIZONA** **1471**
 SUPPORT OF ACTIVITIES AND OPERATION OF THE GLOBAL ENERGY AND
 WATER CYCLE EXPERIMENT SCIENCE STATION
 05/11/1999 - 05/14/2002 FY01: \$183,743 Total: \$507,641
Prin. Invest.: S ROROOSHIAN
Tech. Officer: GSFC/R SCHIEFFER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8503 **UNIV OF ARIZONA** **1472**
 AN INTEGRATED INFORMATION SYSTEM FOR MULTI-PURPOSE USER-
 ADAPTIVE ACCESS TO LAND SURFACE HYDROLOGIC
 05/11/1999 - 05/14/2002 FY01: \$500,127 Total: \$1,052,325
Prin. Invest.: S SOROOSHIAN
Tech. Officer: GSFC/E WOOD
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8509 **UNIV OF ARIZONA** **1473**
 IMPLICATIONS OF VOLATILE ICE EMISSIONS FOR GASES AROUND
 TRANS-NEPTUNIAN OBJECTS
 06/02/1999 - 06/30/2000 FY01: -\$326 Total: \$30,874
Prin. Invest.: J STANSBERRY
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 - ASTRONOMY

NAG 5 8660 **UNIV OF ARIZONA** **1474**
 VALIDATION OF MODLAND PRODUCTS WITH LIGHT AIRCRAFT AT LBA AND
 COMMUNITY SITES WITH EQUALS.
 08/31/1999 - 08/31/2001 FY01: \$0 Total: \$30,000
Prin. Invest.: A HAUTE
Tech. Officer: GSFC/J PRIVETTE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8686 **UNIV OF ARIZONA** **1475**
 MEMBERSHIP TO THE AEROSOL RADIATIVE FORCING SCIENCE TEAM
 07/16/1999 - 07/14/2002 FY01: \$13,053 Total: \$39,297
Prin. Invest.: K J THOME
Tech. Officer: GSFC/M I MISHCHENKO
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 8843 **UNIV OF ARIZONA** **1476**
 THE PLANET-B NEUTRAL MASS SPECTROMETER: THERMOSPHERE-IONOSPHERE
 STUDIES USING THE MTGCM
 10/05/1999 - 10/14/2001 FY01: \$0 Total: \$50,000
Prin. Invest.: S W BOUGHER
Tech. Officer: GSFC/J E RICHARDS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 8908 **UNIV OF ARIZONA** **1477**
 COMPARATIVE PLANETARY GEOMORPHOLOGY
 12/29/1999 – 12/31/2000 FY01: -\$113 Total: \$19,887
Prin. Invest.: V R BAKER
Tech. Officer: GSFC/J GRANT
CASE Category: 11 – ASTRONOMY

NAG 5 8911 **UNIV OF ARIZONA** **1478**
 COPERNICAN CRATERS AND THE PHANEROZOIC IMPACT FLUX
 12/29/1999 – 01/31/2002 FY01: \$43,000 Total: \$83,850
Prin. Invest.: A S MCEWEN
Tech. Officer: GSFC/J GRANT
CASE Category: 11 – ASTRONOMY

NAG 5 8916 **UNIV OF ARIZONA** **1479**
 THE COMPOSITION OF HYDRATED M AND E-CLASS ASTEROID S: A
 SEARCH FOR ANALOGS
 01/05/2000 – 12/31/2000 FY01: -\$4 Total: \$21,996
Prin. Invest.: A RIVKIN
Tech. Officer: GSFC/J A GRANT
CASE Category: 11 – ASTRONOMY

NAG 5 8937 **UNIV OF ARIZONA** **1480**
 NUMERICAL MODELING OF TECTONIC PROCESSES AND METORITE
 IMPACTS ON THE GALILEAN SATELLITES
 01/13/2000 – 01/14/2002 FY01: \$45,000 Total: \$85,000
Prin. Invest.: E P TURTLE
Tech. Officer: GSFC/D BOGAN
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 8941 **UNIV OF ARIZONA** **1481**
 CYCLODIAL LINEAMENTS AND TIDAL TECTONICS ON EUROPA
 01/13/2000 – 01/14/2002 FY01: \$55,000 Total: \$105,000
Prin. Invest.: R GREENBERG
Tech. Officer: GSFC/D BOGAN
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 8949 **UNIV OF ARIZONA** **1482**
 THEORETICAL STUDIES OF VOLATILE PROCESSES IN SOLAR SYSTEM
 BODIES
 01/19/2000 – 01/31/2002 FY01: \$30,000 Total: \$58,260
Prin. Invest.: J I LUNINE
Tech. Officer: GSFC/D BOGAN
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 8952 **UNIV OF ARIZONA** **1483**
 IO AND ITS PLASMA TORUS: ATMOSPHERE-MAGNETOSPHERE INTER-
 ACTIONS
 01/21/2000 – 12/31/2001 FY01: \$56,400 Total: \$109,340
Prin. Invest.: F HERBERT
Tech. Officer: GSFC/D BOGAN
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 8970 **UNIV OF ARIZONA** **1484**
 HYDROCARBONS IN JUPITER'S TROPOSPHERE
 01/24/2000 – 01/14/2002 FY01: \$50,500 Total: \$101,000
Prin. Invest.: D HUNTEN
Tech. Officer: GSFC/D BOGAN
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 8995 **UNIV OF ARIZONA** **1485**
 THREE RELATED PROGRAMS ON WHITE DWARFS FUSE
 01/24/2000 – 01/31/2001 FY01: \$0 Total: \$37,700
Prin. Invest.: J B HOLBERG
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 – ASTRONOMY

NAG 5 9072 **UNIV OF ARIZONA** **1486**
 AN ALL-METAL CASSEGRAIN TELESCOPE FOR SPACE APPLICATIONS
 02/15/2000 – 02/14/2003 FY01: \$80,000 Total: \$155,360
Prin. Invest.: J HOLBERG
Tech. Officer: GSFC/P CRANE
CASE Category: 11 – ASTRONOMY

NAG 5 9079 **UNIV OF ARIZONA** **1487**
 ELECTRON TEMPERATURE IN THE IO PLASMA TORUS: THE KEY TO
 UNDERSTANDING TORUS ENERGY FLOW
 02/23/2000 – 02/28/2002 FY01: \$76,145 Total: \$128,945
Prin. Invest.: F L HERBERT
Tech. Officer: GSFC/J SHARBER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 9081 **UNIV OF ARIZONA** **1488**
 NEO FOLLOWUP OBSERVATIONS TO THE NASA NEAR EARTH OBJECTS
 OBSERVATIONS PROGRAM
 02/16/2000 – 02/14/2002 FY01: \$56,000 Total: \$142,664
Prin. Invest.: S M LARSON
Tech. Officer: GSFC/T H MORGAN
CASE Category: 11 – ASTRONOMY

NAG 5 9100 **UNIV OF ARIZONA** **1489**
 MICROMACHINING OF THZ WAVEGUIDE AND QUASI-OPTICAL
 COMPONENTS FOR SUB-ORBITAL AND SPACE-BORNE DETE
 02/24/2000 – 01/31/2002 FY01: \$125,000 Total: \$303,000
Prin. Invest.: C K WALKER
Tech. Officer: GSFC/G STRINGFELLOW
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 9112 **UNIV OF ARIZONA** **1490**
 EFFECTS OF LITHOLOGIES ON IMPACT CRATERING: NUMERICAL
 MODELING OF KNOWN TERRESTRIAL CRATERS
 02/28/2000 – 02/28/2002 FY01: \$42,000 Total: \$81,900
Prin. Invest.: E PIERAZZO
Tech. Officer: GSFC/J GRANT
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 9174 **UNIV OF ARIZONA** **1491**
 PLANNING, COORDINATION, MATERIALS PREPARATION & MARKET SURVEY
 FOR REGIONAL INFORMATIONAL WORKS
 03/06/2000 – 12/31/2001 FY01: \$0 Total: \$375,493
Prin. Invest.: C F HUTCHINSON
Tech. Officer: GSFC/A TUYAHOV
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 9176 **UNIV OF ARIZONA** **1492**
 INVESTIGATION OF EXTREME TEMPERATURE VOLCANISM ON IO
 03/08/2000 – 03/31/2002 FY01: \$0 Total: \$47,500
Prin. Invest.: L KESZTHELYI
Tech. Officer: GSFC/J GRANT
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 9181 **UNIV OF ARIZONA** **1493**
 ESTABLISHMENT OF ABSOLUTE SPECTROPHOTOMETRIC STANDARD
 STARS FROM 100 A TO 10,000 A – ADP99
 03/07/2000 – 03/14/2002 FY01: \$38,412 Total: \$86,434
Prin. Invest.: J HOLBERG
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 9182 **UNIV OF ARIZONA** **1494**
 ANALYSIS OF THE IUE LOW DISPERSION SPECTRA OF THE WHITE DWARF
 STARS ADP99
 03/07/2000 – 03/14/2002 FY01: \$41,727 Total: \$90,528
Prin. Invest.: J HOLBERG, NONE
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 9198 **UNIV OF ARIZONA** **1495**
 AN IN SITU GEOCHRONOLOGY SYSTEM BASED ON LASER-INDUCED
 BREAKDOWN SPECTROSCOPY & NOBLE GAS MA
 03/09/2000 – 03/14/2003 FY01: \$215,688 Total: \$415,884
Prin. Invest.: T SWINDLE
Tech. Officer: GSFC/B BETTS
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 9205 **UNIV OF ARIZONA** **1496**
 A MULTI-WAVELENGTH STUDY OF THE INNER 50 PC-REGION AT THE
 GALACTIC CENTER (LTS99)
 03/14/2000 – 03/14/2002 FY01: \$31,724 Total: \$89,590
Prin. Invest.: F MELIA
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 9208 **UNIV OF ARIZONA** **1497**
 LIS VALIDATION STUDIES USING LIGHTNING AT THE KSC- ER
 03/23/2000 – 03/31/2002 FY01: \$0 Total: \$99,754
Prin. Invest.: P KRIDER
Tech. Officer: GSFC/D O STARR
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 9234 **UNIV OF ARIZONA** **1498**
 MEASURING MARTIAN ATMOSPHERIC WATER VAPOR & CARBON DIOXIDE
 03/23/2000 – 03/21/2001 FY01: \$0 Total: \$45,000
Prin. Invest.: A L SPRAGUE
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 – ASTRONOMY

NAG 5 9293 **UNIV OF ARIZONA** **1499**
 REMOTE SENSING FOR DEBRIS FLOODING HAZARD ASSESSMENT IN ARID
 REGIONS.
 03/24/2000 – 03/31/2002 FY01: \$93,750 Total: \$150,000
Prin. Invest.: V R BAKER
Tech. Officer: GSFC/H V FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 9306 **UNIV OF ARIZONA** **1500**
 QUASARS AS PROBES (LTS99)
 03/20/2000 – 03/31/2002 FY01: \$102,450 Total: \$200,872
Prin. Invest.: C D IMPEY
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 9325 **UNIV OF ARIZONA** **1501**
 NGST AD HOC SCIENCE WORKING GROUP (ASWG) SUPPORT
 03/22/2000 – 03/14/2001 FY01: \$0 Total: \$15,150
Prin. Invest.: M MEYER
Tech. Officer: GSFC/E P SMITH
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 5 9405 **UNIV OF ARIZONA** **1502**
 "PRECISION MINING" OF LARGE SPECTRAL DATA VOLUMES FOR RAPID
 IDENTIFICATION OF PLANETARY RESOURCES
 04/10/2000 – 10/14/2000 FY01: -\$119,299 Total: \$65,001
Prin. Invest.: E MERENYI
Tech. Officer: GSFC/J BREDEKAMP
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 9408 **UNIV OF ARIZONA** **1503**
 A DATABASE OF THE WHITE DWARF STARS
 04/11/2000 – 04/30/2002 FY01: \$125,200 Total: \$274,500
Prin. Invest.: J HOLBERG
Tech. Officer: GSFC/J BREDEKAMP
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 9425 **UNIV OF ARIZONA** **1504**
 PENETRATOR-BASED SAMPLE COLLECTION OF COMETS AND OTHER
 SMALL BODIES
 04/17/2000 – 04/29/2002 FY01: \$240,116 Total: \$432,791
Prin. Invest.: W BOYNTON
Tech. Officer: GSFC/B BETTS
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 9435 **UNIV OF ARIZONA** **1505**
 GEOCHEMICAL EVOLUTION OF THE EARTH, MOON, IGNEOUS METEORITES
 & OTHER TERRESTRIAL PLANETARY BODIES
 04/24/2000 – 12/31/2001 FY01: \$222,000 Total: \$444,000
Prin. Invest.: M J DRAKE
Tech. Officer: GSFC/J BOYCE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 9465 **UNIV OF ARIZONA** **1506**
 A SOUTHERN HEMISPHERE NEO SURVEY
 04/18/2000 – 03/31/2003 FY01: \$113,000 Total: \$213,323
Prin. Invest.: S LARSON
Tech. Officer: GSFC/T MORGAN
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 9549 **UNIV OF ARIZONA** **1507**
 IMPROVING SATELLITE RAIN EST. ALGORITHMS USING A COMBO. OF
 TRMM INSTANTANEOUS PRECIP. RETRIEVALS
 06/19/2000 – 11/30/2001 FY01: \$107,000 Total: \$163,110
Prin. Invest.: S SOROOSHIAN
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 9577 **UNIV OF ARIZONA** **1508**
 INFRARED EMISSION SPECTROSCOPY OF ASTROPHYSICAL MOLECULES
 05/17/2000 – 04/30/2001 FY01: \$0 Total: \$20,000
Prin. Invest.: D F BERNATH
Tech. Officer: GSFC/G STRINGFELLOW
CASE Category: 11 – ASTRONOMY

NAG 5 9609	UNIV OF ARIZONA	1509	NAG 5 10123	UNIV OF ARIZONA	1517
STUDY OF STAR AND PLANETARY SYSTEM FORMATION			SAR INVESTIGATIONS OF LATE PLEISTOCENE PALEOFLOODS PALEO-LAKES, AND PALEOCLIMATE		
05/18/2000 – 03/14/2002	FY01: \$19,712	Total: \$54,712	11/28/2000 – 11/30/2001	FY01: \$50,000	Total: \$50,000
<i>Prin. Invest.:</i> A CAMERON			<i>Prin. Invest.:</i> V BAKER		
<i>Tech. Officer:</i> GSFC/J BOYCE/N			<i>Tech. Officer:</i> GSFC/W ABDALATI		
<i>CASE Category:</i> 11 – ASTRONOMY			<i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER		
NAG 5 9691	UNIV OF ARIZONA	1510	NAG 5 10162	UNIV OF ARIZONA	1518
A STUDY OF DUST IN AND AROUND GALAXIES			SURFACE CHANGES ON IO		
06/26/2000 – 11/14/2001	FY01: \$81,100	Total: \$181,283	12/20/2000 – 12/31/2001	FY01: \$45,000	Total: \$45,000
<i>Prin. Invest.:</i> D F ZARITSKY			<i>Prin. Invest.:</i> P GEISSLER		
<i>Tech. Officer:</i> GSFC/R OLIVERSEN			<i>Tech. Officer:</i> GSFC/D SENSKE		
<i>CASE Category:</i> 11 – ASTRONOMY			<i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER		
NAG 5 9775	UNIV OF ARIZONA	1511	NAG 5 10166	UNIV OF ARIZONA	1519
CHARACTERIZATION OF THE MARTIAN SURFACE FOR FUTURE MISSIONS			OBSERVATIONS AND NUMERICAL MODELING OF TECTONIC PROCESSES ON IO		
06/30/2000 – 06/30/2002	FY01: \$37,800	Total: \$75,600	01/04/2001 – 11/30/2001	FY01: \$50,000	Total: \$50,000
<i>Prin. Invest.:</i> A S MCEWEN			<i>Prin. Invest.:</i> E TURTLER		
<i>Tech. Officer:</i> GSFC/J BOYCE			<i>Tech. Officer:</i> GSFC/D SENSKE		
<i>CASE Category:</i> 11 – ASTRONOMY			<i>CASE Category:</i> 32 – GEOLOGICAL SCIENCE		
NAG 5 9790	UNIV OF ARIZONA	1512	NAG 5 10167	UNIV OF ARIZONA	1520
IDENTIFICATION OF MARTIAN HYDROTHERMAL SITES: A GEOLOGIC INVESTIGATION UTILIZING MULTIPLE DATASETS			TIDAL TECTONIC PROCESSES ON EUROPA: DISPLACEMENTS, STRESS AND CYCLOIDS		
07/11/2000 – 07/31/2002	FY01: \$60,000	Total: \$120,000	01/04/2001 – 11/30/2001	FY01: \$50,000	Total: \$50,000
<i>Prin. Invest.:</i> V R BAKER			<i>Prin. Invest.:</i> R TUFTS		
<i>Tech. Officer:</i> GSFC/J BOYCE			<i>Tech. Officer:</i> GSFC/D SENSKE		
<i>CASE Category:</i> 11 – ASTRONOMY			<i>CASE Category:</i> 32 – GEOLOGICAL SCIENCE		
NAG 5 9796	UNIV OF ARIZONA	1513	NAG 5 10174	UNIV OF ARIZONA	1521
REPRESENTING HETEROGENEOUS VEGETATION IN THE CPTC ETA MODELS			IMPROVING REGIONAL AND GLOBAL RAINFALL ESTIMATES USING THE COMBINATIONS OF TRMM SATELLITE OBSERVATIONS		
07/20/2000 – 09/30/2002	FY01: \$47,768	Total: \$93,586	12/21/2000 – 12/31/2001	FY01: \$77,500	Total: \$77,500
<i>Prin. Invest.:</i> W SHUTTLEWORTH			<i>Prin. Invest.:</i> S SOROOSHIAN		
<i>Tech. Officer:</i> GSFC/P R HOUSER			<i>Tech. Officer:</i> GSFC/A J NEGRI		
<i>CASE Category:</i> 39 – ENVIRONMENTAL SCI, OTHER			<i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE		
NAG 5 9803	UNIV OF ARIZONA	1514	NAG 5 10205	UNIV OF ARIZONA	1522
SO/GSFC SUPER-LOTIS PROJECT COLLABORATION			INFRARED & NEAR INFRARED SPECTROSCOPY OF ASTROPHYSICAL MOLECULES		
07/19/2000 – 07/31/2001	FY01: \$11,444	Total: \$31,444	12/28/2000 – 12/31/2001	FY01: \$80,000	Total: \$80,000
<i>Prin. Invest.:</i> B PETERSON			<i>Prin. Invest.:</i> P BERNATH		
<i>Tech. Officer:</i> GSFC/N GEHRELS			<i>Tech. Officer:</i> GSFC/G STRINGFELLOW		
<i>CASE Category:</i> 11 – ASTRONOMY			<i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER		
NAG 5 9957	UNIV OF ARIZONA	1515	NAG 5 10245	UNIV OF ARIZONA	1523
XMM OBSERVATIONS OF ISOLATED ELLIPTICAL GALAXIES			ACCRETION ONTO MAGNETIC WHITE DWARFS (FUSE 00)		
09/13/2000 – 09/14/2002	FY01: \$17,500	Total: \$45,500	02/12/2001 – 02/14/2002	FY01: \$7,455	Total: \$7,455
<i>Prin. Invest.:</i> A I ZABLUDOFF			<i>Prin. Invest.:</i> G SCHMIDT		
<i>Tech. Officer:</i> GSFC/R MUSHOTZKY			<i>Tech. Officer:</i> GSFC/G SONNEBORN		
<i>CASE Category:</i> 11 – ASTRONOMY			<i>CASE Category:</i> 11 – ASTRONOMY		
NAG 5 10007	UNIV OF ARIZONA	1516	NAG 5 10264	UNIV OF ARIZONA	1524
ASSESSMENT OF GRANT PROGRAM UNDER CENTERS OF EXCELLENCE IN APPLICATIONS OF REMOTE SENSING IN REGION			ANALYSIS OF ICE CORES FOR ESTIMATING ACCUMULATION PATTERNS AND THE INFLUENCE OF ACCUMULATION ON ICE		
09/20/2000 – 09/30/2002	FY01: \$0	Total: \$59,410	01/09/2001 – 12/31/2001	FY01: \$149,978	Total: \$149,978
<i>Prin. Invest.:</i> M W WALLENDORF			<i>Prin. Invest.:</i> R BALES		
<i>Tech. Officer:</i> GSFC/M WEI			<i>Tech. Officer:</i> GSFC/W ABDALATI		
<i>CASE Category:</i> 39 – ENVIRONMENTAL SCI, OTHER			<i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER		

NAG 5 10267 **UNIV OF ARIZONA** **1525**
 RETRIEVING BI-REFLECTANCE SPECTRA OF ROCKS ILLUMI- NATED BY
 DIRECT SUNLIGHT & BRIGHT SKY:A RE-E
 01/08/2001 – 12/31/2001 FY01: \$114,200 Total: \$114,200
Prin. Invest.: P H SMITH
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 10294 **UNIV OF ARIZONA** **1526**
 EVOLUTION OF VOLATILES IN THE SOLAR SYSTEM
 02/08/2001 – 02/14/2002 FY01: \$30,000 Total: \$30,000
Prin. Invest.: J I LUNINE
Tech. Officer: GSFC/D SENSKE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 10315 **UNIV OF ARIZONA** **1527**
 A FUSE SEARCH FOR NITROGEN AND CARBON IN HOT WHITE DWARFS –
 FUSE 2000
 01/26/2001 – 01/31/2002 FY01: \$46,300 Total: \$46,300
Prin. Invest.: J B HOLBERG
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 – ASTRONOMY

NAG 5 10332 **UNIV OF ARIZONA** **1528**
 SUPPORT FOR SPACE IMAGERY CENTER NASA REGIONAL PLANETARY
 IMAGE FACILITY
 01/30/2001 – 01/31/2002 FY01: \$25,000 Total: \$25,000
Prin. Invest.: D KRING
Tech. Officer: GSFC/D SENSKE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 10333 **UNIV OF ARIZONA** **1529**
 SUB-MILLIMETER SPECTROSCOPY OF ASTROPHYSICALLY IMPORTANT
 METAL-CONTAINING MOLECULES
 01/30/2001 – 01/31/2002 FY01: \$72,000 Total: \$72,000
Prin. Invest.: L ZIURYS
Tech. Officer: GSFC/G STRINGFELLOW
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10346 **UNIV OF ARIZONA** **1530**
 KUIPER BELT DYNAMICS
 02/01/2001 – 02/14/2002 FY01: \$40,000 Total: \$40,000
Prin. Invest.: R MALHOTRA
Tech. Officer: GSFC/D SENSKE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 10441 **UNIV OF ARIZONA** **1531**
 AN INFRARED STUDY OF SPACECRAFT TARGETED COMETS
 02/16/2001 – 02/28/2002 FY01: \$49,400 Total: \$49,400
Prin. Invest.: H CAMPINS
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 – ASTRONOMY

NAG 5 10442 **UNIV OF ARIZONA** **1532**
 2MASS ASTEROIDS, COMETS & SATELLITES
 02/16/2001 – 02/28/2002 FY01: \$30,900 Total: \$30,900
Prin. Invest.: M SYKES
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 – ASTRONOMY

NAG 5 10446 **UNIV OF ARIZONA** **1533**
 INFRARED OBSERVATIONS OF SMALL BODIES
 02/20/2001 – 03/31/2002 FY01: \$79,400 Total: \$79,400
Prin. Invest.: R BROWN
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 – ASTRONOMY

NAG 5 10447 **UNIV OF ARIZONA** **1534**
 SPACEWATCH SURVEY OF THE SOLAR SYSTEM
 02/20/2001 – 01/31/2002 FY01: \$80,000 Total: \$80,000
Prin. Invest.: R MCMILLAN
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 – ASTRONOMY

NAG 5 10450 **UNIV OF ARIZONA** **1535**
 COUPLED PHYSICAL & CHEMICAL PROCESSES IN THE SOLAR NEBULA &
 EXTRASOLAR PLANETS
 02/20/2001 – 01/31/2002 FY01: \$40,000 Total: \$40,000
Prin. Invest.: J LUNINE
Tech. Officer: HQ/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 10452 **UNIV OF ARIZONA** **1536**
 MINERALOGIC & TRACE-ELEMENT STUDIES OF METEORITES &
 METEORITE IMPACTS
 02/21/2001 – 02/28/2002 FY01: \$180,000 Total: \$180,000
Prin. Invest.: W BOYNTON
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 10486 **UNIV OF ARIZONA** **1537**
 THERMAL HISTORY OF PLANETARY MATERIALS: THEORY, EXPERIMENTS &
 APPLICATIONS
 03/05/2001 – 04/30/2002 FY01: \$70,000 Total: \$70,000
Prin. Invest.: J GANGULY
Tech. Officer: GSFC/J BOYCE
CASE Category: 12 – CHEMISTRY

NAG 5 10543 **UNIV OF ARIZONA** **1538**
 SOUTHERN HEMISPHERE NEO SURVEY INSTRUMENTATION
 03/14/2001 – 03/14/2002 FY01: \$500,000 Total: \$500,000
Prin. Invest.: S LARSON
Tech. Officer: GSFC/T MORGAN
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 10592 **UNIV OF ARIZONA** **1539**
 IMPACTS & ENVIRONMENTAL CATASTROPHES: A STUDY OF THE EFFECTS
 OF IMPACT EVENTS ON THE CLIMATE SYST
 03/21/2001 – 03/31/2002 FY01: \$60,000 Total: \$60,000
Prin. Invest.: E PIERAZZO
Tech. Officer: GSFC/M MEYER
CASE Category: 11 – ASTRONOMY

NAG 5 10629 **UNIV OF ARIZONA** **1540**
 THE CLASSIFICATION AND DETECTABILITY OF SUBSTELLAR- MASS
 OBJECTS
 03/17/2001 – 03/31/2002 FY01: \$45,000 Total: \$45,000
Prin. Invest.: A BURROWS
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 10643 **UNIV OF ARIZONA** **1541**
 CODES & DECODERS FOR BANDWIDTH-EFFICIENT COMMUNICATIONS IN
 NEAR-EARTH MISSIONS.
 03/21/2001 – 03/31/2002 FY01: \$87,273 Total: \$87,273
Prin. Invest.: W RYAN
Tech. Officer: GSFC/P YEH
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 10660 **UNIV OF ARIZONA** **1542**
 IMPROVED MARS UPPER ATMOSPHERE CLIMATOLOGY
 03/21/2001 – 03/31/2002 FY01: \$80,000 Total: \$80,000
Prin. Invest.: S BOUGHER
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 10700 **UNIV OF ARIZONA** **1543**
 TEMPERATURE, GRAVITY AND COMPOSITION OF DAO WHITE DWARFS –
 FUSE 2000
 04/13/2001 – 04/14/2002 FY01: \$18,300 Total: \$18,300
Prin. Invest.: J B HOLBERG
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 – ASTRONOMY

NAG 5 10734 **UNIV OF ARIZONA** **1544**
 INCORPORATION OF NOBLE GASES INTO ANALOGS FOR INTERSTELLAR
 CARBONACEOUS AND METALLIC MATERIALS
 04/18/2001 – 04/30/2002 FY01: \$20,000 Total: \$20,000
Prin. Invest.: T SWINDLE
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 10749 **UNIV OF ARIZONA** **1545**
 CAPTURING PLANETARY SCIENCE DATA FROM NASA SUPPORTED
 RESEARCH
 04/13/2001 – 04/14/2002 FY01: \$126,000 Total: \$126,000
Prin. Invest.: M V SYKES
Tech. Officer: GSFC/P E HUNTER
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 10760 **UNIV OF ARIZONA** **1546**
 THEORY OF BROWN DWARFS & GIANT PLANETS (ATP-2000)
 04/23/2001 – 04/30/2002 FY01: \$80,000 Total: \$80,000
Prin. Invest.: A S BURROWS
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 10827 **UNIV OF ARIZONA** **1547**
 THE SMALL SCALE STRUCTURE OF THE UNIVERSE (ATP 2000)
 05/01/2001 – 05/14/2002 FY01: \$88,244 Total: \$88,244
Prin. Invest.: M STEINMETZ
Tech. Officer: GSFC/R OLIVERSON
CASE Category: 11 – ASTRONOMY

NAG 5 10843 **UNIV OF ARIZONA** **1548**
 RECALIBRATION OF THE NEAR INFRARED CAMERA & MULTI-OBJECT
 SPECTROMETER (NICMOS) & ANALYSIS OF
 05/04/2001 – 06/14/2002 FY01: \$1,127,294 Total: \$1,127,294
Prin. Invest.: R THOMPSON
Tech. Officer: GSFC/J JELETIC
CASE Category: 11 – ASTRONOMY

NAG 5 10853 **UNIV OF ARIZONA** **1549**
 OPERATION & OPTIMIZATION OF THE CATALINA SKY SURVEY FOR NEOS
 05/02/2001 – 04/30/2002 FY01: \$456,500 Total: \$456,500
Prin. Invest.: S LARSEN
Tech. Officer: GSFC/T MORGAN
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10884 **UNIV OF ARIZONA** **1550**
 ENERGETIC PARTICLES AND THE EARTH'S ENVIRONMENT IN SPACE
 05/03/2001 – 04/30/2002 FY01: \$96,451 Total: \$96,451
Prin. Invest.: J KOTA
Tech. Officer: GSFC/W J WAGNER
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10893 **UNIV OF ARIZONA** **1551**
 MODELING SUPPORT FOR SEC OBSERVATIONS
 05/10/2001 – 05/31/2002 FY01: \$100,000 Total: \$100,000
Prin. Invest.: J JOKIPII
Tech. Officer: GSFC/J GURMAN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 10961 **UNIV OF ARIZONA** **1552**
 INSTRUMENT UPGRADE: OFFNER SPECTROMETER VISIBLE UPGRADE &
 EXTENSION DESIGN TO 2.5 MICR
 05/23/2001 – 06/30/2002 FY01: \$74,200 Total: \$74,200
Prin. Invest.: U FINK
Tech. Officer: GSFC/T MORGAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 10974 **UNIV OF ARIZONA** **1553**
 WAVES, TURBULENCE AND ENERGETIC PARTICLES IN THE HELIOSPHERE
 05/29/2001 – 05/31/2002 FY01: \$77,566 Total: \$77,566
Prin. Invest.: G M WEBB
Tech. Officer: GSFC/W J WAGNER
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10990 **UNIV OF ARIZONA** **1554**
 THEORY OF ENERGETIC PARTICLE TRANSPORT IN HELIOSPHERIC &
 SOLAR PLASMAS
 06/05/2001 – 06/14/2002 FY01: \$75,000 Total: \$75,000
Prin. Invest.: J R JOKIPII
Tech. Officer: GSFC/W J WAGNER
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 11044 **UNIV OF ARIZONA** **1555**
 MONITORING & PREDICTION OF WATER DISTRIBUTION/ AVAILABILITY IN
 SEMI-ARID REGIONS
 07/05/2001 – 06/14/2002 FY01: \$525,000 Total: \$525,000
Prin. Invest.: S SOROOSHIAN
Tech. Officer: GSFC/M JASINSKI
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 11108 **UNIV OF ARIZONA** **1556**
 CONSTRAINING THE DARK MATTER HALOS OF GIANT ELLIPTICAL
 GALAXIES
 07/13/2001 – 08/31/2002 FY01: \$99,861 Total: \$99,861
Prin. Invest.: A I ZABLUDOFF
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 11153 **UNIV OF ARIZONA** **1557**
 STUDIES OF COSMOGONIC PROCESSES
 08/02/2001 – 07/31/2002 FY01: \$25,000 Total: \$25,000
Prin. Invest.: A CAMERON
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 11163 **UNIV OF ARIZONA** **1558**
 ASSIMILATION OF GPS METEOROLOGICAL DATA INTO WEATHER AND CLIMATE ANALYSES.
 08/07/2001 – 08/14/2002 FY01: \$33,801 Total: \$33,801
Prin. Invest.: E KURINSKI
Tech. Officer: GSFC/J JOINER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 11166 **UNIV OF ARIZONA** **1559**
 INTER-CALIBRATION AND UTILIZATION OF GROUND-BASED AND TES DATA TO STUDY MARTIAN WATER VAPOR
 08/07/2001 – 08/14/2003 FY01: \$67,500 Total: \$67,500
Prin. Invest.: A L SPRAGUE
Tech. Officer: GSFC/J M BOYCE
CASE Category: 41 – AERONAUTICAL ENGR

NAG 5 11168 **UNIV OF ARIZONA** **1560**
 PALEOMAGNETIC INVESTIGATION OF POLAR REORIENTATION ON MARS
 08/07/2001 – 08/14/2004 FY01: \$48,728 Total: \$48,728
Prin. Invest.: L L HOOD
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 11169 **UNIV OF ARIZONA** **1561**
 MONITORING THE GEOLOGICAL ACTIVITY OF MARS
 08/07/2001 – 08/14/2004 FY01: \$54,000 Total: \$54,000
Prin. Invest.: P E GEISSLER
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 11183 **UNIV OF ARIZONA** **1562**
 MGS RADIO SCIENCE ELECTRON DENSITY PROFILES AND IMPLICATIONS FOR THE NEUTRAL ATMOSPHERE
 08/13/2001 – 08/14/2003 FY01: \$45,000 Total: \$45,000
Prin. Invest.: S W BOUGHER
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 11188 **UNIV OF ARIZONA** **1563**
 RETRIEVAL OF CLOUD PRESSURE FROM OMI MEASUREMENTS USING ROTATIONAL RAMAN SCATTERING
 08/07/2001 – 08/14/2002 FY01: \$29,000 Total: \$29,000
Prin. Invest.: D FLITTNER
Tech. Officer: GSFC/J JOINER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 11195 **UNIV OF ARIZONA** **1564**
 COOPERATIVE CENTER FOR ATMOSPHERIC SCIENCE AND TECHNOLOGY
 08/30/2001 – 09/30/2004 FY01: \$91,223 Total: \$91,223
Prin. Invest.: R LOUGHMAN
Tech. Officer: GSFC/W HOEGY
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 11316 **UNIV OF ARIZONA** **1565**
 USE OF AIRBORNE REMOTE SENSING FOR UNCERTAINTY ASSESSMENTS IN REGIONAL EXTRAPOLATIONS OF GROUND
 09/17/2001 – 09/14/2004 FY01: \$87,368 Total: \$87,368
Prin. Invest.: A R HUETE
Tech. Officer: GSFC/D W DEERING
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 11339 **UNIV OF ARIZONA** **1566**
 LANDSAT RADIOMETRIC CALIBRATION: TOWARDS A 20 YEAR RECORD OF CALIBRATED THEMATIC MAPPER CLASS DATA
 09/14/2001 – 09/14/2004 FY01: \$114,999 Total: \$114,999
Prin. Invest.: K THOME
Tech. Officer: GSFC/B L MARKHAM
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 11348 **UNIV OF ARIZONA** **1567**
 STEWARD OBSERVATORY'S GSFC GCN/SUPERLOTIS PROJECT COLLABORATION
 09/26/2001 – 07/31/2002 FY01: \$23,063 Total: \$23,063
Prin. Invest.: B PETERSON
Tech. Officer: GSFC/S D BARTHELOMY
CASE Category: 11 – ASTRONOMY

NAG 5 11355 **UNIV OF ARIZONA** **1568**
 ASU/MICHIGAN COLLABORATION: THE ABUNDANCE & ISOTOPIC COMPOSITION OF HG IN EXTRATERRESTRIAL MATERIALS
 09/21/2001 – 02/28/2004 FY01: \$16,842 Total: \$16,842
Prin. Invest.: D LAURETTA
Tech. Officer: GSFC/J BOYCE
CASE Category: 12 – CHEMISTRY

NAG 8 1234 **UNIV OF ARIZONA** **1569**
 NON-EQUILIBRIUM PHASE TRANSFORMATION
 04/25/1996 – 04/30/2000 FY01: \$0 Total: \$579,500
Prin. Invest.: K A JACKSON
Tech. Officer: MSFC/C R TALLEY
CASE Category: 13 – PHYSICS

NAG 8 1469 **UNIV OF ARIZONA** **1570**
 DEVELOPMENT OF SUPERIOR MATERIALS FOR LAYERED SOLID OXIDE ELECTROLYZERS BASED ON MECHANICAL
 04/17/1998 – 01/31/2002 FY01: \$71,250 Total: \$268,750
Prin. Invest.: J R SRIDHAR
Tech. Officer: MSFC/P M DOTY
CASE Category: 46 – MECHANICAL ENGR

NAG 8 1520 **UNIV OF ARIZONA** **1571**
 QUANTIFYING THE EFFECTS OF SUB-GRID TOPOGRAPHY & VEGETATION ON SEASONAL SNOW COVER, RELATED SNOWMLT
 05/29/1998 – 03/31/2002 FY01: \$0 Total: \$347,829
Prin. Invest.: Z YANG, R BALES, R E DICKINSON
Tech. Officer: MSFC/J ARNOLD
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 8 1523	UNIV OF ARIZONA	1572	NAG 9 1175	UNIV OF ARIZONA	1580
IMPROVING GCM MODELING THRU HYDROLOGICALLY REAL-ISTIC SUB-GRID REPRESENTATION OF LAND-ATMOSPHERE			SIMULTANEOUS PRODUCTION OF OXYGEN AND METHANE USING ZIRCONIA ELECTROLYSIS		
05/26/1998 - 05/31/2001	FY01: \$0	Total: \$519,764	11/03/1999 - 11/09/2001	FY01: \$0	Total: \$89,869
<i>Prin. Invest.:</i> S SOROOSHIAN, H GUPTA, X GAO			<i>Prin. Invest.:</i> K R SRIDHAR		
<i>Tech. Officer:</i> MSFC/J ARNOLD			<i>Tech. Officer:</i> JSC/R S BAIRD		
<i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE			<i>CASE Category:</i> 43 - CHEMICAL ENGR		
NAG 8 1531	UNIV OF ARIZONA	1573	NAG 9 1212	UNIV OF ARIZONA	1581
INFLUENCE OF SUBGRID SCALE HETEROGENEITY ON REMOTELY SENSED SURFACE TEMPERATURES			ULTRA HIGH SPATIAL RESOLUTION HARD X-RAY DETECTORS		
06/01/1998 - 12/31/2001	FY01: \$0	Total: \$600,000	06/30/2000 - 06/30/2003	FY01: \$0	Total: \$99,919
<i>Prin. Invest.:</i> W J SHUTTLEWORTH, J J TOTH			<i>Prin. Invest.:</i> H B		
<i>Tech. Officer:</i> MSFC/J ARNOLD			<i>Tech. Officer:</i> JSC/L C SHACKELFORD		
<i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE			<i>CASE Category:</i> 13 - PHYSICS		
NAG 8 1542	UNIV OF ARIZONA	1574	NAG 9 1229	UNIV OF ARIZONA	1582
ALDF NETWORK INSTALLATION IN SUPPORT OF LIS VALIDATION			DEFINITION PHASE STUDY REPORT FOR END TO END ISRU MARS FLIGHT EXPERIMENT		
07/22/1998 - 07/31/2001	FY01: \$0	Total: \$49,300	05/10/2000 - 02/09/2001	FY01: \$0	Total: \$850,000
<i>Prin. Invest.:</i> C D WEIDMAN			<i>Prin. Invest.:</i> K R SRIDHAR		
<i>Tech. Officer:</i> MSFC/R J BLAKESLEE, MSFC/S J GOODMAN			<i>Tech. Officer:</i> JSC/J CONNOLLY		
<i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE			<i>CASE Category:</i> 47 - METAL & MATERIALS ENGR		
NAG 8 1654	UNIV OF ARIZONA	1575	NAG 9 1307	UNIV OF ARIZONA	1583
MARS ATMOSPHERE AND DUST IN OPTICAL AND RADIO (MATADOR)			SCANNING CHEMICAL MICROSCOPY USING SURFACE ENHANCED RAMAN SCATTERING		
01/19/2000 - 09/30/2001	FY01: \$251,070	Total: \$328,175	05/23/2001 - 02/28/2003	FY01: \$222,000	Total: \$222,000
<i>Prin. Invest.:</i> P H SMITH			<i>Prin. Invest.:</i> D SARID		
<i>Tech. Officer:</i> MSFC/C A DARBY			<i>Tech. Officer:</i> JSC/D MCKAY		
<i>CASE Category:</i> 54 - ENVIRONMENTAL BIOLOGY			<i>CASE Category:</i> 42 - ASTRONAUTICAL ENGR		
NAG 8 1667	UNIV OF ARIZONA	1576	NAG 9 1378	UNIV OF ARIZONA	1584
GROWTH OF ROD EUTECTICS			TESTING OF COMPACT & ROBUST HIGH INTENSITY WATER JACKETED PLANT LIGHTING SYSTEM		
05/24/2000 - 11/30/2003	FY01: \$85,500	Total: \$125,500	08/24/2001 - 07/31/2004	FY01: \$10,550	Total: \$10,550
<i>Prin. Invest.:</i> K J JACKSON			<i>Prin. Invest.:</i> G GIACOMELLI		
<i>Tech. Officer:</i> MSFC/P DOTY			<i>Tech. Officer:</i> JSC/D BARTA		
<i>CASE Category:</i> 19 - PHYSICAL SCIENCE, OTHER			<i>CASE Category:</i> 55 - AGRICULTURE		
NAG 8 1754	UNIV OF ARIZONA	1577	NAG10 255	UNIV OF ARIZONA	1585
A PHYSICALLY BASED INVESTIGATION OF TROPICAL CONVECTIVE REGIMES			RESEARCH HYBRID SOLAR AND ARTIFICIAL LIGHTING FOR SPACE LIFE SUPPORT		
01/23/2001 - 01/29/2004	FY01: \$50,000	Total: \$50,000	03/17/1999 - 03/15/2002	FY01: \$0	Total: \$212,031
<i>Prin. Invest.:</i> D J BOCCIPPIO			<i>Prin. Invest.:</i> J L CUELLO		
<i>Tech. Officer:</i> MSFC/J D ARNOLD			<i>Tech. Officer:</i> KSC/R WHEELER		
<i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE			<i>CASE Category:</i> 59 - LIFE SCIENCE, OTHER		
NAG 8 1775	UNIV OF ARIZONA	1578	NAG10 286	UNIV OF ARIZONA	1586
ATOM OPTICS IN CONTROLLED AND MICROGRAVITY ENVIRIO NMNETS			STUDIES OF ATMOSPHERIC ELECTRICITY AT THE KENNEDY SPACE CENTER AND EASTERN RANGE		
04/24/2001 - 04/30/2005	FY01: \$80,000	Total: \$80,000	06/05/2000 - 12/31/2001	FY01: \$113,638	Total: \$222,638
<i>Prin. Invest.:</i> P MEYSTRE			<i>Prin. Invest.:</i> E KRIDER		
<i>Tech. Officer:</i> MSFC/D HUBBARD			<i>Tech. Officer:</i> KSC/J MADURA		
<i>CASE Category:</i> 19 - PHYSICAL SCIENCE, OTHER			<i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE		
NAG 9 923	UNIV OF ARIZONA	1579	NAG10 302	UNIV OF ARIZONA	1587
POLYCRYSTALLINE ZIRCONIA ELEC CELL STACK FOR CO2 ELECTROLYSIS			SAFELY REDUCE THE IMPACT OF LIGHTNING ON GROUND PROCESSING, LAUNCH, FLIGHT AND LANDING ON OPERATION		
01/29/1997 - 05/31/2002	FY01: \$0	Total: \$380,749	06/22/2001 - 06/30/2006	FY01: \$63,000	Total: \$63,000
<i>Prin. Invest.:</i> K R SRIDHAR			<i>Prin. Invest.:</i> E KRIDER		
<i>Tech. Officer:</i> JSC/R S BAIRD			<i>Tech. Officer:</i> KSC/J MADURA		
<i>CASE Category:</i> 51 - BIOLOGY (EXCLUDING ENVIR)			<i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE		

NAG13 99005 **UNIV OF ARIZONA** **1588**
 NASA SOUTHWEST EARTH SCIENCE APPLICATIONS CENTER SAME
 02/19/1999 - 02/18/2002 FY01: \$0 Total: \$1,499,981
Prin. Invest.: R DAVIS
Tech. Officer: SSC/C HILL
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAS 1 18939 **UNIV OF ARIZONA** **1589**
 SAGE III SCIENCE INVESTIGATION SUPPORT - P.I. - B. HERMAN
 02/28/1999 - 01/31/2005 FY01: \$150,000 Total: \$1,074,500
Prin. Invest.: B M HERMAN
Tech. Officer: LARC/G L MADDREA JR, LARC/L R MCMASTER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAS 1 99055 **UNIV OF ARIZONA** **1590**
 ACTIVE TROPOSPHERIC OZONE AND MOISTURE SOUNDER (ATOMS)
 04/21/1999 - 05/31/2002 FY01: \$150,641 Total: \$462,641
Prin. Invest.: B M HERMAN
Tech. Officer: LARC/J R HILL, LARC/F PERI
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAS 1 99102 **UNIV OF ARIZONA** **1591**
 PICASSO-CENA SCIENCE TEAM SUPPORT FOR AERSOL AND CLOUD
 STUDIES
 05/17/1999 - 05/16/2002 FY01: \$184,652 Total: \$257,302
Prin. Invest.: J A REAGAN
Tech. Officer: LARC/G GIBSON
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAS 2 00117 **UNIV OF ARIZONA** **1592**
 RESEARCH PROJECT-DEVEL AND TEST ULTRA HIGH DENSITY FAST
 READOUT OPTICAL STORAGE
 10/31/2000 - 10/31/2003 FY01: \$660,834 Total: \$660,834
Prin. Invest.: T MILSTER, F AKHAVAN
Tech. Officer: ARC/S LAU, ARC/R CARVALLHO
CASE Category: 22 - COMPUTER SCIENCE

NAS 5 00197 **UNIV OF ARIZONA** **1593**
 R & D TO SUPPORT GSFC'S SIMBIOS PROJECT
 12/21/2000 - 11/30/2001 FY01: \$137,909 Total: \$137,909
Prin. Invest.: J ZALEWSKI
Tech. Officer: GSFC/C R MCCCLAIN
CASE Category: 33 - OCEANOGRAPHY

NAS 5 31364 **UNIV OF ARIZONA** **1594**
 EOS/MODIS INVESTIGATION FROM DR. HUETE
 01/24/1992 - 12/14/2001 FY01: \$437,000 Total: \$3,943,109
Prin. Invest.: A HUETE
Tech. Officer: GSFC/H OSEROFF
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAS 5 31717 **UNIV OF ARIZONA** **1595**
 EOS INVESTIGATION
 01/03/1992 - 12/14/2001 FY01: \$845,226 Total: \$8,457,134
Prin. Invest.: P N SLATER
Tech. Officer: GSFC/L STUART
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAS 8 97309 **UNIV OF ARIZONA** **1596**
 FABRICATION, TEST, AND DELIVERY OF PRIMARY MIRROR SYSTEM
 DEMONSTRATOR.
 07/17/1997 - 06/29/2001 FY01: \$967,299 Total: \$6,462,490
Prin. Invest.: J H BURGE, NONE
Tech. Officer: MSFC/D JACOBSON
CASE Category: 49 - ENGINEERING, OTHER

NAS 9 97224 **UNIV OF ARIZONA** **1597**
 MARS FLIGHT DEMONSTRATION OXYGEN GENERATORY SUBSYS
 12/13/1997 - 09/30/2000 FY01: \$292 Total: \$1,252,893
Prin. Invest.: K R SRIDHAR
Tech. Officer: JSC/S BAIRD
CASE Category: 42 - ASTRONAUTICAL ENGR

NCC 2 5239 **UNIV OF ARIZONA** **1598**
 DEVELOPMENT OF THE COUPLED LEAFMOD/SART CANOPY- LEVEL
 RADIATIVE TRANSFER MODEL
 09/15/1997 - 06/30/2000 FY01: -\$1 Total: \$49,999
Prin. Invest.: B D GANAPOL
Tech. Officer: ARC/D L PETERSON
CASE Category: 54 - ENVIRONMENTAL BIOLOGY

NCC 2 5316 **UNIV OF ARIZONA** **1599**
 TECHNOLOGY DEVELOPMENT FOR ASTROBIOLOGY SAMPLE ACQ UISI-
 TION, STORAGE & ANALYSIS
 04/12/1999 - 12/31/2000 FY01: \$0 Total: \$74,711
Prin. Invest.: K R SRIDHAR
Tech. Officer: ARC/M H KAISS
CASE Category: 41 - AERONAUTICAL ENGR

NCC 2 5357 **UNIV OF ARIZONA** **1600**
 ISRU TECHNOLOGIES FOR MARS LIFE SUPPORT
 09/29/1999 - 09/30/2001 FY01: -\$15,711 Total: \$103,049
Prin. Invest.: K R SRIDHAR
Tech. Officer: ARC/J E FINN
CASE Category: 46 - MECHANICAL ENGR

NCC 2 5375 **UNIV OF ARIZONA** **1601**
 DEVELOPMENT OF A SYSTEM FOR QUANTIFYING IN VIVO BO NE STRAINS
 IN RODENTS IN NORMAL AND ALTERED GRAVI
 03/31/2000 - 03/31/2001 FY01: \$0 Total: \$10,208
Prin. Invest.: J SZIVEK
Tech. Officer: ARC/J SCHONFELD/W LIN
CASE Category: 56 - MEDICL

NCC 2 5385 **UNIV OF ARIZONA** **1602**
 SOLID STATE SENSORS FOR AEROASSIST TECHNOLOGY APPLICATIONS
 06/01/2000 - 09/30/2002 FY01: \$25,800 Total: \$73,300
Prin. Invest.: K R SRIDHAR
Tech. Officer: ARC/G A RAICHE, ARC/P F WERCINSKI
CASE Category: 41 - AERONAUTICAL ENGR

NCC 5 355 **UNIV OF ARIZONA** **1603**
 PROPOSAL FOR GRADUATE STUDENT SUPPORT UNDER CCAST. NOW
 INCLUDES ADDITIONAL SUPP
 08/04/1998 - 09/30/2001 FY01: \$144,288 Total: \$539,798
Prin. Invest.: B M HERMAN
Tech. Officer: GSFC/A J NEGRI
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 5 460 **UNIV OF ARIZONA** **1604**
 RADIOMETRIC CALIBRATION, SPATIAL CHARACTERIZATION, AND SPECTRAL EVALUATION OF THE ADVANCED LAND IMAG
 03/03/2000 - 12/31/2001 FY01: \$231,026 Total: \$416,005
Prin. Invest.: S F BIGGAR
Prin. Invest.: NONE
Tech. Officer: GSFC/S G UNGAR
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 5 478 **UNIV OF ARIZONA** **1605**
 INTER-SENSOR CALIBRATION OF VEGETATION INDICES FOR MONITORING AND CONTINUITY STUDIES
 03/22/2000 - 12/31/2001 FY01: \$194,054 Total: \$285,624
Prin. Invest.: A R HUETE
Tech. Officer: GSFC/S G UNGER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 8 96 **UNIV OF ARIZONA** **1606**
 COMPARISON OF STRUCTURE AND SEGREGATION IN ALLOYS
 06/07/1996 - 05/31/2001 FY01: \$213,943 Total: \$843,943
Prin. Invest.: D R POIRIER
Tech. Officer: MSFC/M HUBBARD
CASE Category: 49 - ENGINEERING, OTHER

NCC 8 160 **UNIV OF ARIZONA** **1607**
 REMOTE SENSING INVESTIGATION OF THE ANCIENT MAYA LANDSCAPE
 12/08/1998 - 12/07/2001 FY01: \$77,380 Total: \$234,787
Prin. Invest.: T P CULBERT
Tech. Officer: MSFC/T SEVER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NGT 1 52176 **UNIV OF ARIZONA** **1608**
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
 08/25/1997 - 07/31/2001 FY01: \$12,000 Total: \$88,000
Prin. Invest.: J A REAGAN, M A RUBIE
Tech. Officer: LARC/C A HOSTETLER, LARC/D M WINKER
CASE Category: 49 - ENGINEERING, OTHER

NGT 1 52206 **UNIV OF ARIZONA** **1609**
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
 09/14/1998 - 12/31/2001 FY01: \$9,167 Total: \$75,167
Prin. Invest.: H F FASEL, H F FASEL
Tech. Officer: LARC/B A SINGER, LARC/B A SINGER
CASE Category: 41 - AERONAUTICAL ENGNR

NGT 2 52268 **UNIV OF ARIZONA** **1610**
 ISRU TECHNOLOGIES FOR HUMAN MARS EXPLORATION
 08/10/2000 - 07/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: K R SRIDHAR
Tech. Officer: ARC/J E FINN, ARC/M H KLISS
CASE Category: 41 - AERONAUTICAL ENGNR

NGT 4 52408 **UNIV OF ARIZONA** **1611**
 GSRP INVESTIGATION OF ACTUATORS USED IN ACTIVE FLOW CONTROL
 06/18/1998 - 06/30/2001 FY01: -\$200 Total: \$65,800
Prin. Invest.: H F FASEL, M LINNICK
Tech. Officer: SSC/K GUPTA, SSC/L S VOELKER
CASE Category: 41 - AERONAUTICAL ENGNR

NGT 5 110 **UNIV OF ARIZONA** **1612**
 CATASTROPHIC FLOODING ON ICELAND AND MARS STUDENT: DEVON M. BURR
 06/20/2000 - 12/31/2000 FY01: \$0 Total: \$11,000
Prin. Invest.: A S MCEWEN
Tech. Officer: GSFC/G A SOFFEN
CASE Category: 32 - GEOLOGICAL SCIENCE

NGT 5 111 **UNIV OF ARIZONA** **1613**
 MINIATURE DOPPLER AEROSOL BACKSCATTER LIDAR FOR DETECTION OF ATMOSPHERIC WINDS/STUDENT: JEREMY DOB
 07/07/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: J A REAGAN
Tech. Officer: GSFC/G A SOFFEN
CASE Category: 13 - PHYSICS

NGT 5 114 **UNIV OF ARIZONA** **1614**
 CATASTROPHIC FLOODING ON ICELAND AND MARS (STUDENT : DEVON BURR)
 05/31/2001 - 06/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: A S MCEWEN
Tech. Officer: GSFC/M S BURRELL
CASE Category: 32 - GEOLOGICAL SCIENCE

NGT 5 30013 **UNIV OF ARIZONA** **1615**
 A STUDY OF 1993 USA FLOOD MECHANISM ON REGIONAL AN USING CLIMATE MODELS AND REMOTE-SENSING
 10/23/1996 - 08/31/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: R E DICKSON
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30140 **UNIV OF ARIZONA** **1616**
 ECOSYSTEM DEGRADATION AND HOUSEHOLD VULNERABILITY IN THE SEMI ARID REGION OF CHILE
 08/27/1998 - 12/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: C HUTCHINSON
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30148 **UNIV OF ARIZONA** **1617**
 SYNTHETIC LAHAR HAZARD MODELING USING ORBITAL DEM DATA/NASA EARTH SCI. SYSTEM PROGRAM/STUDENT: KLI
 08/28/1998 - 03/31/2002 FY01: \$0 Total: \$66,000
Prin. Invest.: C E GLASS
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30386 **UNIV OF ARIZONA** **1618**
 SEASONAL ACCUMULATION & NITROGEN DEPOSITION MAPPING ON THE GREENLAND ICESHEET/JOHNNY BURKHART
 08/13/2001 - 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: R C BALES
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40026 **UNIV OF ARIZONA** **1619**
 NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
 12/30/1996 - 01/31/2001 FY01: -\$162,257 Total: \$1,654,616
Prin. Invest.: E H LEVY
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40082 **UNIV OF ARIZONA** **1620**
 ARIZONA SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
 02/09/2001 – 01/31/2002 FY01: \$649,132 Total: \$649,132
Prin. Invest.: M J DRAKE
Tech. Officer: GSFC/D D DETROYE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 50046 **UNIV OF ARIZONA** **1621**
 ACHROMATIC NULLING BEAM COMBINER FOR A PLANET
 07/17/1997 – 12/31/2000 FY01: -\$324 Total: \$65,676
Prin. Invest.: M LLOYD-HART
Tech. Officer: GSFC/A NURRIDIN
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 50190 **UNIV OF ARIZONA** **1622**
 THEORETICAL & OBSERVATIONAL STUDY OF ORIGIN & EVOLUTION OF
 PLANETS & PLANETARY SYSTEMS
 06/05/1998 – 08/14/2001 FY01: \$0 Total: \$22,000
Prin. Invest.: R H BROWN
Tech. Officer: HQ/A NURRIDIN
CASE Category: 11 – ASTRONOMY

NGT 5 50243 **UNIV OF ARIZONA** **1623**
 PHYSICAL STUDIES OF NEA & TNO OBJECTS USING SPECTR OPHOTO-
 METRY STUDENT: RONALD FEVIG
 06/02/1999 – 06/30/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: U FINK
Tech. Officer: GSFC/L SMITH
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 50246 **UNIV OF ARIZONA** **1624**
 DEVELOPMENT OF LASER MICROMACHINED COMPONENTS FOR SUBMILLI-
 METER HETERODYNE RECEIVERS_(STUDENT CHRIS
 06/02/1999 – 06/30/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: C WALKER
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 50282 **UNIV OF ARIZONA** **1625**
 SUBMILLIMETER LABORATORY AND OBSERVATIONAL STUDIES OF MOLEC-
 ULAR ION CHEMISTRY IN PHOTON-DOMINATE
 06/20/2000 – 07/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: L ZIURYYS
Tech. Officer: GSFC/L SMITH
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 50283 **UNIV OF ARIZONA** **1626**
 THE EVOLUTION OF GALAXIES IN 0.54
 06/22/2000 – 07/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: D MCCARTHY
Tech. Officer: GSFC/L SMITH
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 50289 **UNIV OF ARIZONA** **1627**
 THE COLLISIONAL EVOLUTION OF THE ASTEROID BELT: RECONCILING
 CONTRADICTORY EVIDENCE-STUDENT DOBRIE
 06/26/2000 – 06/30/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: R GREENBERG
Tech. Officer: GSFC/L SMITH
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 50300 **UNIV OF ARIZONA** **1628**
 NEUTRINO PROCESSES & R-PROCESS NUCLEOSYNTHESIS IN PROTO-
 NEUTRON STAR WINDS/ STUDENT: TODD THOMPSON
 06/28/2000 – 06/30/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: A BURROWS
Tech. Officer: GSFC/L SMITH
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 50303 **UNIV OF ARIZONA** **1629**
 THE EFFECTS OF MICROGRAVITY ON THE DEVELOPMENT OF THE IMMUNE
 SYSTEM/STUDENT: CHRIS C. WOODS
 07/06/2000 – 06/30/2002 FY01: \$21,423 Total: \$41,748
Prin. Invest.: D DELUCA
Tech. Officer: GSFC/L SMITH
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

ARKANSAS

NAG 8 1284 **ARKANSAS TECH UNIV** **1630**
 FOR RESEARCH "JOVE"
 01/21/1997 – 09/28/2000 FY01: -\$9,710 Total: \$127,290
Prin. Invest.: M CONNOR, R NELSON, S JORDAN
Tech. Officer: MSFC/J F DOWDY, MSFC/J R PRUITT
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG13 99016 **HENDRIX COLLEGE** **1631**
 DETECTION OF SMALL MOLECULES IN HYBRID ROCKET MOTOR COMBUS-
 TION BY N EAR IR ABSORPTION
 05/24/1999 – 04/30/2002 FY01: \$0 Total: \$20,000
Prin. Invest.: M W TEAGUE
Tech. Officer: SSC/B ST. CYR
CASE Category: 49 – ENGINEERING, OTHER

NAG 9 1061 **UNIV OF ARKANSAS - LITTLE ROCK** **1632**
 EFFECTS OF RESISTANCE TRAINING
 12/17/1998 – 07/31/2001 FY01: \$0 Total: \$532,137
Prin. Invest.: P A TESCH
Tech. Officer: JSC/C SAWIN
CASE Category: 69 – PSYCHOLOGY, OTHER

NAG10 277 **UNIV OF ARKANSAS - LITTLE ROCK** **1633**
 SYNTHESIS AND CHARACTERIZATION OF CROSS-LINKABLE W ATER-
 BORNE CONDUCTING POLYMERS FOR CORROSION PROT
 02/07/2000 – 01/18/2002 FY01: \$28,750 Total: \$115,000
Prin. Invest.: T VISWANATHAN
Tech. Officer: KSC/C J BRYAN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NCC 5 260 **UNIV OF ARKANSAS - LITTLE ROCK** **1634**
 ARKANSAS EPSCOR PROGRAM – THE ARKANSAS PLAN FOR EN HANCE-
 MENT OF AERO-SPACE RESEARCH AND ECONOMIC
 01/07/1998 – 07/31/2002 FY01: \$0 Total: \$1,800,000
Prin. Invest.: M HUDSON
Tech. Officer: HQ/D DETROYE
CASE Category: 11 – ASTRONOMY

NCC 5 404 UNIV OF ARKANSAS - LITTLE ROCK 1635
 NASA EPSCOR: PREPARATORY GRANT PROPOSAL
 05/14/1999 - 02/28/2002 FY01: \$0 Total: \$450,000
Prin. Invest.: K HUDSON
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 597 UNIV OF ARKANSAS - LITTLE ROCK 1636
 ARKANSAS NASA EPSCOR PROGRAM
 09/28/2001 - 08/14/2004 FY01: \$125,000 Total: \$125,000
Prin. Invest.: K HUDSON
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 2 52242 UNIV OF ARKANSAS - LITTLE ROCK 1637
 VIRTUAL REALITY SIMULATION OF PHYSIOLOGICAL EFFECT S OF
 MICROGRAVITY
 07/28/1998 - 12/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: C M COMPADRE
Tech. Officer: ARC/J D SMITH
CASE Category: 56 - MEDICL

NGT 5 40063 UNIV OF ARKANSAS - LITTLE ROCK 1638
 TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE
 AND FELLOWSHIP PROGRAM.
 03/24/1997 - 02/28/2001 FY01: \$0 Total: \$973,750
Prin. Invest.: G M NORTHROP
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40119 UNIV OF ARKANSAS - LITTLE ROCK 1639
 ARKANSAS SPACE GRANT COLLEGE & FELLOWSHIP PROGRAM
 03/14/2001 - 02/28/2002 FY01: \$256,250 Total: \$256,250
Prin. Invest.: M HUDSON
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT13 52718 UNIV OF ARKANSAS - LITTLE ROCK 1640
 DESIGN OF HIGH TEMPERATURE PROBE FOR MASS SPECTROSCOPY OF
 HYBRID ROCKET PLUME
 07/13/1998 - 07/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: C MEADORS
Tech. Officer: SSC/A JOYCE
CASE Category: 41 - AERONAUTICAL ENGR

NGT13 52724 UNIV OF ARKANSAS - LITTLE ROCK 1641
 INVESTIGATION OF METALLIC MOLECULAR BANDS IN HYBRID ROCKET
 PLUMES
 12/01/1999 - 07/31/2000 FY01: -\$5 Total: \$10,995
Prin. Invest.: K MAXWELL
Tech. Officer: SSC/R TRAVIS
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 5 4317 UNIV OF ARKANSAS MAIN CAMP - FAYETTEVILLE 1642
 NATURAL THERMOLUMINESCENCE OF ANTARCTIC METEORITES
 04/09/1997 - 02/28/2001 FY01: \$0 Total: \$150,000
Prin. Invest.: D H BENOIT
Tech. Officer: GSFC/D NAVA
CASE Category: 11 - ASTRONOMY

NAG 5 9496 UNIV OF ARKANSAS MAIN CAMP - FAYETTEVILLE 1643
 THERMOLUMINESCENCE STUDIES OF METEORITES
 04/21/2000 - 04/30/2001 FY01: \$0 Total: \$43,000
Prin. Invest.: P BENOIT
Tech. Officer: GSFC/J BOYCE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10736 UNIV OF ARKANSAS MAIN CAMP - FAYETTEVILLE 1644
 THERMOLUMINESCENCE STUDIES OF METEORITES
 04/18/2001 - 04/30/2002 FY01: \$20,000 Total: \$20,000
Prin. Invest.: P BENOIT
Tech. Officer: GSFC/J BOYCE
CASE Category: 12 - CHEMISTRY

NCC 2 5360 UNIV OF ARKANSAS MAIN CAMP - FAYETTEVILLE 1645
 GROWTH OF METHANOGENS ON CARVON MONOXIDE
 12/10/1999 - 11/30/2001 FY01: \$0 Total: \$15,000
Prin. Invest.: T KRAL
Tech. Officer: ARC/M J LEON
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 2 52243 UNIV OF ARKANSAS MAIN CAMP - FAYETTEVILLE 1646
 METHANOGENIC METABOLISM: IMPLICATIONS FOR MARS & EARLY EARTH
 07/28/1998 - 11/30/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: T A KRAL
Tech. Officer: ARC/C P MCKAY
CASE Category: 54 - ENVIRONMENTAL BIOLOGY

CALIFORNIA

NAG 1 1975 CALIFORNIA INST OF TECHNOLOGY 1647
 GLOBAL FAILURE MODES IN HIGH TEMPERATURE COMPOSITE STRUC-
 TURES
 11/25/1997 - 05/14/2001 FY01: \$0 Total: \$190,188
Prin. Invest.: W G KNAUSS
Tech. Officer: GSFC/J H STARNES
CASE Category: 41 - AERONAUTICAL ENGR

NAG 1 2151 CALIFORNIA INST OF TECHNOLOGY 1648
 CHEMISTRY AND TRANSPORT IN A MULTI-DIMENSIONAL MODEL
 02/23/1999 - 12/31/2001 FY01: \$119,762 Total: \$354,542
Prin. Invest.: Y LYUNG
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 01038 CALIFORNIA INST OF TECHNOLOGY 1649
 ULTRADENSE SILICON CMOS-BASED MERGED MULTISPECTRAL IMAGER/
 NONVOLATILE MEMORY DEVICE BASED ON INJECTN
 08/24/2001 - 05/30/2004 FY01: \$228,800 Total: \$228,800
Prin. Invest.: H A ATWATER
Tech. Officer: LARC/C D ARMSTRONG
CASE Category: 13 - PHYSICS

NAG 2 1316 CALIFORNIA INST OF TECHNOLOGY 1650
 RASCAL CONTROL LAW DESIGN USING CONDUIT
 04/02/1999 - 03/31/2001 FY01: -\$66 Total: \$9,933
Prin. Invest.: D J BIEZAD
Tech. Officer: ARC/M B TISCHLER
CASE Category: 41 - AERONAUTICAL ENGR

<p>NAG 2 1346 CALIFORNIA INST OF TECHNOLOGY 1651 EVOLUTION OF NEURAL CREST & PLACODES 07/21/1999 – 07/14/2002 FY01: \$161,363 Total: \$380,459 <i>Prin. Invest.:</i> M BRONNER-FRASER <i>Tech. Officer:</i> ARC/M M AVERNER, ARC/R D MACELROY CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)</p>	<p>NAG 5 3911 CALIFORNIA INST OF TECHNOLOGY 1660 MOLECULAR BEAM STUDIES OF STRATOSPHERIC PHOTOCHEM 02/26/1997 – 12/31/2001 FY01: \$71,599 Total: \$262,937 <i>Prin. Invest.:</i> D OKUMURA <i>Tech. Officer:</i> GSFC/M J KURYLO CASE Category: 31 – ATMOSPHERIC SCIENCE</p>
<p>NAG 2 1368 CALIFORNIA INST OF TECHNOLOGY 1652 TRANSCRIPTIONAL REGULATION & EVOLUTION OF BILATERAL BODY PLANS 08/05/1999 – 07/31/2002 FY01: \$92,943 Total: \$554,324 <i>Prin. Invest.:</i> E M DAVIDSON <i>Tech. Officer:</i> ARC/M M AVERNER, ARC/R D MACELROY CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)</p>	<p>NAG 5 4022 CALIFORNIA INST OF TECHNOLOGY 1661 PALEOENVIRONMENT ON MARS 03/25/1997 – 09/30/1999 FY01: -\$2,473 Total: \$87,527 <i>Prin. Invest.:</i> D YUNG <i>Tech. Officer:</i> GSFC/M A MEYER CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)</p>
<p>NAG 2 1370 CALIFORNIA INST OF TECHNOLOGY 1653 TRANSCRIPTION FACTOR EVOLUTION & LYMPHOCYTE ORIGIN S 08/08/1998 – 09/30/2002 FY01: \$192,419 Total: \$385,362 <i>Prin. Invest.:</i> E V ROTHENBERG <i>Tech. Officer:</i> ARC/M M AVERNER, ARC/R D MACELROY CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)</p>	<p>NAG 5 4076 CALIFORNIA INST OF TECHNOLOGY 1662 GEOCHEMICAL AND ISOTOPIC INVESTIGATIONS OF LUNAR A 03/26/1997 – 11/14/1999 FY01: -\$4,479 Total: \$1,601,521 <i>Prin. Invest.:</i> D J WASSERBURG <i>Tech. Officer:</i> GSFC/J BOYCE CASE Category: 12 – CHEMISTRY</p>
<p>NAG 3 2166 CALIFORNIA INST OF TECHNOLOGY 1654 INERTIAL EFFECTS IN SUSPENSION DYNAMICS 05/08/1998 – 02/10/2002 FY01: \$95,000 Total: \$370,000 <i>Prin. Invest.:</i> J F BRADY <i>Tech. Officer:</i> GRC/F P CHIARAMONTE CASE Category: 46 – MECHANICAL ENGR</p>	<p>NAG 5 4083 CALIFORNIA INST OF TECHNOLOGY 1663 DEVELOPMENT AND APPLICATION OF THE ION MICROPROBE TERRESTRIAL MATERIALS 03/10/1997 – 05/31/2001 FY01: \$0 Total: \$1,037,000 <i>Prin. Invest.:</i> D J WASSERBURG <i>Tech. Officer:</i> HQ/J BOYCE CASE Category: 12 – CHEMISTRY</p>
<p>NAG 3 2358 CALIFORNIA INST OF TECHNOLOGY 1655 GRANULAR MATERIAL FLOWS WITH INTERSTITIAL FLUID EFFECTS 03/12/2000 – 11/30/2003 FY01: \$76,088 Total: \$126,185 <i>Prin. Invest.:</i> M L HUNT <i>Tech. Officer:</i> GRC/J H AGUI CASE Category: 49 – ENGINEERING, OTHER</p>	<p>NAG 5 4093 CALIFORNIA INST OF TECHNOLOGY 1664 RESEARCH IN GRAVITATION ASTROPHYSICS 03/10/1997 – 12/31/2001 FY01: \$44,000 Total: \$183,500 <i>Prin. Invest.:</i> P LINDBLOM <i>Tech. Officer:</i> GSFC/H HASAN CASE Category: 11 – ASTRONOMY</p>
<p>NAG 5 3239 CALIFORNIA INST OF TECHNOLOGY 1656 STUDIES OF PERIODIC AND APERIODIC VARIABILITY IN A CCRETING NEUTRON STAR BINARY SYSTEMS 05/21/1996 – 04/30/2001 FY01: \$0 Total: \$440,000 <i>Prin. Invest.:</i> T A PRINCE <i>Tech. Officer:</i> GSFC/D WEST CASE Category: 11 – ASTRONOMY</p>	<p>NAG 5 4097 CALIFORNIA INST OF TECHNOLOGY 1665 NOVEL, COMPACT UV/VIS & VUV COHERENT LIGHT SOURCES SPECTROSCOPY OF POTENTIAL DIB CARRIERS 03/10/1997 – 03/14/2000 FY01: \$0 Total: \$215,215 <i>Prin. Invest.:</i> P A BLAKE <i>Tech. Officer:</i> GSFC/H HASAN CASE Category: 11 – ASTRONOMY</p>
<p>NAG 5 3466 CALIFORNIA INST OF TECHNOLOGY 1657 INNOVATIVE RESEARCH PROGRAM. SILICON RADIATION DET 01/31/1997 – 07/31/2000 FY01: \$0 Total: \$265,049 <i>Prin. Invest.:</i> R A MEWALDT <i>Tech. Officer:</i> GSFC/D HOLLAND CASE Category: 12 – CHEMISTRY</p>	<p>NAG 5 4191 CALIFORNIA INST OF TECHNOLOGY 1666 DYNAMICS OF PLANETARY ATMOSPHERES 06/27/1997 – 11/30/2001 FY01: \$70,000 Total: \$376,230 <i>Prin. Invest.:</i> D P INGERSOLL <i>Tech. Officer:</i> GSFC/J BERGSTRALH CASE Category: 31 – ATMOSPHERIC SCIENCE</p>
<p>NAG 5 3560 CALIFORNIA INST OF TECHNOLOGY 1658 ISO BLOCK GRANT SUPPORT 01/15/1997 – 12/31/1999 FY01: -\$14,918 Total: \$499,569 <i>Prin. Invest.:</i> B T SOIFER <i>Tech. Officer:</i> GSFC/D K WEST CASE Category: 11 – ASTRONOMY</p>	<p>NAG 5 4196 CALIFORNIA INST OF TECHNOLOGY 1667 DEVELOPMENT OF A SUBMILLIMETER-WAVELENGTH IMMERSION 03/17/1997 – 02/29/2000 FY01: -\$319 Total: \$174,164 <i>Prin. Invest.:</i> D SERABYN <i>Tech. Officer:</i> GSFC/H THRONSON CASE Category: 11 – ASTRONOMY</p>
<p>NAG 5 3765 CALIFORNIA INST OF TECHNOLOGY 1659 PLANETARY ORIGIN, EVOLUTION AND STRUCTURE 02/11/1997 – 04/30/2001 FY01: \$0 Total: \$349,514 <i>Prin. Invest.:</i> D J STEVENSON <i>Tech. Officer:</i> GSFC/P G RODGERS CASE Category: 32 – GEOLOGICAL SCIENCE</p>	<p>NAG 5 4206 CALIFORNIA INST OF TECHNOLOGY 1668 IMPACT CRATERING CALCULATIONS 03/15/1997 – 03/31/2000 FY01: -\$995 Total: \$223,005 <i>Prin. Invest.:</i> T J AHRENS <i>Tech. Officer:</i> GSFC/J G GRANT CASE Category: 32 – GEOLOGICAL SCIENCE</p>

NAG 5 4318 CALIFORNIA INST OF TECHNOLOGY 1669
 EXPERIMENTAL STUDIES OF PHASE EQUILIBRIA OF METEOR INTERIORS
 04/04/1997 – 02/28/2001 FY01: \$0 Total: \$588,000
Prin. Invest.: D M STOLPER
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4319 CALIFORNIA INST OF TECHNOLOGY 1670
 EXPERIMENTAL AND ANALYTICAL STUDIES OF SOLAR SYSTE
 04/04/1997 – 01/31/2002 FY01: \$125,000 Total: \$594,000
Prin. Invest.: D S BURNETT
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 4383 CALIFORNIA INST OF TECHNOLOGY 1671
 A LABORATORY AND OBSERVATIONAL STUDY OF THE CHEMIC STELLAR
 NEBULAE
 05/06/1997 – 02/28/2000 FY01: -\$922 Total: \$119,078
Prin. Invest.: P A BLAKE
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4437 CALIFORNIA INST OF TECHNOLOGY 1672
 PARTICIPATION OF D.O. MUHLEMAN AS A CO-INVESTIGATO OBSERVER
 LASER ALTIMETER (MOLA) TEAM
 04/28/1997 – 12/31/2001 FY01: \$26,290 Total: \$360,394
Prin. Invest.: D O MUHLEMAN
Tech. Officer: GSFC/D E SMITH
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 4599 CALIFORNIA INST OF TECHNOLOGY 1673
 MILLIMETER INTERFEROMETRY OF PROTO-PLANETARY DISKS
 06/06/1997 – 12/31/2000 FY01: \$0 Total: \$305,914
Prin. Invest.: D I SARGENT
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4692 CALIFORNIA INST OF TECHNOLOGY 1674
 LABORATORY STUDIES OF THE PHOTOPHYSICS AND PHOTOCHEMISTRY AND
 PAH CATIONS
 06/20/1997 – 12/31/1999 FY01: \$0 Total: \$114,000
Prin. Invest.: P A BLAKE
Tech. Officer: GSFC/G STRINGFELLOW
CASE Category: 11 – ASTRONOMY

NAG 5 5052 CALIFORNIA INST OF TECHNOLOGY 1675
 GLOBAL MAPPING OF THE INTERSTELLAR MEDIUM IN THE FAR-ULTRAVIOLET
 01/24/1996 – 06/30/2001 FY01: \$0 Total: \$1,281,913
Prin. Invest.: C MARTIN
Tech. Officer: GSFC/R H PLESS
CASE Category: 11 – ASTRONOMY

NAG 5 5166 CALIFORNIA INST OF TECHNOLOGY 1676
 INTEGRATED-CIRCUIT READOUT FOR THE ACCESS SILICON ARRAY
 03/26/1998 – 06/30/2001 FY01: \$20,090 Total: \$112,710
Prin. Invest.: R A MEWALDT
Tech. Officer: GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 5203 CALIFORNIA INST OF TECHNOLOGY 1677
 ULTRA HEAVY AND HEAVY COSMIC-RAY MEASUREMENTS ON ACCESS
 08/29/1998 – 02/28/2002 FY01: \$0 Total: \$119,067
Prin. Invest.: R A MEWALDT
Tech. Officer: GSFC/B A MERRITT
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 5207 CALIFORNIA INST OF TECHNOLOGY 1678
 TWO-DIMENSIONAL HILBERT-HUANG TRANSFORM METHOD FOR DATA
 ANALYSIS
 08/27/1998 – 09/30/2001 FY01: \$0 Total: \$96,988
Prin. Invest.: T Y WU
Tech. Officer: GSFC/S R LONG, GSFC/N E HUANG
CASE Category: 33 – OCEANOGRAPHY

NAG 5 5216 CALIFORNIA INST OF TECHNOLOGY 1679
 A PROPOSAL FOR CONVERSION OF THE TRANS-IRON GALACTIC
 ELEMENT RECORDER (TIGER) PI STONE
 12/01/1998 – 11/30/2001 FY01: \$0 Total: \$76,156
Prin. Invest.: E C STONE
Tech. Officer: GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 5227 CALIFORNIA INST OF TECHNOLOGY 1680
 FIRST INCREMENTAL FUNDING FOR NAG5-5227 PI DR. EDWARD C. STONE
 03/29/1999 – 11/30/2001 FY01: \$88,000 Total: \$480,200
Prin. Invest.: E C STONE
Tech. Officer: GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 5228 CALIFORNIA INST OF TECHNOLOGY 1681
 FIRST YEAR FUNDING FOR NAG5-5228 PI DR. EDWARD C STONE
 03/29/1999 – 11/30/2001 FY01: \$72,000 Total: \$215,632
Prin. Invest.: E C STONE
Tech. Officer: GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 5286 CALIFORNIA INST OF TECHNOLOGY 1682
 HIGH SPECTRAL & SPATIAL RESOLUTION GE DETECTOR & READOUT
 TECHNOLOGIES FOR NUCLEAR SPECTROSCOPIC IMAGING
 05/31/2000 – 05/17/2002 FY01: \$0 Total: \$44,000
Prin. Invest.: S BOGGS
Tech. Officer: GSFC/B A MERRITT
CASE Category: 11 – ASTRONOMY

NAG 5 5289 CALIFORNIA INST OF TECHNOLOGY 1683
 HIGH ENERGY FOCUSING TELESCOPE HIGH ENERGY FOCUSING TELESCOPE
 06/02/2000 – 05/25/2003 FY01: \$725,000 Total: \$1,405,000
Prin. Invest.: F HARRISON
Tech. Officer: GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 5303 CALIFORNIA INST OF TECHNOLOGY 1684
 GLOBAL MAPPING OF THE COSMIC UV BACKGROUND GLOBAL MAPPING
 OF THE COSMIC UV BACKGROUND
 09/29/2000 – 09/27/2002 FY01: \$301,440 Total: \$301,440
Prin. Invest.: C MARTIN
Tech. Officer: WFF/J C BRINTON
CASE Category: 13 – PHYSICS

NAG 5 5322 CALIFORNIA INST OF TECHNOLOGY 1685
 THE PRESIDENTIAL EARLY CAREER AWARD (PECA)
 03/21/2001 – 10/31/2006 FY01: \$100,000 Total: \$100,000
Prin. Invest.: F HARRISON
Tech. Officer: WFF/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 5338 CALIFORNIA INST OF TECHNOLOGY 1686
 DETERMINATION OF THE CONFIDENCE LIMIT ON HHT RESULTS
 07/09/2001 – 09/30/2002 FY01: \$30,992 Total: \$30,992
Prin. Invest.: T WU
Tech. Officer: WFF/S LONG
CASE Category: 33 – OCEANOGRAPHY

NAG 5 6173 CALIFORNIA INST OF TECHNOLOGY 1687
 PRECISION SOLAR DISK PHOTOMETRY -- A TOOL FOR UNDE HE SUN'S
 LUMINOSITY
 08/26/1997 – 05/31/2000 FY01: \$0 Total: \$134,912
Prin. Invest.: D G LIBBRECHT
Tech. Officer: GSFC/W J WAGNER
CASE Category: 11 – ASTRONOMY

NAG 5 6263 CALIFORNIA INST OF TECHNOLOGY 1688
 PHOTOCHEMICAL STUDIES OF CHEMISTRY IN OUTER SOLAR
 08/21/1997 – 12/31/2001 FY01: \$82,000 Total: \$401,012
Prin. Invest.: D L YUNG
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 6402 CALIFORNIA INST OF TECHNOLOGY 1689
 5HE ORIGIN AND EVOLUTION OF NEUTRON STARS_(LTSA)
 10/15/1997 – 10/31/2001 FY01: \$109,000 Total: \$418,000
Prin. Invest.: S KULKARNI
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 6573 CALIFORNIA INST OF TECHNOLOGY 1690
 US PARTICIPATION IN PLANCK, HFI PORTION
 11/18/1997 – 07/31/2001 FY01: \$0 Total: \$1,379,000
Prin. Invest.: D E LANGE
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 – ASTRONOMY

NAG 5 6816 CALIFORNIA INST OF TECHNOLOGY 1691
 SUBMILLIMETER WAVELENGTH SPECTROSCOPY AND IMAGING OF THE
 PLANETS
 01/07/1998 – 12/31/2001 FY01: \$0 Total: \$137,405
Prin. Invest.: E SERABYN, NONE
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 – ASTRONOMY

NAG 5 6840 CALIFORNIA INST OF TECHNOLOGY 1692
 LOW-FREQUENCY GRAVITATIONAL-WAVE SOURCES AND THEIR IMPLICA-
 TIONS FOR FUTURE NASA MISSIONS
 01/09/1998 – 12/31/2000 FY01: \$0 Total: \$200,000
Prin. Invest.: K THORNE
Tech. Officer: GSFC/H HASAN
CASE Category: 11 – ASTRONOMY

NAG 5 6912 CALIFORNIA INST OF TECHNOLOGY 1693
 MO&DA OF THE ADVANCED COMPOSITION EXPLORER MISSION
 01/30/1998 – 01/31/2002 FY01: \$1,501,700 Total: \$13,828,115
Prin. Invest.: E STONE
Tech. Officer: GSFC/B WORRALL
CASE Category: 11 – ASTRONOMY

NAG 5 6941 CALIFORNIA INST OF TECHNOLOGY 1694
 THE ACCRETION HISTORY OF EXTRATERRESTRIAL MATTER O VER
 GEOLOGIC TIME FROM THE SEAFLOOR SEDIMENTS
 02/06/1998 – 03/31/2001 FY01: \$0 Total: \$130,138
Prin. Invest.: K A FARLEY
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 6981 CALIFORNIA INST OF TECHNOLOGY 1695
 BROWN DWARFS: DETECTION AND DETAILED STUDIES
 02/06/1998 – 08/14/2001 FY01: \$0 Total: \$181,000
Prin. Invest.: S KULKARNI
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 7007 CALIFORNIA INST OF TECHNOLOGY 1696
 BLACK HOLE ASTROPHYSICS _ ATP
 02/11/1998 – 08/31/2001 FY01: \$0 Total: \$257,591
Prin. Invest.: R BLANDFORD
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 7008 CALIFORNIA INST OF TECHNOLOGY 1697
 SPECTRAL ENERGY DISTRIBUTION OF T TAURI DISKS _ AT P
 02/18/1998 – 08/31/2000 FY01: -\$10 Total: \$87,135
Prin. Invest.: P M GOLDRREICH
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 7034 CALIFORNIA INST OF TECHNOLOGY 1698
 ORIGIN AND EVOLUTION OF THE SPINS AND FIELDS OF WH ITE DWARFS,
 NEUTRON STARS AND BLACK HOLES – ATP
 02/18/1998 – 08/14/2001 FY01: \$0 Total: \$243,017
Prin. Invest.: E PHINNEY
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 7081 CALIFORNIA INST OF TECHNOLOGY 1699
 ADVANCED SPACE PARTICLE ANALYSIS SYSTEM
 03/10/1998 – 03/31/2002 FY01: \$121,585 Total: \$376,096
Prin. Invest.: J BEAUCHAMP
Tech. Officer: GSFC/B CAMPBELL
CASE Category: 11 – ASTRONOMY

NAG 5 7166 CALIFORNIA INST OF TECHNOLOGY 1700
 HIGHER FLUX FROM THE YOUNG SUN AS AN EXPLANATION F OR WARM
 TEMPERATURES FOR EARLY EARTH AND MARS
 03/16/1998 – 10/14/2001 FY01: \$37,076 Total: \$236,261
Prin. Invest.: I SACKMANN
Tech. Officer: GSFC/W WAGNER
CASE Category: 11 – ASTRONOMY

NAG 5 7230 CALIFORNIA INST OF TECHNOLOGY 1701
 STUDY OF TROPOSPHERIC OZONE AND UV REFLECTIVITY USING TOMS
 DATA
 04/16/1998 – 05/31/2002 FY01: \$15,241 Total: \$222,474
Prin. Invest.: Y L YUNG
Tech. Officer: GSFC/E HILSEN RATH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 7501 CALIFORNIA INST OF TECHNOLOGY 1702
 THE STELLAR POPULATIONS EMERGING FROM MOLECULAR CLOUDS AND
 THEIR SURVIVAL TIMES OF (PROTOPLASMA)
 06/02/1998 – 05/31/2000 FY01: \$0 Total: \$31,100
Prin. Invest.: D HILLENBRAND
Tech. Officer: HQ/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 7680 CALIFORNIA INST OF TECHNOLOGY 1703
 VARIABILITY OF CLOUDS OVER A SOLAR CYCLE YEAR 1 OF A 3 YEAR
 GRANT
 09/17/1998 – 12/31/2001 FY01: \$0 Total: \$242,005
Prin. Invest.: Y L YUNG
Tech. Officer: GSFC/M CHOU
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 8049 CALIFORNIA INST OF TECHNOLOGY 1704
 ATMOSPHERIC DYNAMICS AND AURORAL PHENOMENA DERIVED FROM
 GALILEO IMAGES
 01/15/1999 – 01/14/2001 FY01: \$0 Total: \$126,368
Prin. Invest.: D P INGERSOLL
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 – ASTRONOMY

NAG 5 8217 CALIFORNIA INST OF TECHNOLOGY 1705
 STAR FORMATION IN GIANT MOLECULAR CLOUDS_L TSA98
 02/08/1999 – 02/14/2002 FY01: \$104,707 Total: \$206,841
Prin. Invest.: J M CARPENTER
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 8251 CALIFORNIA INST OF TECHNOLOGY 1706
 GEOCHEMICAL AND ISOTOPIC INVESTIGATIONS OF LUNAR & PLANETARY
 MATERIALS
 02/10/1999 – 02/14/2002 FY01: \$345,000 Total: \$1,030,000
Prin. Invest.: D A PAPANASTASSIOU
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 8318 CALIFORNIA INST OF TECHNOLOGY 1707
 MILLISECOND PULSARS AND PLANETARY SYSTEMS
 03/30/1999 – 09/30/2001 FY01: \$50,000 Total: \$145,000
Prin. Invest.: S R KULKARNI
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 8463 CALIFORNIA INST OF TECHNOLOGY 1708
 LONG TERM MONITORING OF THE IO PLASMA TORUS DURING THE
 GALILEO ENCOUNTER PERIOD
 04/19/1999 – 11/30/2000 FY01: \$0 Total: \$80,000
Prin. Invest.: M E BROWN
Tech. Officer: GSFC/D VEANS
CASE Category: 11 – ASTRONOMY

NAG 5 8535 CALIFORNIA INST OF TECHNOLOGY 1709
 HIGH RESOLUTION, HIGH ENERGY FOCUSING OPTICS FOR THE NEXT
 GENERATION GAMMA RAY EXPLORER.
 07/08/1999 – 07/14/2002 FY01: \$0 Total: \$541,664
Prin. Invest.: F A HARRISON
Tech. Officer: GSFC/G MUCKLOW
CASE Category: 13 – PHYSICS

NAG 5 8576 CALIFORNIA INST OF TECHNOLOGY 1710
 NEW GRANT: YEAR 1 OF 2 FOR "A BEOWULF SYSTEM SOFTWARE
 INITIATIVE"
 05/27/1999 – 05/31/2001 FY01: \$0 Total: \$149,988
Prin. Invest.: T STERLING
Tech. Officer: GSFC/J FISCHER
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 8743 CALIFORNIA INST OF TECHNOLOGY 1711
 VERY HIGH SPECTRAL & SPATIAL RESOLUTION GEODETIC TORS &
 READOUT ELECTRONICS FOR HARD X-RAY ASTRONOMY
 08/20/1999 – 08/31/2002 FY01: \$0 Total: \$221,519
Prin. Invest.: S BOGGS
Tech. Officer: GSFC/F A HERRERO
CASE Category: 11 – ASTRONOMY

NAG 5 8822 CALIFORNIA INST OF TECHNOLOGY 1712
 SPECTROSCOPIC STUDIES OF PRE-BIOTIC CARBON CHEMISTRY
 09/08/1999 – 08/31/2001 FY01: \$0 Total: \$106,520
Prin. Invest.: G BLAKE
Tech. Officer: GSFC/M MEYER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 8907 CALIFORNIA INST OF TECHNOLOGY 1713
 IMPACT & COLLISIONAL PROCESSES IN THE SOLAR SYSTEM
 12/29/1999 – 09/30/2000 FY01: \$0 Total: \$152,000
Prin. Invest.: T J AHRENS
Tech. Officer: GSFC/J A GRANT
CASE Category: 11 – ASTRONOMY

NAG 5 8915 CALIFORNIA INST OF TECHNOLOGY 1714
 IMPACT CRATERING CALCULATIONS
 01/05/2000 – 09/30/2000 FY01: \$0 Total: \$30,000
Prin. Invest.: T AHRENS
Tech. Officer: GSFC/J A GRANT
CASE Category: 11 – ASTRONOMY

NAG 5 8922 CALIFORNIA INST OF TECHNOLOGY 1715
 PARTICIPATION OF THE NITRIC ACID CIMS INSTRUMENT IN THE SAGE III
 OZONE LOSS & VALIDATION EXPERIMENT
 01/06/2000 – 12/31/2001 FY01: \$179,057 Total: \$408,557
Prin. Invest.: P WENNERBERG
Tech. Officer: GSFC/P DECOLA
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 9307 CALIFORNIA INST OF TECHNOLOGY 1716
 CLOSEOUT OF "LABORATORY STUDIES OF THE PHOTOCHEMISTRY OF
 PEROXYNITRIC ACID" ASSET FORTH IN THE ATT
 03/22/2000 – 03/31/2002 FY01: \$53,125 Total: \$123,169
Prin. Invest.: D O WENNERBERG, NONE
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 9344 CALIFORNIA INST OF TECHNOLOGY 1717
 BALLOON-BORNE OBSERVATIONS OF THE POLARIZATION OF THE COSMIC
 MICROWAVE BACKGROUND
 03/27/2000 - 03/31/2003 FY01: \$167,580 Total: \$310,150
Prin. Invest.: A LANGE
Tech. Officer: GSFC/G STRINGFELLOW
CASE Category: 11 - ASTRONOMY

NAG 5 9434 CALIFORNIA INST OF TECHNOLOGY 1718
 THE PHYSICAL & CHEMICAL STRUCTURE OF CIRCUMSTELLAR DISKS &
 ENVELOPES
 04/24/2000 - 04/14/2001 FY01: \$0 Total: \$35,000
Prin. Invest.: G A BLAKE
Tech. Officer: GSFC/J BOYCE/SR
CASE Category: 11 - ASTRONOMY

NAG 5 9462 CALIFORNIA INST OF TECHNOLOGY 1719
 USE OF SATELLITE FIRE PRODUCTS AND MODELS TO INVESTIGATE THE
 EFFECTS OF FIRE ON THE GLOBAL CARBON C
 04/18/2000 - 04/30/2003 FY01: \$159,706 Total: \$283,253
Prin. Invest.: J RANDERSON
Tech. Officer: GSFC/D WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9471 CALIFORNIA INST OF TECHNOLOGY 1720
 ATMOSPHERIC TRACE GAS ABUNDANCES & STABLE ISOTOPE RATIOS VIA
 INFRARED LASER INDUCED FLUORESCENCE (IR
 04/14/2000 - 04/30/2002 FY01: \$166,500 Total: \$323,343
Prin. Invest.: G BLAKE
Tech. Officer: GSFC/B BETTS
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 9482 CALIFORNIA INST OF TECHNOLOGY 1721
 KNOWLEDGE DISCOVERY AND DATABASE TECHNOLOGIES FOR DIGITAL
 SKY SURVEYS AND VIRTUAL OBSERVATORIES
 04/21/2000 - 04/30/2002 FY01: \$0 Total: \$100,000
Prin. Invest.: S DJORGOVSKI
Tech. Officer: GSFC/J BREDEKAMP
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9487 CALIFORNIA INST OF TECHNOLOGY 1722
 INTERANNUAL VARIABILITY OF SNOW AND ICE AND IMPACT ON THE
 CARBON CYCLE
 04/25/2000 - 04/30/2002 FY01: \$169,917 Total: \$278,162
Prin. Invest.: Y L YUNG
Tech. Officer: GSFC/P HOUSER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9493 CALIFORNIA INST OF TECHNOLOGY 1723
 DEVELOPMENT OF SUBMILLIMETER SIS MIXERS AND BROAD BAND HEMT
 AMPLIFIERS
 04/18/2000 - 04/30/2003 FY01: \$170,000 Total: \$288,000
Prin. Invest.: J ZMUIDZINAS
Tech. Officer: GSFC/G STRINGFELLOW
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9530 CALIFORNIA INST OF TECHNOLOGY 1724
 MILLIMETER-WAVE INTERFEROMETRY OF PROTO-PLANETARY DISKS
 04/27/2000 - 04/30/2003 FY01: \$85,000 Total: \$170,000
Prin. Invest.: S SARGENT
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 9601 CALIFORNIA INST OF TECHNOLOGY 1725
 MARTIAN ATMOSPHERIC CIRCULATION AND CLIMATE
 05/17/2000 - 04/30/2002 FY01: \$67,100 Total: \$135,300
Prin. Invest.: A P INGERSOL
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 9603 CALIFORNIA INST OF TECHNOLOGY 1726
 VIRTUAL OBSERVATORIES OF THE FUTURE
 05/19/2000 - 05/14/2002 FY01: \$0 Total: \$25,000
Prin. Invest.: S DJORGOVSKI
Tech. Officer: GSFC/J BREDEKAMP
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9606 CALIFORNIA INST OF TECHNOLOGY 1727
 IMPLICATIONS OF MARTIAN NORTH-SOUTH POLAR DIFFERENCES
 05/12/2000 - 05/14/2002 FY01: \$52,000 Total: \$100,700
Prin. Invest.: B C MURRAY
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 9687 CALIFORNIA INST OF TECHNOLOGY 1728
 IN SITU CHEMICAL IMAGER
 06/05/2000 - 05/31/2001 FY01: \$0 Total: \$94,150
Prin. Invest.: J L KIRSCHVINK
Tech. Officer: GSFC/B BETTS
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9821 CALIFORNIA INST OF TECHNOLOGY 1729
 COSMOLOGY & PARTICLE ASTROPHYSICS THEORY (ATP-98)
 08/23/2000 - 04/30/2002 FY01: \$75,000 Total: \$190,107
Prin. Invest.: M P KAMIONKOWSKI
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9856 CALIFORNIA INST OF TECHNOLOGY 1730
 ROCKET-BORNE OBSERVATIONS OF SPATIAL FLUCTUATIONS IN THE
 COSMIC NEAR INFRARED BACKGROUND
 08/07/2000 - 08/14/2001 FY01: \$0 Total: \$94,200
Prin. Invest.: A LANGE
Tech. Officer: GSFC/G STRINGFELLOW
CASE Category: 11 - ASTRONOMY

NAG 5 9919 CALIFORNIA INST OF TECHNOLOGY 1731
 THE HOT PHASE OF THE VIOLENT ISM OF NEARBY DWARF IRREGULAR
 GALAXIES
 09/05/2000 - 09/30/2002 FY01: \$17,000 Total: \$46,300
Prin. Invest.: F WALTER
Tech. Officer: GSFC/R F MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 9920 CALIFORNIA INST OF TECHNOLOGY 1732
 A DETAILED STUDY OF TWO OPTICALLY-SELECTED, HIGH-REDSHIFT
 CLUSTERS OF GALAXIES
 09/05/2000 - 11/30/2000 FY01: -\$28,595 Total: \$0
Prin. Invest.: L M LUBIN
Tech. Officer: GSFC/R F MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10047 CALIFORNIA INST OF TECHNOLOGY 1733
 MEASURING THE MAGNETIC FIELD AND RELATIVISTIC PARTICLES IN
 RELIC RADIO GALAXIES
 10/03/2000 – 09/30/2001 FY01: \$27,000 Total: \$27,000
Prin. Invest.: F A HARRISON
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 – ASTRONOMY

NAG 5 10189 CALIFORNIA INST OF TECHNOLOGY 1734
 PLANETARY ORIGIN, EVOLUTION AND STRUCTURE
 01/03/2001 – 01/14/2002 FY01: \$88,400 Total: \$88,400
Prin. Invest.: D J STEVENSON
Tech. Officer: GSFC/D SENSKE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 10198 CALIFORNIA INST OF TECHNOLOGY 1735
 IMPACT PROCESSES IN THE SOLAR SYSTEM
 01/04/2001 – 12/31/2001 FY01: \$218,600 Total: \$218,600
Prin. Invest.: T AHRENS
Tech. Officer: GSFC/D SENSKE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10208 CALIFORNIA INST OF TECHNOLOGY 1736
 IMPACT CRATERING CALCULATIONS
 01/02/2001 – 09/30/2001 FY01: \$30,000 Total: \$30,000
Prin. Invest.: T AHRENS
Tech. Officer: GSFC/D SENSKE
CASE Category: 11 – ASTRONOMY

NAG 5 10293 CALIFORNIA INST OF TECHNOLOGY 1737
 APPLICATION OF ISOTOPIC AND CHEMICAL ANALYSES TO UNDER-
 STANDING THE ORIGIN OF EXTRATERRESTRIAL
 02/06/2001 – 02/14/2002 FY01: \$100,000 Total: \$100,000
Prin. Invest.: G J WASSERBURG
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 10317 CALIFORNIA INST OF TECHNOLOGY 1738
 LARGE-FORMAT, ANTENNA-COUPLED, MULTI-FREQUENCY, BOLOMETRIC
 (LAMB) FOCAL PLANE ARRAYS FOR MM & SUB
 02/07/2001 – 01/31/2002 FY01: \$169,894 Total: \$169,894
Prin. Invest.: A E LANGE
Tech. Officer: GSFC/E J WOLLACK
CASE Category: 11 – ASTRONOMY

NAG 5 10358 CALIFORNIA INST OF TECHNOLOGY 1739
 DEVELOPMENT OF SUPERCONDUCTING DETECTOR WITH MULTIPLEXED
 READOUTS-
 02/01/2001 – 01/14/2002 FY01: \$218,870 Total: \$218,870
Prin. Invest.: J ZMUIZINAS
Tech. Officer: GSFC/C STAHL
CASE Category: 13 – PHYSICS

NAG 5 10406 CALIFORNIA INST OF TECHNOLOGY 1740
 A NEOTECTONIC MAP OF THE EARTH: A PILOT STUDY OF SRTM DATA
 04/02/2001 – 03/31/2002 FY01: \$75,000 Total: \$75,000
Prin. Invest.: K E SIEH
Tech. Officer: GSFC/H V FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 10410 CALIFORNIA INST OF TECHNOLOGY 1741
 MINIATURE IRON BIOMINERAL DETECTOR FOR MARTIAN EXO BIOLOGY
 04/10/2001 – 04/14/2002 FY01: \$166,514 Total: \$166,514
Prin. Invest.: J KIRSCHVINK
Tech. Officer: GSFC/B BETTS
CASE Category: 11 – ASTRONOMY

NAG 5 10423 CALIFORNIA INST OF TECHNOLOGY 1742
 EXPERIMENTAL STUDIES OF PHASE EQUILIBRIA OF METEORITES AND
 PLANETARY BODIES
 02/20/2001 – 02/28/2002 FY01: \$150,000 Total: \$150,000
Prin. Invest.: E STOLPER
Tech. Officer: GSFC/J BOYCE
CASE Category: 12 – CHEMISTRY

NAG 5 10467 CALIFORNIA INST OF TECHNOLOGY 1743
 THE STRUCTURE OF YOUNG STELLAR SYSTEMS: ESTABLISHING INITIAL
 CONDITIONS FOR PLANET FORMATION
 02/22/2001 – 02/28/2002 FY01: \$45,000 Total: \$45,000
Prin. Invest.: G BLAKE
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 10470 CALIFORNIA INST OF TECHNOLOGY 1744
 TEMPORAL VARIABILITY IN THE ACCRETION RATE OF INTERPLANETARY
 DUST USING THE ASA TRACER
 02/27/2001 – 03/31/2002 FY01: \$48,900 Total: \$48,900
Prin. Invest.: K A FARLEY
Tech. Officer: GSFC/D SENSKE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 10558 CALIFORNIA INST OF TECHNOLOGY 1745
 BROWN DWARFS: DISCOVERY AND DETAILED STUDIES
 03/13/2001 – 03/14/2002 FY01: \$30,000 Total: \$30,000
Prin. Invest.: S KULKARNI
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 10587 CALIFORNIA INST OF TECHNOLOGY 1746
 MARS INTERNAL EVOLUTION CONSTRAINED BY MGS DATA
 03/13/2001 – 03/14/2002 FY01: \$60,000 Total: \$60,000
Prin. Invest.: D STEVENSON
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 10602 CALIFORNIA INST OF TECHNOLOGY 1747
 SUPPORT FOR THE 2001 GORDON RESEARCH CONFERENCE ON THE
 ORIGINS OF SOLAR SYSTEMS
 03/21/2001 – 02/28/2002 FY01: \$15,000 Total: \$15,000
Prin. Invest.: D STEVENSON
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 10618 CALIFORNIA INST OF TECHNOLOGY 1748
 PALEOMAGNETIC CONSTRAINTS ON PANSPERMIA AND THE ALH84001
 MAGNETOFOSSELS
 03/19/2001 – 03/31/2002 FY01: \$72,000 Total: \$72,000
Prin. Invest.: J L KIRSCHVINK
Tech. Officer: GSFC/M MEYER
CASE Category: 11 – ASTRONOMY

NAG 5 10707 CALIFORNIA INST OF TECHNOLOGY 1749
 SOURCES OF LOW FREQUENCY GRAVITATIONAL WAVES (ATP 2000)
 04/23/2001 – 04/30/2002 FY01: \$128,000 Total: \$128,000
Prin. Invest.: E PHINNEY
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 10724 CALIFORNIA INST OF TECHNOLOGY 1750
 CIRRUS CLOUDS ON MARS: DATA ANALYSIS AND GCM MODEL ING
 04/12/2001 – 04/14/2002 FY01: \$60,000 Total: \$60,000
Prin. Invest.: Y YUNG
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 10761 CALIFORNIA INST OF TECHNOLOGY 1751
 UNDERSTANDING GAMMA-RAY BURSTS (ATP 2000)
 04/23/2001 – 04/30/2002 FY01: \$28,373 Total: \$28,373
Prin. Invest.: R SARI
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 10804 CALIFORNIA INST OF TECHNOLOGY 1752
 CONCEPT STUDY FOR THE "THE HEAVY NUCLEI EXPLORER" (HNX)
 MISSION AO-99-OSS-05
 04/30/2001 – 04/30/2002 FY01: \$47,600 Total: \$47,600
Prin. Invest.: D A MEWALDT
Tech. Officer: GSFC/J R BYRD
CASE Category: 11 – ASTRONOMY

NAG 5 10885 CALIFORNIA INST OF TECHNOLOGY 1753
 THE MULTI-WAVELENGTH EXTRAGALACTIC SKY (ADP 2000)
 05/03/2001 – 05/14/2002 FY01: \$48,148 Total: \$48,148
Prin. Invest.: R J BRUNNER
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 10901 CALIFORNIA INST OF TECHNOLOGY 1754
 A MECHANISM FOR SOLAR FORDING OF CLIMATE: DID THE MAUNDER
 MINIMUM CAUSE THE LITTLE ICE AGE?
 05/07/2001 – 05/14/2002 FY01: \$166,768 Total: \$166,768
Prin. Invest.: Y L YUNG
Tech. Officer: GSFC/J F SPANN
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10955 CALIFORNIA INST OF TECHNOLOGY 1755
 A STUDY OF EXTREMELY RED GALAXIES
 05/30/2001 – 05/31/2002 FY01: \$64,879 Total: \$64,879
Prin. Invest.: D THOMPSON
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 11157 CALIFORNIA INST OF TECHNOLOGY 1756
 LABORATORY STUDIES OF THE PHOTOCHEMISTRY OF PEROXY NITRIC
 ACID
 08/01/2001 – 07/31/2004 FY01: \$17,000 Total: \$17,000
Prin. Invest.: P O WENBERG
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 11214 CALIFORNIA INST OF TECHNOLOGY 1757
 OBSERVATIONAL AND MODELING STUDIES OF THE SOUTH PO LAR
 RESIDUAL CAP
 08/13/2001 – 08/14/2002 FY01: \$40,000 Total: \$40,000
Prin. Invest.: A P INGERSOLL
Tech. Officer: GSFC/J BOYCE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 11257 CALIFORNIA INST OF TECHNOLOGY 1758
 AEOLIAN TRANSPORT PROCESSES ON MARS: SURFACE OBSE RVATIONS
 AND MESOSCALEMODELING
 08/17/2001 – 08/31/2003 FY01: \$70,000 Total: \$70,000
Prin. Invest.: A ALBEE
Tech. Officer: HQ/J BOYCE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 11273 CALIFORNIA INST OF TECHNOLOGY 1759
 THE EXPLORATION OF THE OUTER SOLAR SYSTEM
 08/22/2001 – 09/30/2004 FY01: \$100,000 Total: \$100,000
Prin. Invest.: M BROWN
Tech. Officer: GSFC/T MORGAN
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 11288 CALIFORNIA INST OF TECHNOLOGY 1760
 DAILY WEATHER MAPS FROM MARS ORBITER IMAGES
 08/20/2001 – 08/31/2004 FY01: \$71,900 Total: \$71,900
Prin. Invest.: A INGERSOLL
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 8 1237 CALIFORNIA INST OF TECHNOLOGY 1761
 DISPERSION MICROSTRUCTURE AND RHEOBYG IN CERAMICS PROC-
 ESSING
 04/22/1996 – 01/31/2001 FY01: -\$398 Total: \$299,358
Prin. Invest.: D F BRADY
Tech. Officer: MSFC/P DOTY, MSFC/R POWER
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 8 1661 CALIFORNIA INST OF TECHNOLOGY 1762
 DISPERSION MICROSTRUCTURE AND PHEOLOGY IN CERAMICS PROC-
 ESSING
 05/16/2000 – 11/30/2003 FY01: \$76,000 Total: \$120,994
Prin. Invest.: J BRADY, NONE
Tech. Officer: MSFC/P DOTY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1743 CALIFORNIA INST OF TECHNOLOGY 1763
 MEASUREMENT OF THERMOPHYSICAL PROPERTIES OF MOLTEN SILICON
 AND GERMANIUM
 09/27/2000 – 09/30/2003 FY01: \$47,500 Total: \$197,500
Prin. Invest.: W K RHIM
Tech. Officer: MSFC/P DOTY
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 8 1744 CALIFORNIA INST OF TECHNOLOGY 1764
 MEASUREMENT OF THERMOPHYSICAL PROPERTIES OF MOLTEN SILLICON
 AND GERMANIUM
 09/27/2000 – 09/30/2004 FY01: \$496,500 Total: \$596,500
Prin. Invest.: W L JOHNSON
Tech. Officer: MSFC/P DOTY
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 8 1763 CALIFORNIA INST OF TECHNOLOGY 1765
 THE CQ EXPERIMENT ENHANCED HEAT CAPACITY OF SUPERFLUID
 HELIUM IN A HEAT FLUX
 05/01/2001 - 06/30/2001 FY01: \$120,000 Total: \$120,000
Prin. Invest.: D GOODSTEIN
Tech. Officer: MSFC/D HUBBARD
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1785 CALIFORNIA INST OF TECHNOLOGY 1766
 BIOMIMETIC SELF-ASSEMBLY OF MESOSTRUCTURES IN MIRO
 MICROGRAVITY: THE NATURE OF CAPILLARY BOND
 04/30/2001 - 04/29/2005 FY01: \$68,000 Total: \$68,000
Prin. Invest.: A PONCE
Tech. Officer: MSFC/D S HUBBARD
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 9 1013 CALIFORNIA INST OF TECHNOLOGY 1767
 GENESIS DISCOVERY MISSION PHASE B
 05/13/1998 - 05/31/2002 FY01: \$163,800 Total: \$514,510
Prin. Invest.: D S BURNETT
Tech. Officer: JSC/E K STANSBERY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAS 5 98034 CALIFORNIA INST OF TECHNOLOGY 1768
 PHASE A STUDY FOR GALE X (GALAXY EVOLUTION EXPLORER) INVE-
 TIGATION
 12/05/1997 - 09/30/2004 FY01: \$16,640,000 Total: \$54,848,000
Prin. Invest.: C MARTIN
Tech. Officer: GSFC/F SNOW
CASE Category: 11 - ASTRONOMY

NAS 5 98152 CALIFORNIA INST OF TECHNOLOGY 1769
 CONSTELLATION X-RAY MISSION
 06/22/1998 - 12/15/2001 FY01: \$47,500 Total: \$424,470
Prin. Invest.: F HARRISON
Tech. Officer: GSFC/J GRADY
CASE Category: 46 - MECHANICAL ENGR

NCC 2 5431 CALIFORNIA INST OF TECHNOLOGY 1770
 ADJOINT ERROR ANALYSIS: IMPROVING THE ACCURACY & RELIABILITY
 OF LIFT & DRAG ESTIMATES
 03/28/2001 - 03/31/2002 FY01: \$29,335 Total: \$29,335
Prin. Invest.: N A PIERRE
Tech. Officer: ARC/J J RENTHER
CASE Category: 29 - MATH/COMPUTER SCI, OTHER

NGT 5 30096 CALIFORNIA INST OF TECHNOLOGY 1771
 THE ISOTOPIC COMPOSITION OF STATOSPHERIC AND UPPER_ AS A
 TRACER OF TROPOSPHER-STRATOSPHERE EXCHANGE/M
 09/10/1997 - 08/31/2000 FY01: \$0 Total: \$22,000
Prin. Invest.: Y L YUNG
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30138 CALIFORNIA INST OF TECHNOLOGY 1772
 CRUCIAL DESERTIFICATION PROCESSES FOR MONITORING ARID LANDS
 08/27/1998 - 11/30/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: B C MURRAY, OKIN
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30393 CALIFORNIA INST OF TECHNOLOGY 1773
 VOLCANIC HAZARDS ASSESSMENT USING REMOTE SENSING, BAJA,
 CALIFORNIA,MEXICO (STUDENT: JANE DMOCH
 08/14/2001 - 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: J STOCK
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30407 CALIFORNIA INST OF TECHNOLOGY 1774
 THE SUBDUCTION ZONE EARTHQUAKE CYCLE AS CONSTRAINE D BY
 SPACE GEODESY ANDSEISMOLOGY/STUDENT: MATTHE
 08/15/2001 - 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: M SIMONS
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50200 CALIFORNIA INST OF TECHNOLOGY 1775
 LABORATORY STUDY OF REACTIONS IMPORTANT IN THE FOR MATION OF
 TROPOSPHERIC OZONEAND THE DEVELOPMENT
 06/24/1998 - 09/30/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: M OKUMURA
Tech. Officer: HQ/A NURRIDIN
CASE Category: 12 - CHEMISTRY

NGT 5 50215 CALIFORNIA INST OF TECHNOLOGY 1776
 FROM EARTH TO ORBIT: UTILIZING THE DIGITIZED PALOM AR SKY SURVEY
 IN NASA MISSIONS_ (STUDENT: ROY GAL
 07/22/1998 - 07/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: S G DJORGOVSKI
Tech. Officer: HQ/A NURRIDIN
CASE Category: 11 - ASTRONOMY

NGT 5 50231 CALIFORNIA INST OF TECHNOLOGY 1777
 CHEMICAL PROCESSES IN CIRCUMSTELLAR ACCRETION DISKS (STUDENT:
 JACQUELINE KESSLER
 05/27/1999 - 06/30/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: G BLAKE
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50249 CALIFORNIA INST OF TECHNOLOGY 1778
 OBSERVATIONS OF CMB ANISOTROPIES WITH THE ARCMINUT E
 COSMOLOGY BOLOMETRICARRAY RECEIVER (STUDENT: MA
 06/04/1999 - 06/30/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: A LANGE
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50278 CALIFORNIA INST OF TECHNOLOGY 1779
 BOLOMETRIC POLARIMETRY FOR COSMOLOGY
 06/20/2000 - 06/30/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: A LANGE
Tech. Officer: GSFC/L K SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50280 CALIFORNIA INST OF TECHNOLOGY 1780
 INVESTIGATION OF VACUUM ARC ION THRUSTER FOR SPACE PROPULSION APPLICATIONS--STUDENT: MICHA
 06/20/2000 - 06/30/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: F CULICK
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50308 CALIFORNIA INST OF TECHNOLOGY 1781
 DEVELOPMENT OF SUPERCONDUCTING CAVITY STABILIZED OSCILLATORS (SCSO) FOR FREQUENCY STANDARDS & PREC
 07/06/2000 - 09/30/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: N YEH
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50339 CALIFORNIA INST OF TECHNOLOGY 1782
 GALAXY FORMATION AND EVOLUTION: MODELS FOR CURRENT AND FUTURE OBSERVATIONS (STUDENT: MICH
 05/04/2001 - 08/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: M KAMIONKOWSKI
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 60003 CALIFORNIA INST OF TECHNOLOGY 1783
 A SUMMER RESEARCH PROGRAM OF NASA SUMMER FACULTY F
 09/23/1997 - 08/31/2001 FY01: \$0 Total: \$1,365,527
Prin. Invest.: A ALBEE
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 1 2293 CALIFORNIA POLYTECHNIC STATE U-SAN LUIS 1784
 HIGHPOWER ROCKET DEMONSTRATOR OF A REUSABLE GLIDE- BACK BOOSTER
 04/14/2000 - 09/01/2000 FY01: \$1 Total: \$3,798
Prin. Invest.: D J DETURRIS
Tech. Officer: LARC/T A TALAY
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 1 2327 CALIFORNIA POLYTECHNIC STATE U-SAN LUIS 1785
 SUBSONIC GLIDEBACK ROCKET DEMONSTRATOR FLIGHT TESTING
 09/08/2000 - 08/31/2001 FY01: \$18,000 Total: \$24,000
Prin. Invest.: D DETURRIS
Tech. Officer: LARC/T A TALAY
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 1 01099 CALIFORNIA POLYTECHNIC STATE U-SAN LUIS 1786
 CONFIGURATION STUDIES OF PERSONAL AIR VEHICLE EXPLORATION
 06/14/2001 - 01/13/2002 FY01: \$49,996 Total: \$49,996
Prin. Invest.: D HALL, NONE
Tech. Officer: LARC/M D MOORE
CASE Category: 41 - AERONAUTICAL ENGR

NAG 2 1169 CALIFORNIA POLYTECHNIC STATE U-SAN LUIS 1787
 CONDUIT SPECIFICATIONS DEVELOPMENT FOR CRUSIE FLIG HT OPERATIONS
 12/03/1997 - 10/31/1999 FY01: \$0 Total: \$70,000
Prin. Invest.: D J BIEZAD
Tech. Officer: ARC/M B TISCHLER
CASE Category: 41 - AERONAUTICAL ENGR

NAG 2 1386 CALIFORNIA POLYTECHNIC STATE U-SAN LUIS 1788
 POTENTIAL BENEFITS FROM TMA AND SMS INTEGRATION
 11/01/1999 - 06/30/2002 FY01: \$0 Total: \$118,758
Prin. Invest.: S HOCKADAY
Tech. Officer: ARC/S ATKINS, ARC/L TOBIAS
CASE Category: 41 - AERONAUTICAL ENGR

NAG 4 202 CALIFORNIA POLYTECHNIC STATE U-SAN LUIS 1789
 INTEGRATING NASA DRYDEN RESEARCH ENDEAVORS INTO THE TEACHING-LEARNING OF MATHEMATICS IN THE K-12 C
 02/22/2000 - 01/03/2002 FY01: \$13,978 Total: \$28,909
Prin. Invest.: R A WARD, NONE
Tech. Officer: DFRC/S YEE
CASE Category: 21 - MATHEMATICS

NAG 5 8674 CALIFORNIA POLYTECHNIC STATE U-SAN LUIS 1790
 ADAPTIVE SAMPLING OF PHYTOPLANKTON RESPONSES TO EPISODIC PHYSICAL FORCING IN THE NEARSHORE COASTAL
 07/08/1999 - 07/14/2002 FY01: \$84,747 Total: \$283,638
Prin. Invest.: M A MOLINE
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 2 1149 CALIFORNIA POLYTECHNIC STATE U-SAN LUIS 1791
 DEVELOPMENT OF MULTIDISCIPLINARY FLIGHT CONTROL DE SIGN PROCESSES USING CONDUIT
 12/01/1999 - 07/31/2002 FY01: \$132,343 Total: \$242,343
Prin. Invest.: D J BIEZAD
Tech. Officer: ARC/M TISCHLER
CASE Category: 41 - AERONAUTICAL ENGR

NCC 2 5392 CALIFORNIA POLYTECHNIC STATE U-SAN LUIS 1792
 INNOVATIVE VERTICAL & SHORT TAKEOFF & LANDING CONC EPTS & SUPPORTING TECHNOLOGIES
 08/16/2000 - 06/30/2002 FY01: \$25,000 Total: \$45,000
Prin. Invest.: D W HALL
Tech. Officer: ARC/J ZUK
CASE Category: 41 - AERONAUTICAL ENGR

NCC 2 5464 CALIFORNIA POLYTECHNIC STATE U-SAN LUIS 1793
 MARS AIRPLANE MISSION AND TECHNOLOGY DEVELOPMENT
 09/27/2001 - 08/31/2002 FY01: \$71,980 Total: \$71,980
Prin. Invest.: D W HALL, D J BIEZAD
Tech. Officer: ARC/L G LEMKE, ARC/A GONZALES
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 4 171 CALIFORNIA ST. POLYTECHNIC U-POMONA 1794
 ENHANCEMENT OF RESEARCH & DESIGN CAPABILITIES
 09/30/1999 - 09/30/2002 FY01: \$74,888 Total: \$195,028
Prin. Invest.: W E MORTENSEN
Tech. Officer: DFRC/K GUPTA, DFRC/L VOEKLER
CASE Category: 41 - AERONAUTICAL ENGR

NCC 7 10 CALIFORNIA ST. POLYTECHNIC U-POMONA 1795
 ESTABLISHMENT OF A NEW BUSINESS INCUBATOR
 08/06/1998 - 11/04/2001 FY01: \$0 Total: \$830,000
Prin. Invest.: V H GARNER, E L BARNES
Tech. Officer: NMO/T J LLOYD
CASE Category: 49 - ENGINEERING, OTHER

NAG 4 153 CALIFORNIA STATE UNIV - FRESNO 1796
 THERMO-MECHANICAL CHARACTERISTICS OF COMPOSITE MATERIALS
 03/26/1998 - 10/31/2001 FY01: \$0 Total: \$300,000
Prin. Invest.: S MAHANTY
Tech. Officer: DFRC/J BRADEN, DFRC/K K GUPTA
CASE Category: 41 - AERONAUTICAL ENGR

NAG 4 172 CALIFORNIA STATE UNIV - FRESNO 1797
 PARTNERSHIP PROJECT EXPLORE
 09/30/1999 - 10/31/2001 FY01: \$75,000 Total: \$184,914
Prin. Invest.: S MAHANTY, T MCCLANAHAN
Tech. Officer: DFRC/K GUPTA, DFRC/L VOELKER
CASE Category: 41 - AERONAUTICAL ENGR

NAG 5 4945 CALIFORNIA STATE UNIV - FULLERTON 1798
 METEORITE COMPACTION AGES: ANCIENT ENERGETIC PARTI DISSIPATION
 IN THE EARLY SOLAR NEBULA
 06/23/1997 - 12/31/1999 FY01: -\$33,398 Total: \$116,605
Prin. Invest.: D WOOLUM
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 9433 CALIFORNIA STATE UNIV - FULLERTON 1799
 SOLAR NEBULA THERMAL AND PHYSICAL EVOLUTION AS CON STRAINED
 BY PLANETARY, METEORITIC AND ASTRONOMIC
 04/21/2000 - 04/14/2002 FY01: \$0 Total: \$45,000
Prin. Invest.: D WOODLUM
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 10312 CALIFORNIA STATE UNIV - FULLERTON 1800
 BETA PIC-LIKE CIRCUMSTELLAR GAS DISK AROUND 2 AND -- FUSE-00
 01/26/2001 - 01/31/2002 FY01: \$20,000 Total: \$20,000
Prin. Invest.: K CHEN
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 10695 CALIFORNIA STATE UNIV - FULLERTON 1801
 SOLAR NEBULA THERMAL AND PHYSICAL EVOLUTION AS CON STRAINED
 BY PLANETARY, METEORITIC AND ASTRONOMICAL
 04/16/2001 - 04/14/2002 FY01: \$45,000 Total: \$45,000
Prin. Invest.: D WOOLUM
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 9 1009 CALIFORNIA STATE UNIV - FULLERTON 1802
 GENESIS: DETECTORS CHARACTERIZATION/SELECTION AND EDUCA-
 TIONAL OUTREACH
 05/05/1998 - 12/31/2001 FY01: \$56,000 Total: \$157,244
Prin. Invest.: D S WOOLUM
Tech. Officer: JSC/E K STANSBERY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 3 1830 CALIFORNIA STATE UNIV - LONG BEACH 1803
 MAGNETHOLOGICAL FLUIDS: RHEOLOGY AND NONEQUILBRI UM
 PATTERN FORMATION
 04/18/1996 - 05/16/2002 FY01: \$103,550 Total: \$844,550
Prin. Invest.: J LIU
Tech. Officer: GRC/K HSIEH
CASE Category: 13 - PHYSICS

NAG 5 9310 CALIFORNIA STATE UNIV - LONG BEACH 1804
 INTERNATIONAL, STATE & LOCAL WORKFORCE DEVELOPMENT &
 CAPACITY BUILDING INSUPPORT OF NASA ESE PROGRA
 04/12/2000 - 04/14/2002 FY01: \$149,989 Total: \$249,986
Prin. Invest.: C T LEE
Tech. Officer: GSFC/A J TUYAHOV
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 5 329 CALIFORNIA STATE UNIV - LONG BEACH 1805
 AUGMENTED LEARNING ENVIRONMENT FOR RENEWABLE TEACH ING
 (ALERT)
 05/07/1998 - 08/14/2002 FY01: \$0 Total: \$450,000
Prin. Invest.: E AMBOS
Tech. Officer: GSFC/B MEESON
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 1 2029 CALIFORNIA STATE UNIV - LOS ANGELES 1806
 ACTIVE ISOLATION TECHNIQUES FOR MITIGATING EARTH- QUAKE
 EFFECTS
 03/17/1998 - 03/16/2001 FY01: \$1 Total: \$300,001
Prin. Invest.: H HASEMIAN
Tech. Officer: LARC/H M ADELMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 4 127 CALIFORNIA STATE UNIV - LOS ANGELES 1807
 THE SCIENCE AMBASSADOR DISTANCE LEARNING PROJECT NEW AWARD
 05/23/1997 - 03/31/2001 FY01: \$0 Total: \$781,930
Prin. Invest.: T ADENIKA-MORROW
Tech. Officer: DFRC/E L DUKE, DFRC/E COX
CASE Category: 41 - AERONAUTICAL ENGR

NAG 4 151 CALIFORNIA STATE UNIV - LOS ANGELES 1808
 FAR STUDY OF CINTROL STRUCTURE INERACTION IN LARGE FLEXIBLE
 SPACE STRUCTURE
 03/26/1998 - 06/30/2001 FY01: \$0 Total: \$300,000
Prin. Invest.: L - HSIA
Tech. Officer: DFRC/J BRADEN, DFRC/K K GUPTA
CASE Category: 41 - AERONAUTICAL ENGR

NAG 4 173 CALIFORNIA STATE UNIV - LOS ANGELES 1809
 PATNERSHIP AN INQUIRY AERONAUTICAL SCIENCE DISTANC E LEARNING
 ED PROJECT
 09/16/1999 - 09/17/2002 FY01: \$74,999 Total: \$199,998
Prin. Invest.: T ADENIKA-MORROW
Tech. Officer: DFRC/M MCCARTY, DFRC/J LARSON
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 4 174 CALIFORNIA STATE UNIV - LOS ANGELES 1810
 PARTNERSHIP INTEGRATION OF CONFIGURATION
 09/16/1999 - 09/17/2001 FY01: \$90,104 Total: \$200,000
Prin. Invest.: C WU
Tech. Officer: DFRC/K GUPTA, DFRC/L VOELKER
CASE Category: 41 - AERONAUTICAL ENGR

NAG 4 175 CALIFORNIA STATE UNIV - LOS ANGELES 1811
 PARTNERSHIP CONTROL HYPERSONIC VEHICLES
 09/15/1999 - 09/17/2001 FY01: \$90,633 Total: \$199,980
Prin. Invest.: M MIRMIRANI
Tech. Officer: DFRC/K GUPTA, DFRC/L VOELKER
CASE Category: 41 - AERONAUTICAL ENGR

NAG 5 6757 CALIFORNIA STATE UNIV - LOS ANGELES 1812
 USE OF DECENTRALIZED CONTROL IN DESIGN OF A LARGE SEGMENTED
 SPACEREFLECTOR
 04/06/1998 - 12/31/1999 FY01: -\$14,655 Total: \$1,985,345
Prin. Invest.: H R BOUSSALIS
Tech. Officer: GSFC/J MALONE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 7401 CALIFORNIA STATE UNIV - LOS ANGELES 1813
 INTEGRATING MODELS WITH NARROW-BAND, MULTI-SCALE, REMOTELY
 SENSED DATA FOR IMPROVED ASSESSMENT OF P
 05/20/1998 - 06/30/2000 FY01: \$0 Total: \$260,338
Prin. Invest.: J A GAMON, NONE
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8889 CALIFORNIA STATE UNIV - LOS ANGELES 1814
 USE OF DECENTRALIZED CONTROL IN DESIGN OF A SEGMENTED SPACE
 01/03/2000 - 12/31/2001 FY01: \$500,000 Total: \$1,000,000
Prin. Invest.: H R BOUSSALIS
Tech. Officer: GSFC/J MALONE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 8945 CALIFORNIA STATE UNIV - LOS ANGELES 1815
 ASYMMETRIES AND VARIATIONS IN JUPITER'S MAGNETO SPHERE
 01/28/2000 - 01/14/2002 FY01: \$65,900 Total: \$128,600
Prin. Invest.: K KHURANA
Tech. Officer: GSFC/D BOGAN
CASE Category: 11 - ASTRONOMY

NAG 5 9160 CALIFORNIA STATE UNIV - LOS ANGELES 1816
 UNIV PREPARATORY PROGRAM
 03/06/2000 - 06/30/2002 FY01: \$100,000 Total: \$200,000
Prin. Invest.: M EPSTEIN
Tech. Officer: GSFC/M STOUTSENBERGER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 439 CALIFORNIA STATE UNIV - LOS ANGELES 1817
 EXCELLENCE IN SCIENCE AND MATH EDUCATION FOR HARD TO STAFF
 URBAN SCHOOLS
 03/03/2000 - 02/28/2002 FY01: \$199,940 Total: \$399,880
Prin. Invest.: T ADENIKA-MORROW
Tech. Officer: GSFC/B WHITE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 6529 CALIFORNIA STATE UNIV - MONTEREY BAY 1818
 DEVELOPMENT OF A REGIONAL-SCALE ECOSYSTEM PROCESS MODEL
 FOR EVALUATING THE IMPACTS OF DEVELOPMENT A
 12/08/1997 - 10/31/2001 FY01: \$0 Total: \$700,000
Prin. Invest.: L PIERCE
Tech. Officer: GSFC/A JANETOS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG13 99020 CALIFORNIA STATE UNIV - MONTEREY BAY 1819
 APPLICATION OF REMOTE SENSING AND ECOSYSTEM MODELING TO
 VINEYARD MANAGEMENT IN CA NAPA VALLEY
 08/13/1999 - 11/01/2001 FY01: \$177,879 Total: \$318,986
Prin. Invest.: L F JOHNSON
Tech. Officer: SSC/R MCKELLIP
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 2 1186 CALIFORNIA STATE UNIV - MONTEREY BAY 1820
 REMOTE SENSING, ECOSYSTEM MODELING, & GEOSPATIAL ANALYSIS
 FOR EARTH SYSTEMS SCIENCE & HEALTH
 06/28/2000 - 06/30/2002 FY01: \$1,049,100 Total: \$1,522,246
Prin. Invest.: S E ALEXANDER
Tech. Officer: ARC/J C COUGHLAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 4 162 CALIFORNIA STATE UNIV - NORTHRIDGE 1821
 NASA EXPLORERS
 02/24/1999 - 12/31/2001 FY01: \$75,397 Total: \$258,150
Prin. Invest.: W FURUMOTO, M LIPSCHUTZ, G MASSEY
Tech. Officer: DFRC/M MCCARTHY, DFRC/J LARSON
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 4973 CALIFORNIA STATE UNIV - NORTHRIDGE 1822
 PRECISE GROUND-BASED PHOTOMETRIC OBSERVATIONS AND SOLAR
 TOTAL AND SPECTRAL IRRADIANCE OBSERVATIONS B
 06/23/1997 - 10/31/2000 FY01: \$0 Total: \$150,003
Prin. Invest.: G A CHAPMAN
Tech. Officer: GSFC/W J WAGNER
CASE Category: 11 - ASTRONOMY

NAG 5 7191 CALIFORNIA STATE UNIV - NORTHRIDGE 1823
 ACQUISITION AND ANALYSIS OF PRECISE GROUND-BASED PHOTOMETRIC
 FULL-DISK IMAGES FOR THE UNDERSTANDING
 03/25/1998 - 07/31/2002 FY01: \$16,469 Total: \$143,599
Prin. Invest.: G A CHAPMAN
Tech. Officer: GSFC/W WAGNER
CASE Category: 11 - ASTRONOMY

NAG 5 7778 CALIFORNIA STATE UNIV - NORTHRIDGE 1824
 A PROPOSAL TO CHARACTERIZE AND UNDERSTAND THE SOURCES OF
 SOLAR TOTAL AND SPECTRAL IRRADIANCE VARIABILITY
 10/28/1998 - 01/31/2002 FY01: \$77,800 Total: \$114,487
Prin. Invest.: D A CHAPMAN
Tech. Officer: GSFC/J SHARBER
CASE Category: 11 - ASTRONOMY

NAG 5 7878 CALIFORNIA STATE UNIV - NORTHRIDGE 1825
 A PROPOSAL TO COMPARE GROUND-BASED PHOTOMETRIC IMAGES
 WITH IRRADIANCE DATA FROM SOHO
 12/01/1998 - 12/14/2001 FY01: \$11,970 Total: \$35,810
Prin. Invest.: G A CHAPMAN
Tech. Officer: GSFC/J GURMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 9726 CALIFORNIA STATE UNIV - NORTHRIDGE 1826
 MICROSTRIP ANTENNA DEVELOPMENT FOR SPACECRAFT APPLICATIONS
 07/10/2000 - 08/31/2001 FY01: \$0 Total: \$100,000
Prin. Invest.: S RENGARAJAN
Tech. Officer: GSFC/C PERSON
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10880 CALIFORNIA STATE UNIV - NORTHRIDGE 1827
 STUDY OF THE POWER INPUT TO THE SOLAR CORONA FROM INTERMITTENT
 MAGNETIC FOOTPRINT MOTIONS
 05/14/2001 - 05/31/2002 FY01: \$62,896 Total: \$62,896
Prin. Invest.: A CADAVID
Tech. Officer: GSFC/J GURMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NCC 2 1021 CALIFORNIA STATE UNIV - NORTHRIDGE 1828
 EXAMINING THE EFFECTS OF HIGH-LEVEL INTERRUPTIONS ON PART 121
 AIRCREW PERFORMANCE
 02/25/1998 - 01/31/2000 FY01: \$0 Total: \$78,707
Prin. Invest.: B TABACHIVIDE, D DAMIS
Tech. Officer: ARC/R K DISMUKES
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 381 CALIFORNIA STATE UNIV - NORTHRIDGE 1829
 SPECTRO-POLARIMETRY OF PLANETARY OBJECTS
 02/19/1999 - 08/31/2000 FY01: -\$3 Total: \$13,787
Prin. Invest.: M J PENN
Tech. Officer: GSFC/J E ALLEN
CASE Category: 11 - ASTRONOMY

NCC 5 489 CALIFORNIA STATE UNIV - NORTHRIDGE 1830
 ANALYZING DATA SETS
 04/06/2000 - 02/28/2002 FY01: \$298,512 Total: \$596,534
Prin. Invest.: C SHUBIN
Tech. Officer: GSFC/M MATTHEWS
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 513 CALIFORNIA STATE UNIV - NORTHRIDGE 1831
 FAILURE ANALYSIS PREVENTION, AND RELIABILITY MODEL ING FOR SUB-
 MICRON ELECTRONICS TECHNOLOGY, A RESE
 08/29/2000 - 08/31/2002 FY01: \$898,380 Total: \$998,380
Prin. Invest.: B BAVARIAN
Tech. Officer: GSFC/C PERSON
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1220 CALIFORNIA STATE UNIV - SACRAMENTO 1832
 JOVE
 11/30/1995 - 08/31/2000 FY01: -\$4,842 Total: \$84,758
Prin. Invest.: B HAUSBACK, Z NDLELA
Tech. Officer: MSFC/DSIX
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 4 200 CALIFORNIA STATE UNIV-BAKERSFIELD 1833
 METRIC ANALYSIS AND EVALUATION FOR NASA/DRYDEN FLI GHT
 RESEARCH
 01/31/2000 - 02/06/2003 FY01: \$18,598 Total: \$73,041
Prin. Invest.: K L NYBERG
Tech. Officer: DFRC/K S SHY
CASE Category: 49 - ENGINEERING, OTHER

NAG 4 161 CALIFORNIA STATE UNIV, DOMINQUEZ HILLS 1834
 STEP PACE SCIENCE TECH PROJECT
 02/17/1999 - 12/31/2001 FY01: \$99,886 Total: \$299,869
Prin. Invest.: E KRINSKY
Tech. Officer: DFRC/M MC CARTHY, DFRC/J LARSON
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG13 99010 CALIFORNIA STATE UNIV, DOMINQUEZ HILLS 1835
 SOUTHERN CALIFORNIA CENTER FOR MANAGING FIRE HAZ- ARDS AT THE
 URBAN WILDLANDS INTERFACE
 03/03/1999 - 03/02/2002 FY01: \$500,000 Total: \$1,587,523
Prin. Invest.: C LEE
Tech. Officer: JSC/C HILL
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 8017 CLAREMONT MCKENNA COLLEGE 1836
 THE COSMIC RAY PATH LENGTH DISTRIBUTION EXPECTED F ROM THE
 LOCAL SPACE AND TIME DEPENDENT SUPERNOV
 01/06/1999 - 12/31/2001 FY01: \$38,862 Total: \$113,112
Prin. Invest.: D C HIGDON
Tech. Officer: GSFC/M C GUHATHAKURTA
CASE Category: 11 - ASTRONOMY

NAG 5 4883 COLLEGE OF SAN MATEO 1837
 DEVELOP REMOTE SENSING EDUCATIONAL MATERIALS TO BE ITY
 COLLEGES ACROSS THE US.
 08/01/1997 - 12/31/1999 FY01: -\$15,952 Total: \$208,048
Prin. Invest.: K D KENNEDY
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 2 1001 FOOTHILL-DE ANZA COM COLL SYSTEM OFF 1838
 SCIENTIFIC-TECHNICAL & BUSINESS CAREERS TRAINING G RANT
 07/07/1993 - 08/31/2001 FY01: \$640,028 Total: \$9,788,648
Prin. Invest.: M CONWAY
Tech. Officer: ARC/M E LOPEZ, ARC/J M MCCULLOUGH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 2 52280 FOOTHILL-DE ANZA COM COLL SYSTEM OFF 1839
 EXPERIMENTAL INTERNSHIPS SUPPORTING ASTROBIOLOGY A EROSPACE
 TECHNOLOGY & INFORMATION TECHNOLOGY
 07/03/2001 - 06/30/2002 FY01: \$836,324 Total: \$836,324
Prin. Invest.: M P CONRAD, NONE
Tech. Officer: ARC/G JAMES
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9700 GLENDALE COMMUNITY COLLEGE 1840
 CIMMARUSTI SCIENCE CENTER
 07/18/2000 - 08/14/2004 FY01: \$0 Total: \$3,831,000
Prin. Invest.: L SEROT
Tech. Officer: GSFC/H KASS
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 9 79 LOMA LINDA UNIV 1841
 PROTON SPACE RESEARCH
 01/13/1999 - 09/30/2000 FY01: \$0 Total: \$12,000,000
Prin. Invest.: G A NELSON
Tech. Officer: JSC/F A CUCINOTTA
CASE Category: 13 - PHYSICS

NCC 9 118 LOMA LINDA UNIV 1842
 COOPERATIVE RESEARCH IN PROTON SPACE RADIATION
 02/02/2001 - 09/30/2001 FY01: \$3,661,000 Total: \$3,661,000
Prin. Invest.: G NELSON, J ARCHAMBEAU, J SLATER
Tech. Officer: JSC/F CUCINOTTA
CASE Category: 13 - PHYSICS

NAG 5 7050 LOYOLA MARYMOUNT UNIV 1843
 TRACKING TRANSIENT EVENTS FROM THE SOLAR WIND TO T HE MAGNE-
 TOSPHERE
 03/23/1998 - 03/31/2001 FY01: \$19,989 Total: \$62,929
Prin. Invest.: J SANNY
Tech. Officer: GSFC/D EVANS
CASE Category: 11 - ASTRONOMY

NAG 5 11197 PASADENA CITY COLLEGE 1844
 SMARTT: SCIENTISTS MENTORING ASTRONOMY RESEARCH T EAMS OF
 TOMORROW: A PROPOSAL FOR DOING RESEARCH
 09/13/2001 - 12/31/2003 FY01: \$60,000 Total: \$60,000
Prin. Invest.: J SEPIKAS
Tech. Officer: GSFC/P J SAKIMOTO
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9618 POMONA COLLEGE 1845
 THERMAL AND MECHANICAL ANALYSIS OF SMALL, SHALLOW MAGMA
 RESERVOIRS ON MARS
 05/18/2000 - 05/14/2002 FY01: \$0 Total: \$38,400
Prin. Invest.: E GROSFILS
Tech. Officer: GSFC/J BOYCE
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 10157 POMONA COLLEGE 1846
 VOLCANIC & TECTONIC HISTORY OF THE NEMESIS TESSERA REGION ON
 VENUS
 12/18/2000 - 12/31/2001 FY01: \$24,800 Total: \$24,800
Prin. Invest.: E GROSFILS
Tech. Officer: GSFC/D SENSKE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10498 POMONA COLLEGE 1847
 THERMOMECHANICAL ANALYSIS OF SMALL, SHALLOW MAGMA
 RESERVOIRS ON MARS: IMPLICATONS FOR RESERVOIR FAIL
 03/09/2001 - 03/14/2003 FY01: \$30,000 Total: \$30,000
Prin. Invest.: E GROSFILS
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8560 SAN DIEGO STATE UNIV 1848
 ENVIRONMENTAL CHANGE AND NATURAL HAZARD ASSESSMENT IN
 WESTERN TURKMENIS-TAN USING INTERFEROMETRIC SY
 07/14/1999 - 06/30/2002 FY01: \$41,304 Total: \$127,864
Prin. Invest.: R MELLORS
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9301 SAN DIEGO STATE UNIV 1849
 OPERATIONAL MONITORING OF ALTERATION IN REGIONAL FOREST
 COVER USING MULTITEMPORAL REMOTE SENSING
 03/20/2000 - 04/30/2002 FY01: \$92,873 Total: \$158,396
Prin. Invest.: J FRANKLIN
Prin. Invest.: NONE
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10376 SAN DIEGO STATE UNIV 1850
 PROBING SHOCKS & WINDS IN THE PECULIAR BINARY STAR VSAGITTAE
 (FUSE 00)
 02/08/2001 - 02/14/2002 FY01: \$44,100 Total: \$44,100
Prin. Invest.: J WOOD
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 11141 SAN DIEGO STATE UNIV 1851
 FIRE, LAND COVER AND CLIMATE CHANGE: IMPACTS ON RIVER FLOWS IN
 SEMI-ARID SHRUBLAND WATERSHEDS
 07/26/2001 - 07/31/2002 FY01: \$76,249 Total: \$76,249
Prin. Invest.: A HOPE
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG13 99017 SAN DIEGO STATE UNIV 1852
 REGIONAL CHANGE MONITORING OF HABITAT RESERVE SYSTEMS WITH
 VERY HIGH RESOLUTION REMOTELY SENSED
 07/19/1999 - 07/18/2002 FY01: \$215,000 Total: \$430,000
Prin. Invest.: D STOW
Tech. Officer: JSC/R MCKELLIP
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAS 5 00199 SAN DIEGO STATE UNIV 1853
 R & D TO SUPPORT GSFC'S SIMBIOS PROJECT
 01/26/2001 - 11/30/2001 FY01: \$112,600 Total: \$112,600
Prin. Invest.: J L MUELLER
Tech. Officer: GSFC/C R CRANE
CASE Category: 33 - OCEANOGRAPHY

NAS 5 00202 SAN DIEGO STATE UNIV 1854
 R & D TO SUPPORT GSFC'S SIMBIOS PROJECT
 02/07/2001 - 11/30/2001 FY01: \$171,476 Total: \$171,476
Prin. Invest.: C C TREES
Tech. Officer: GSFC/C R MCCLAIN
CASE Category: 33 - OCEANOGRAPHY

NAS 5 97126 SAN DIEGO STATE UNIV 1855
 SIMBIOS NORMALIZED WATER-LEAVING RADIANCE CAL/VAL
 08/18/1997 - 11/30/2000 FY01: \$0 Total: \$779,480
Prin. Invest.: J L MUELLER
Tech. Officer: GSFC/C R MCCLAIN
CASE Category: 33 - OCEANOGRAPHY

NCC 3 842 SAN DIEGO STATE UNIV 1856
 DYNAMICS OF FLAME SPREAD IN MRCROGRAVITY ENVIRONME NT
 01/05/2001 - 11/30/2004 FY01: \$115,000 Total: \$115,000
Prin. Invest.: S BHATTACHARJEE
Tech. Officer: GRC/S L OLSON
CASE Category: 49 - ENGINEERING, OTHER

NCC13 00002 SAN DIEGO STATE UNIV 1857
 AFFILIATED RESEARCH CENTE (ARC) PROGRAM AT SAN DIEGO STATE
 UNIV
 02/11/2000 - 02/10/2005 FY01: \$224,999 Total: \$374,999
Prin. Invest.: D STOWE
Tech. Officer: SSC/A PEEK
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30335 SAN DIEGO STATE UNIV 1858
 LONG-TERM IMPACTS OF FIRE ON STREAMFLOW IN CALIFOR NIA
 MEDITERRANEAN-TYPE SHRUB LANDS: AN INTEGRATED
 08/21/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: A S HOPE
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30367 **SAN DIEGO STATE UNIV** **1859**
 ASSESSING THE AFFECTS OF VARIATIONS IN SOIL MOISTURE ON THE SURFACE ENERGY BALANCE AND CARBON/R
 08/13/2001 – 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: A HOPE
Tech. Officer: GSFC/M WEI
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 2 1285 **SAN FRANCISCO STATE UNIV** **1860**
 FREE FLIGHT INFORMATION & AUTOMATION ISSUES
 02/08/1999 – 02/14/2002 FY01: \$104,081 Total: \$266,337
Prin. Invest.: K L MOSIER, E A LYALL
Tech. Officer: ARC/J M ORASANU
CASE Category: 69 – PSYCHOLOGY, OTHER

NAG 5 7511 **SAN FRANCISCO STATE UNIV** **1861**
 THE SEASONAL AND INTERANNUAL VARIABILITY OF PHYTOPLANKTON IN THE BERING SEA AS INFLUENCED BY SEA ICE
 07/24/1998 – 07/31/2002 FY01: \$58,250 Total: \$326,863
Prin. Invest.: D H ROBINSON
Tech. Officer: GSFC/J W MARRA
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 8013 **SAN FRANCISCO STATE UNIV** **1862**
 A COUPLED ICE-OCEAN MODEL OF MESOSCALE PHYSICAL/BIOLOGICAL INTERACTIONS IN THE SOUTHERN OCEAN
 01/20/1999 – 01/31/2002 FY01: \$0 Total: \$115,840
Prin. Invest.: D H ROBINSON
Tech. Officer: GSFC/J W CAMPBELL
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAS 9 19410 **SAN FRANCISCO STATE UNIV** **1863**
 ANALYSIS OF VOLATILE ORGANIC COMPOUNDS ON MIR STATION
 10/27/1995 – 01/31/2000 FY01: \$0 Total: \$396,735
Prin. Invest.: D PALMER
Tech. Officer: JSC/A PLAZA
CASE Category: 59 – LIFE SCIENCE, OTHER

NCC 2 1128 **SAN FRANCISCO STATE UNIV** **1864**
 CONSTRUCTION OF A LONG-TERM CLIMATOLOGY OF ANTARCTIC & ARCTIC POLAR STRATOSPHERIC CLOUDS BY AN AUTOM
 07/01/1999 – 12/31/2001 FY01: \$0 Total: \$105,000
Prin. Invest.: K L PAGAN
Tech. Officer: ARC/R S HIPSKIND
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 1277 **SAN FRANCISCO STATE UNIV** **1865**
 EFFECTS OF CENTRIFUGATION ON THE IMMUNE RESPONSE OF MACROPHAGES & DIFFERENTIATION INTO OSTEOCLASTS
 08/15/2001 – 07/31/2002 FY01: \$10,427 Total: \$10,427
Prin. Invest.: S WEINSTEIN
Tech. Officer: ARC/N D SEARBY
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NCC 2 1278 **SAN FRANCISCO STATE UNIV** **1866**
 MODELING THE ONSET EXTENT & DURATION OF DEHYDRATION IN THE WINTER POLAR VORTEX, USING IMPACT, AVHRR
 08/15/2001 – 07/31/2002 FY01: \$80,000 Total: \$80,000
Prin. Invest.: P FOSCHI
Tech. Officer: ARC/S HIPSKIND, ARC/A TABAZADEH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 5301 **SAN FRANCISCO STATE UNIV** **1867**
 AERONAUTICAL TELECOMMUNICATION NETWORK MODELING & SIMULATION
 12/04/1998 – 11/30/2001 FY01: \$0 Total: \$59,973
Prin. Invest.: H SHAHNASSER
Tech. Officer: ARC/P R GRAMS, ARC/J WANG
CASE Category: 22 – COMPUTER SCIENCE

NCC 2 5324 **SAN FRANCISCO STATE UNIV** **1868**
 THE CHEMISTRY, MINERALOGY & SPECTROSCOPY OF THE BIOGENIC ELEMENTS IN MARS SOIL ANALOGS
 05/17/1999 – 11/30/1999 FY01: \$0 Total: \$26,120
Prin. Invest.: J B ORENBERG
Tech. Officer: ARC/T L ROUSH
CASE Category: 12 – CHEMISTRY

NAG 1 2205 **SAN JOSE STATE UNIV** **1869**
 CHARACTERIZING STRATOSPHERIC & TROPOSPHERIC AEROSOL: THEORETICAL STUDIES & ANALYSIS OF SATELLITE DATA (NRA)
 06/15/1999 – 05/31/2002 FY01: \$30,000 Total: \$84,103
Prin. Invest.: P HAMIL
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 1421 **SAN JOSE STATE UNIV** **1870**
 WEB-BASED INTEGRATION OF DATA BASES & APPLICATIONS FOR NATIONAL AIRSPACE SYSTEM ANALYSIS
 07/14/2000 – 07/14/2002 FY01: \$0 Total: \$40,000
Prin. Invest.: G POUR, K CORKER
Tech. Officer: ARC/D KOZARSKY
CASE Category: 22 – COMPUTER SCIENCE

NAG 2 1435 **SAN JOSE STATE UNIV** **1871**
 SHARED CONTROL AMONG AIR TRAFFIC CONTROL, FLIGHT DECK, & DECISION AIDING SYSTEMS: PERFORMANCE PARAM
 09/13/2000 – 08/31/2001 FY01: \$0 Total: \$150,943
Prin. Invest.: K CORKER
Tech. Officer: ARC/I C STATLER
CASE Category: 41 – AERONAUTICAL ENGR

NAG 2 1454 **SAN JOSE STATE UNIV** **1872**
 PROPOSAL STATEMENT OF WORK FOR THE MODELING & SYSTEM SAFETY & STABILITY SUB-ELEMENT-ELEMENT SYSTEM
 02/01/2001 – 01/31/2002 FY01: \$95,028 Total: \$95,028
Prin. Invest.: K CORKER
Tech. Officer: ARC/I STATLER, ARC/M M CONNORS
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 4372 **SAN JOSE STATE UNIV** **1873**
 RADIO OCCULTATION INVESTIGATION OF THE RINGS OF SATURN
 04/25/1997 – 02/28/2002 FY01: \$0 Total: \$142,400
Prin. Invest.: D A MAROUF
Tech. Officer: GSFC/J GRANT
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 9500 **SAN JOSE STATE UNIV** **1874**
 NUMERICAL SIMULATION OF MARS' CONVECTIVE BOUNDARY LAYER AND DUST DEVILS
 05/09/2000 – 05/31/2002 FY01: \$55,000 Total: \$114,200
Prin. Invest.: S C RAFKIN
Tech. Officer: GSFC/J BOYCE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 9751	SAN JOSE STATE UNIV	1875		NCC 2 1045	SAN JOSE STATE UNIV	1883	
MESOSCALE & LES MODELING OF THE MARTIAN ATMOSPHERE WIND STREAKS AND DUST DEVILS				AIRBORNE MEASUREMENT RESEARCH			
06/27/2000 – 06/30/2002	FY01: \$55,000		Total: \$102,100	06/30/1998 – 06/30/2002	FY01: \$0		Total: \$141,145
<i>Prin. Invest.:</i> S RAFKIN				<i>Prin. Invest.:</i> J GOODMAN			
<i>Tech. Officer:</i> GSFC/D BOGAN				<i>Tech. Officer:</i> ARC/PBUI			
<i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE				<i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE			
NAG 5 9766	SAN JOSE STATE UNIV	1876		NCC 2 1059	SAN JOSE STATE UNIV	1884	
LARGE-SCALE WAVE ACTIVITY IN A MARS GENERAL CIRCULATION MODEL: CHARACTERIZATION & COMPARISON WITH				RESEARCH ON PLANETARY ATMOSPHERES & ATMOSPHERE PROFILES			
06/29/2000 – 06/30/2002	FY01: \$25,000		Total: \$62,900	07/27/1998 – 09/14/2000	FY01: \$0		Total: \$224,021
<i>Prin. Invest.:</i> A BRIDGER				<i>Prin. Invest.:</i> A SEIFF, J GOODMAN			
<i>Tech. Officer:</i> GSFC/J BOYCE				<i>Tech. Officer:</i> ARC/R E YOUNG			
<i>CASE Category:</i> 11 – ASTRONOMY				<i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE			
NAG 5 11184	SAN JOSE STATE UNIV	1877		NCC 2 1060	SAN JOSE STATE UNIV	1885	
CLIMATOLOGY AND NUMERICAL SIMULATION OF CONDENSATE CLOUDS DETECTED BY MGS				SOLAR WIND STUDIES & AI TECHNOLOGIES			
09/05/2001 – 09/14/2004	FY01: \$45,077		Total: \$45,077	08/11/1998 – 10/31/2001	FY01: \$130,584		Total: \$370,550
<i>Prin. Invest.:</i> S RAFKIN				<i>Prin. Invest.:</i> P J HAMILL			
<i>Tech. Officer:</i> GSFC/J M BOYCE				<i>Tech. Officer:</i> ARC/A BARNES			
<i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE				<i>CASE Category:</i> 19 – PHYSICAL SCIENCE, OTHER			
NAG 5 11185	SAN JOSE STATE UNIV	1878		NCC 2 1071	SAN JOSE STATE UNIV	1886	
AVP GRADUATE STUDIES AND RESEARCH				ASSESSMENT OF DISTRIBUTED OBJECT MIDDLEWARE			
08/21/2001 – 08/31/2003	FY01: \$34,300		Total: \$34,300	11/16/1998 – 04/30/2001	FY01: \$0		Total: \$174,997
<i>Prin. Invest.:</i> A BRIDGER				<i>Prin. Invest.:</i> R FATOOHI			
<i>Tech. Officer:</i> GSFC/J BOYCE				<i>Tech. Officer:</i> ARC/T A LASINSKI			
<i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER				<i>CASE Category:</i> 22 – COMPUTER SCIENCE			
NAG 8 1735	SAN JOSE STATE UNIV	1879		NCC 2 1091	SAN JOSE STATE UNIV	1887	
URBAN EFFECT ON THUNDERSTORMS				REGIONAL & GLOBAL MODELING OF ATMOSPHERIC TRACE SPECIES			
08/04/2000 – 12/31/2001	FY01: \$0		Total: \$50,000	03/01/1999 – 09/30/2001	FY01: \$0		Total: \$140,236
<i>Prin. Invest.:</i> R BORNSTEIN				<i>Prin. Invest.:</i> P A HAMILL			
<i>Tech. Officer:</i> MSFC/D QUATTROCHI				<i>Tech. Officer:</i> ARC/R B CHATFIELD, ARC/E P CONDON			
<i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE				<i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE			
NCC 2 798	SAN JOSE STATE UNIV	1880		NCC 2 1095	SAN JOSE STATE UNIV	1888	
FLIGHT HUMAN FACTORS				HUMAN FACTORS RESEARCH, TECHNOLOGY & SAFETY			
05/12/1993 – 05/31/2000	FY01: -\$1		Total: \$10,321,667	03/11/1999 – 01/31/2002	FY01: \$2,759,106		Total: \$6,678,686
<i>Prin. Invest.:</i> K P JORDAN, D				<i>Prin. Invest.:</i> K P JORDAN			
<i>Tech. Officer:</i> ARC/R K DISMUKES				<i>Tech. Officer:</i> ARC/R K DISMUKES, ARC/C H NULL			
<i>CASE Category:</i> 69 – PSYCHOLOGY, OTHER				<i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER			
NCC 2 984	SAN JOSE STATE UNIV	1881		NCC 2 1096	SAN JOSE STATE UNIV	1889	
DYNAMICS OF RINGS & SMALL BODIES				EFFECTS OF CHRONIC EXPOSURE TO HYPERGRAVITY ON DIFFERENT STRAINS OF YOUNG & MATURE RATS			
04/01/1997 – 04/30/2001	FY01: \$0		Total: \$220,335	03/11/1999 – 01/31/2002	FY01: \$0		Total: \$169,868
<i>Prin. Invest.:</i> P J HAMILL				<i>Prin. Invest.:</i> R A FOX			
<i>Tech. Officer:</i> ARC/K ZAHALE				<i>Tech. Officer:</i> ARC/N G DAUNTON			
<i>CASE Category:</i> 11 – ASTRONOMY				<i>CASE Category:</i> 51 – BIOLOGY (EXCLUDING ENVIR)			
NCC 2 1015	SAN JOSE STATE UNIV	1882		NCC 2 1097	SAN JOSE STATE UNIV	1890	
INTEGRATING LEGACY APPLICATIONS WITHIN A MIDDLEWARE ENVIRONMENT				FLIGHT MANAGEMENT & AIR TRAFFIC MODELING			
02/01/1998 – 07/31/2001	FY01: \$20,000		Total: \$189,814	03/19/1999 – 03/14/2002	FY01: \$548,306		Total: \$1,843,773
<i>Prin. Invest.:</i> R FATOOHI, D HARKEY, NONE				<i>Prin. Invest.:</i> K P JORDAN			
<i>Tech. Officer:</i> ARC/M E LIVINGSTON, ARC/D KAWAK				<i>Tech. Officer:</i> ARC/M B TISCHLER, ARC/B D MCNALLY			
<i>CASE Category:</i> 22 – COMPUTER SCIENCE				<i>CASE Category:</i> 41 – AERONAUTICAL ENGR			

<p>NCC 2 1106 SAN JOSE STATE UNIV 1891 EXPERIMENTAL STUDIES OF THE DISTRIBUTION OF & INTE RACTION BETWEEN REACTIVE TRACE CHEMICALS WITH DYN 04/12/1999 – 03/31/2002 FY01: \$176,590 Total: \$655,961 <i>Prin. Invest.:</i> J GOODMAN <i>Tech. Officer:</i> ARC/P BUI, ARC/E P CONDON <i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE</p>	<p>NCC 2 5311 SAN JOSE STATE UNIV 1899 EXTOMYCORRHIZAE ECOLOGY IN YELLOWSTONE PARK 03/17/1999 – 01/31/2002 FY01: \$0 Total: \$78,220 <i>Prin. Invest.:</i> C A BRINEGAR <i>Tech. Officer:</i> ARC/K W CULLINGS, ARC/M L FONDA <i>CASE Category:</i> 51 – BIOLOGY (EXCLUDING ENVIR)</p>
<p>NCC 2 1132 SAN JOSE STATE UNIV 1892 THE INFLURENCE OF THE ATMOSPHERE ON POLARIZED BI-D IRECTIONAL REFLECTANCE DATA OF BOREALWETLANDS 08/17/1999 – 12/31/2001 FY01: \$0 Total: \$31,000 <i>Prin. Invest.:</i> P A HAMILL, U BOTTGER <i>Tech. Officer:</i> ARC/V VANDERBILT <i>CASE Category:</i> 39 – ENVIRONMENTAL SCI, OTHER</p>	<p>NCC 2 5326 SAN JOSE STATE UNIV 1900 ASSIMILATION OF MGS DATA INTO A COUPLED GCM-MESOSC ALE MODEL OF THE MARTIAN ATMOSPHERE 06/01/1999 – 02/28/2001 FY01: \$0 Total: \$26,209 <i>Prin. Invest.:</i> S S RAFKIN <i>Tech. Officer:</i> ARC/R M HABERLE <i>CASE Category:</i> 11 – ASTRONOMY</p>
<p>NCC 2 1155 SAN JOSE STATE UNIV 1893 FLIGHT HUMAN FACTORS 02/02/2000 – 01/31/2002 FY01: \$1,662,924 Total: \$3,034,917 <i>Prin. Invest.:</i> K JORDON <i>Tech. Officer:</i> ARC/RJ DISMUKES <i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER</p>	<p>NCC 2 5330 SAN JOSE STATE UNIV 1901 INVESTIGATION OF MARS' ATMOSPHERIC CONDITIONS IN C ONNECTION WITH AEROBRAKING & AEROCAPTURE ACTIVITI 07/08/1999 – 06/30/2002 FY01: \$1,984 Total: \$41,002 <i>Prin. Invest.:</i> A C BRIDGER <i>Tech. Officer:</i> ARC/R M HABERLE <i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE</p>
<p>NCC 2 1168 SAN JOSE STATE UNIV 1894 PLANETARY ATMOSPHERIC STRUCTURE FROM SPACECRAFT DATA 03/29/2000 – 12/31/2001 FY01: \$23,000 Total: \$113,429 <i>Prin. Invest.:</i> A BRIDGER <i>Tech. Officer:</i> ARC/R E YOUNG <i>CASE Category:</i> 11 – ASTRONOMY</p>	<p>NCC 2 5336 SAN JOSE STATE UNIV 1902 AN INVESTIGATION OF CYCLO-FRONTO-CENESIS MARS' ATM OSPHERE 07/20/1999 – 07/14/2001 FY01: \$48,800 Total: \$169,405 <i>Prin. Invest.:</i> J L HOLLINGSWORT <i>Tech. Officer:</i> ARC/R M HABERLE <i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE</p>
<p>NCC 2 1248 SAN JOSE STATE UNIV 1895 RINGS NODE DATA ARCHIVE MANAGEMENT 03/27/2001 – 03/31/2002 FY01: \$96,360 Total: \$96,360 <i>Prin. Invest.:</i> P J HAMILL <i>Tech. Officer:</i> ARC/J N CUZZI <i>CASE Category:</i> 11 – ASTRONOMY</p>	<p>NCC 2 5338 SAN JOSE STATE UNIV 1903 FAR INFARED EMISSION FROM GALACTIC & EXTRAGALACTIC INTERSTELLAR GAS 07/23/1999 – 07/31/2001 FY01: \$1,400 Total: \$48,434 <i>Prin. Invest.:</i> M J KAUFMAN, NONE <i>Tech. Officer:</i> ARC/D J HOLLEN <i>CASE Category:</i> 11 – ASTRONOMY</p>
<p>NCC 2 1284 SAN JOSE STATE UNIV 1896 A PROPOSAL TO SUPPORT FUTURE FLIGHT RESEARCH AT NA SA AMES RESEARCH CENTER 09/17/2001 – 11/30/2001 FY01: \$16,098 Total: \$16,098 <i>Prin. Invest.:</i> M S PATANKAR <i>Tech. Officer:</i> ARC/N S DORGHI, ARC/B SULLIVAN <i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER</p>	<p>NCC 2 5344 SAN JOSE STATE UNIV 1904 ASTROBIOLOGY RAPID RATES OF CHANGE 08/12/1999 – 07/31/2002 FY01: \$10,000 Total: \$30,000 <i>Prin. Invest.:</i> E P METZGER <i>Tech. Officer:</i> ARC/H L D'ANTONI <i>CASE Category:</i> 59 – LIFE SCIENCE, OTHER</p>
<p>NCC 2 1285 SAN JOSE STATE UNIV 1897 ARTIFICIAL INTELLIGENCE STUDIES OF SPACE SCIENCE D ATA 09/27/2001 – 09/30/2002 FY01: \$52,330 Total: \$52,330 <i>Prin. Invest.:</i> P A HAMILL <i>Tech. Officer:</i> ARC/T L ROUSH, ARC/J SCARGLE <i>CASE Category:</i> 11 – ASTRONOMY</p>	<p>NCC 2 5347 SAN JOSE STATE UNIV 1905 VOLATILE OXYGENATED HYDROCARBONS – ANALYTICAL SYST EM DEVELOPMENT & TROPOSPHERIC ATMOSPHERIC CHEMIST 09/01/1999 – 01/31/2002 FY01: \$0 Total: \$30,000 <i>Prin. Invest.:</i> P A HAMMILL <i>Tech. Officer:</i> ARC/H B SINGH, ARC/E P CONDON <i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE</p>
<p>NCC 2 1286 SAN JOSE STATE UNIV 1898 RESEARCH COLLABORATIVE WITH COMPUTATIONAL SCIENCES DIVISION (CSD) 09/28/2001 – 09/30/2002 FY01: \$93,000 Total: \$93,000 <i>Prin. Invest.:</i> J MURPHY <i>Tech. Officer:</i> ARC/N MUSCETTOLA, ARC/D CLANCY <i>CASE Category:</i> 49 – ENGINEERING, OTHER</p>	<p>NCC 2 5353 SAN JOSE STATE UNIV 1906 CLOUD TRANSPORT OF TROPICAL GASES & AEROSOLS 09/21/1999 – 05/31/2001 FY01: \$0 Total: \$57,905 <i>Prin. Invest.:</i> S C RAFKIN <i>Tech. Officer:</i> ARC/R B CHATFILED <i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE</p>

NCC 2 5402 **SAN JOSE STATE UNIV** **1907**
 IDENTIFICATION & CHARACTERIZATION OF NON-INVENTORIED TERRESTRIAL IMPACT CRATERS
 10/05/2000 – 09/30/2001 FY01: \$10,000 Total: \$10,000
Prin. Invest.: P MESSINA
Tech. Officer: ARC/H L D'ANTONI, ARC/E P CONDON
CASE Category: 32 – GEOLOGICAL SCIENCE

NCC 2 5435 **SAN JOSE STATE UNIV** **1908**
 AVP GRADUATE STUDIES & RESEARCH
 05/15/2001 – 04/30/2002 FY01: \$8,293 Total: \$8,293
Prin. Invest.: P HAMILL
Tech. Officer: ARC/K ZAHNLE
CASE Category: 11 – ASTRONOMY

NCC 2 5450 **SAN JOSE STATE UNIV** **1909**
 ANALYSIS OF SATELLITE DATA AND PREPARATION OF REPORTS ON A STRATOSPHERIC AEROSOL CLIMATOLOGY
 07/30/2001 – 08/14/2002 FY01: \$6,765 Total: \$6,765
Prin. Invest.: P A HAMILL
Tech. Officer: ARC/P B RUSSELL
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 5451 **SAN JOSE STATE UNIV** **1910**
 EXTREME ATMOSPHERIC ENVIRONMENTS AND HABITABLE CLIMATES
 07/30/2001 – 07/31/2002 FY01: \$46,000 Total: \$46,000
Prin. Invest.: J L HOLLINGSWORTH
Tech. Officer: ARC/R E YOUNG
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 5452 **SAN JOSE STATE UNIV** **1911**
 ANALYSIS OF THE INTERACTION OF HALOGENATED AND ORGANIC GASES WITH ATMOSPHERIC PARTICULATES
 08/03/2001 – 07/31/2002 FY01: \$10,175 Total: \$10,175
Prin. Invest.: P J HAMILL
Tech. Officer: ARC/L T IRACI, ARC/A TABAZADEH
CASE Category: 12 – CHEMISTRY

NCC 2 5460 **SAN JOSE STATE UNIV** **1912**
 IONIZED, NEUTRAL & MOLECULAR GAS DIAGNOSTICS IN GALAXIES: MODELS FOR SIRT
 09/17/2001 – 08/31/2002 FY01: \$19,666 Total: \$19,666
Prin. Invest.: M J KAUFMAN
Tech. Officer: ARC/D J HOLLENBACH, ARC/R E YOUNG
CASE Category: 11 – ASTRONOMY

NCC 2 5465 **SAN JOSE STATE UNIV** **1913**
 COMPOSITION & DYNAMICS OF SATURN'S RINGS
 09/26/2001 – 04/14/2002 FY01: \$10,000 Total: \$10,000
Prin. Invest.: P A HAMILL
Tech. Officer: ARC/J N CUZZI, ARC/J J LISSAUER
CASE Category: 11 – ASTRONOMY

NCC 2 6042 **SAN JOSE STATE UNIV** **1914**
 STELLAR 2000
 03/03/2000 – 04/30/2001 FY01: \$0 Total: \$195,500
Prin. Invest.: M M AVERNER
Tech. Officer: ARC/R D MACELROY
CASE Category: 59 – LIFE SCIENCE, OTHER

NGT 2 52262 **SAN JOSE STATE UNIV** **1915**
 SUMMER FACULTY RESEARCH FELLOWSHIP PROGRAM
 03/31/2000 – 04/30/2002 FY01: \$369,417 Total: \$774,968
Prin. Invest.: B STONE
Tech. Officer: ARC/M MOORE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 9736 **SANTA CLARA UNIV** **1916**
 DISTRIBUTED SPACE SYSTEM TECHNOLOGY DEMONSTRATIONS WITH THE EMERALD NANOSATELLITE
 06/22/2000 – 06/30/2002 FY01: \$55,000 Total: \$80,000
Prin. Invest.: C A KITTS
Tech. Officer: GSFC/K LUU
CASE Category: 41 – AERONAUTICAL ENGR

NCC 2 1025 **SANTA CLARA UNIV** **1917**
 EVALUATING THE EFFECTS OF MAINTENANCE RESOURCE MANAGEMENT IN AIR SAFETY
 03/02/1998 – 01/31/2000 FY01: -\$39,079 Total: \$360,908
Prin. Invest.: J C TAYLOR
Tech. Officer: ARC/B G KANKI, ARC/M M CONNORS
CASE Category: 62 – PSYCHOLOGY SOCIAL ASPECTS

NCC 2 1156 **SANTA CLARA UNIV** **1918**
 EVALUATING BEHAVIORAL-BASED APPROACHES TO CHANGING SAFETY CULTURE IN AVIATION MAINTENANCE
 02/25/2000 – 01/31/2002 FY01: \$180,000 Total: \$325,524
Prin. Invest.: J TAYLOR
Tech. Officer: ARC/B KANKI
CASE Category: 62 – PSYCHOLOGY SOCIAL ASPECTS

NCC 2 1195 **SANTA CLARA UNIV** **1919**
 SHARP DEMONSTRATION FLIGHT: VIDEO BROADCAST SYSTEM FOR RESEARCH IN INTELLIGENT FLIGHT CHARACTERIZATION
 08/24/2000 – 09/30/2001 FY01: \$0 Total: \$13,300
Prin. Invest.: C A KITTS
Tech. Officer: ARC/P KOLODZIEJ, ARC/S M JOHNSON
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 5 7267 **SONOMA STATE UNIV** **1920**
 GLAST MISSION CONCEPT STUDY AND PUBLIC OUTREACH
 06/29/1998 – 01/31/2000 FY01: -\$46 Total: \$44,954
Prin. Invest.: D COMINSKY
Tech. Officer: GSFC/N GEHRELS
CASE Category: 11 – ASTRONOMY

NAG 5 8603 **SONOMA STATE UNIV** **1921**
 SWIFT EDUCATION AND PUBLIC OUTREACH
 06/23/1999 – 12/31/2000 FY01: -\$15 Total: \$61,921
Prin. Invest.: L R COMINSKY
Tech. Officer: GSFC/N GEHRELS
CASE Category: 11 – ASTRONOMY

NAG 5 9495 **SONOMA STATE UNIV** **1922**
 SWIFT: A PANCHROMATIC GAMMA RAY BURST MIDEX MISSION
 04/19/2000 – 01/31/2002 FY01: \$284,644 Total: \$487,078
Prin. Invest.: L WHITLOCK
Tech. Officer: GSFC/A PARSONS
CASE Category: 11 – ASTRONOMY

NAG 5 9782 SONOMA STATE UNIV 1923
 SWIFT PUBLIC RELATIONS - PART 1
 07/06/2000 - 09/30/2001 FY01: \$27,898 Total: \$39,970
Prin. Invest.: L R COMINSKY
Tech. Officer: GSFC/N GEHRELS
CASE Category: 11 - ASTRONOMY

NAG 5 11328 SONOMA STATE UNIV 1924
 SWIFT AND GLAST PRESS OFFICER FUNDS- FY02
 09/18/2001 - 09/30/2006 FY01: \$11,600 Total: \$11,600
Prin. Invest.: L R COMINSKY
Tech. Officer: GSFC/A M PARSONS
CASE Category: 11 - ASTRONOMY

NCC 5 429 SONOMA STATE UNIV 1925
 SPACE MYSTERIES: INQUIRY-DRIVEN WEB EXPLORATIONS THAT TEACH
 PHYSICAL SCIENCE & MATHEMATICS STANDARD
 09/29/1999 - 09/30/2002 FY01: \$213,524 Total: \$462,992
Prin. Invest.: L COMINSKY *Prin. Invest.:* NONE
Tech. Officer: GSFC/D GABRYS
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 1 2107 STANFORD UNIV 1926
 DEVELOPMENT OF A COMPOSITE DAMAGE MODULE FOR THE STAGS
 FINITE ELEMENT CODE
 09/03/1998 - 06/02/2001 FY01: \$0 Total: \$140,000
Prin. Invest.: F K CHANG
Tech. Officer: LARC/J H STARNES, JR., LARC/P B BOGERT
CASE Category: 41 - AERONAUTICAL ENGR

NAG 1 2144 STANFORD UNIV 1927
 BLENDED-WING-BODY DESIGN FOR ENHANCED ENVIRONMENTAL
 ACCEPTABILITY
 03/23/1999 - 12/31/2001 FY01: \$118,000 Total: \$351,455
Prin. Invest.: I KROO
Tech. Officer: LARC/R R ANTCLIFF
CASE Category: 41 - AERONAUTICAL ENGR

NAG 2 1079 STANFORD UNIV 1928
 INFRARED SIGNATURE MASKING BY AIR PLASMA RADIATION
 08/23/1996 - 10/31/2000 FY01: \$0 Total: \$221,719
Prin. Invest.: C H KRUGER, C O LAUX
Tech. Officer: ARC/W M HUO
CASE Category: 13 - PHYSICS

NAG 2 1219 STANFORD UNIV 1929
 ACTIVE CONTROL OF COMBUSTION INSTABILITY IN AIR-BREATHING
 PROPULSION SYSTEMS - A COMPUTATIONAL & ..
 05/19/1998 - 04/30/2002 FY01: \$552,625 Total: \$1,889,910
Prin. Invest.: C T BOWMAN, C F EDWARDS, G RVETSCH
Tech. Officer: ARC/N N MANSOUR, ARC/A A WRAY
CASE Category: 41 - AERONAUTICAL ENGR

NAG 2 1257 STANFORD UNIV 1930
 GENERATION & CONSERVATION OF DESIGN KNOWLEDGE: NEW MILLENNIUM
 08/24/1998 - 02/14/2000 FY01: -\$147 Total: \$149,853
Prin. Invest.: L J LEIFFER
Tech. Officer: ARC/W J CLANCY
CASE Category: 22 - COMPUTER SCIENCE

NAG 2 1337 STANFORD UNIV 1931
 ENVIRONMENTAL MONITORING FOR SITUATION ASSESSMENT USING
 MOBILE & FIXED SENSORS
 07/13/1999 - 07/14/2002 FY01: \$35,000 Total: \$365,973
Prin. Invest.: R E FIKES
Tech. Officer: ARC/J A KURIEN, ARC/S LAU
CASE Category: 22 - COMPUTER SCIENCE

NAG 2 1354 STANFORD UNIV 1932
 ROLE OF ADRENERGIC RECEPTORS IN ADAPTATION TO MICROGRAVITY:
 GENE TARGETED MICE AS A MODEL OF MICROGRAVITY
 07/21/1999 - 07/14/2002 FY01: \$244,375 Total: \$641,171
Prin. Invest.: D BERSTEIN, B K KOBILKA
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 2 1373 STANFORD UNIV 1933
 HIGH SPEED JET NOISE PREDICTION USING LARGE EDDY SIMULATIONS
 08/11/1999 - 12/31/2001 FY01: \$24,776 Total: \$99,478
Prin. Invest.: S K LELE, B I VASHI
Tech. Officer: ARC/D KWAK
CASE Category: 41 - AERONAUTICAL ENGR

NAG 2 1397 STANFORD UNIV 1934
 EVALUATION OF CHEMICAL KINETICS AND PHOTOCHEMICAL DATA FOR
 USE IN STRATOSPHERIC MODELING
 02/17/2000 - 12/31/2001 FY01: \$62,500 Total: \$122,532
Prin. Invest.: C T BOWMAN
Tech. Officer: ARC/E CONDON
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 2 1464 STANFORD UNIV 1935
 2-D SELF-CALIBRATING PSEUDOLITE ARRAYS FOR COOPERATIVE
 ROVER/AERIAL VEHICLE NAVIGATION
 03/23/2001 - 03/14/2002 FY01: \$160,149 Total: \$160,149
Prin. Invest.: S M ROCK
Tech. Officer: ARC/R MORRIS, ARC/S LAU
CASE Category: 22 - COMPUTER SCIENCE

NAG 2 1478 STANFORD UNIV 1936
 COMPACT LASER-BASED SENSORS FOR MONITORING & CONTROL OF
 GAS TURBINE COMBUSTORS
 04/20/2001 - 04/30/2002 FY01: \$180,000 Total: \$180,000
Prin. Invest.: R K HANSON
Tech. Officer: ARC/N N MANSOUR, ARC/A A WRAY
CASE Category: 46 - MECHANICAL ENGR

NAG 3 1843 STANFORD UNIV 1937
 DROP BREAKUP IN FLOW THROUGH FLUID BEDS AS MODEL OF STOCHASTIC
 STRONG FLOWS
 05/20/1996 - 04/18/2001 FY01: \$0 Total: \$480,000
Prin. Invest.: E G SHAQTEH
Tech. Officer: GRC/B S SINGH
CASE Category: 13 - PHYSICS

NAG 3 1943 **STANFORD UNIV** **1938**
 PROBLEMS IN MICROGRAVITY FLUID MECHANICS: THERMO CAPILLARY
 INSTABILITIES & G-JITTER CONVECTION
 09/03/1996 - 02/28/2001 FY01: \$0 Total: \$385,000
Prin. Invest.: G M HOMSY
Tech. Officer: GRC/J C DUH
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 3 2398 **STANFORD UNIV** **1939**
 ANISOTROPIC COLLOIDAL SELF ASSEMBLY ANISOTROPIC COLLOIDAL
 SELF ASSEMBLY
 04/19/2000 - 11/30/2003 FY01: \$95,000 Total: \$170,000
Prin. Invest.: A P GAST
Tech. Officer: GRC/J H AGUI
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2446 **STANFORD UNIV** **1940**
 MICROGRAVITY FLUID MECHANICS: G-JITTER CONVECTION AND THE
 MECHANICS OF FLUIDIZED BEDS
 05/26/2000 - 11/30/2003 FY01: -\$60,000 Total: \$0
Prin. Invest.: G M HOMSY
Tech. Officer: GRC/F P CHIARAMONTE
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2579 **STANFORD UNIV** **1941**
 IP INFRASTRUCTURE FOR DISTRIBUTED SPACE SYSTEM
 04/13/2001 - 01/30/2004 FY01: \$157,710 Total: \$157,710
Prin. Invest.: A FOX
Tech. Officer: GRC/K BHASIN
CASE Category: 45 - ELECTRICAL ENGR

NAG 3 2615 **STANFORD UNIV** **1942**
 HIGH REGRESSION RATE HYBRID COMBUSTION HIGH REGRESSION RATE
 HYBRID COMBUSTION
 06/19/2001 - 09/30/2001 FY01: \$46,500 Total: \$46,500
Prin. Invest.: B J CANTWELL
Tech. Officer: GRC/D M VENTO
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 5 3077 **STANFORD UNIV** **1943**
 SOLAR OSCILLATIONS INVESTIGATION - MISSION OBSERVATIONS AND
 DATA ANALYSIS
 09/25/1995 - 03/14/2000 FY01: \$0 Total: \$22,111,632
Prin. Invest.: P SCHERRER
Tech. Officer: GSFC/J GURMAN
CASE Category: 11 - ASTRONOMY

NAG 5 3102 **STANFORD UNIV** **1944**
 RELATIVISTIC DISKOSEISMOLOGY
 10/05/1995 - 09/30/1999 FY01: -\$14 Total: \$179,986
Prin. Invest.: R V WAGONER
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 3263 **STANFORD UNIV** **1945**
 HIGH ENERGY RADIATION FROM ROTATION - POWERED PULSARS (NO
 COST TIME EXTENSION)
 07/01/1996 - 04/30/2000 FY01: -\$302 Total: \$130,781
Prin. Invest.: R W ROMANI
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 3441 **STANFORD UNIV** **1946**
 DIGITAL TOPOGRAPHY PROPOSAL: LONG TERM MONITORING OF EARTH
 SURFACE CHANGE WITH ERS-1 AND ERS-2....
 01/11/1997 - 10/14/2001 FY01: \$0 Total: \$164,472
Prin. Invest.: H ZEBKER
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 3732 **STANFORD UNIV** **1947**
 TOPOGRAPHIC MAPPING IN THE ANTARCTIC ENVIRONMENT U INTERFER-
 OMETRY
 02/14/1997 - 02/28/2001 FY01: \$0 Total: \$170,406
Prin. Invest.: D ZEBKER
Tech. Officer: GSFC/R H THOMAS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 3775 **STANFORD UNIV** **1948**
 DEVELOPMENT OF LOW TEMPERATURE WIDE BAND HIGH SPEED
 02/13/1997 - 02/14/2000 FY01: \$0 Total: \$348,000
Prin. Invest.: P CABRERA
Tech. Officer: GSFC/H HASAN
CASE Category: 11 - ASTRONOMY

NAG 5 3906 **STANFORD UNIV** **1949**
 RADAR STUDIES OF LUNAR AND PLANETARY SURFACES
 02/21/1997 - 10/31/2001 FY01: \$63,000 Total: \$302,850
Prin. Invest.: G TYLER
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 3985 **STANFORD UNIV** **1950**
 THE EFFECTS OF CHARGED PARTICLE RADIATION ON GRAVITY SPACE
 03/03/1997 - 02/14/2000 FY01: -\$332 Total: \$103,413
Prin. Invest.: D A LIPA
Tech. Officer: GSFC/H HASAN
CASE Category: 11 - ASTRONOMY

NAG 5 4038 **STANFORD UNIV** **1951**
 PHYSICS OF SOLAR ACTIVITY
 02/26/1997 - 08/31/2000 FY01: -\$2 Total: \$226,775
Prin. Invest.: D A STURROCK
Tech. Officer: GSFC/W WAGNER
CASE Category: 13 - PHYSICS

NAG 5 4554 **STANFORD UNIV** **1952**
 PITCH ANGLE SCATTERING AND PRECIPITATION OF RADIATION OBLIQUE
 WHISTLER WAVES
 05/05/1997 - 11/14/2000 FY01: \$0 Total: \$188,000
Prin. Invest.: D S INAN
Tech. Officer: GSFC/D EVANS
CASE Category: 13 - PHYSICS

NAG 5 5200 **STANFORD UNIV** **1953**
 INVESTIGATION OF THE CORONA/CHROMOSPHERE INTERFACE WITH THE
 CHROMOSPHERIC/CORONAL SPECTROHELIOGRAPH
 05/28/1998 - 05/31/2002 FY01: \$0 Total: \$466,460
Prin. Invest.: A B WALKER
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 - PHYSICS

NAG 5 5300	STANFORD UNIV	1954		NAG 5 7609	STANFORD UNIV	1962	
INVESTIGATION OF CHROMOSPHERIC AND CORONAL STRUCTURES WITH ADVANCED TECHNOLOGY SOLAR IMAGER				ABUNDANCES OF CALCIUM-41 AND HAFNIUM-182 IN THE EARLY SOLAR SYSTEM			
07/18/2000 - 07/17/2003	FY01: \$404,138	Total: \$638,954		07/27/1998 - 07/31/2000	FY01: \$0	Total: \$80,000	
<i>Prin. Invest.:</i> B C WALKER				<i>Prin. Invest.:</i> T IRELAND			
<i>Tech. Officer:</i> HQ/J C BRINTON				<i>Tech. Officer:</i> HQ/J BOYCE			
<i>CASE Category:</i> 13 - PHYSICS				<i>CASE Category:</i> 11 - ASTRONOMY			
NAG 5 6112	STANFORD UNIV	1955		NAG 5 7835	STANFORD UNIV	1963	
STRUCTURE OF SOLAR MAGNETIC AND VELOCITY FIELDS				THE INTERFACE OF TRANSITION REGION AND CORONAL PLASMAS WITH THE CHROMOSPHERIC NETWORK			
07/28/1997 - 06/30/2000	FY01: -\$92	Total: \$263,484		12/14/1998 - 12/14/2001	FY01: \$83,659	Total: \$241,451	
<i>Prin. Invest.:</i> D H SCHERRER				<i>Prin. Invest.:</i> D B GALARCE			
<i>Tech. Officer:</i> GSFC/W J WAGNER				<i>Tech. Officer:</i> GSFC/J GURMAN			
<i>CASE Category:</i> 11 - ASTRONOMY				<i>CASE Category:</i> 19 - PHYSICAL SCIENCE, OTHER			
NAG 5 6148	STANFORD UNIV	1956		NAG 5 8025	STANFORD UNIV	1964	
SURFACE DEFORMATION AND TOPOGRAPHIC MEASUREMENTS FROM THE PRESENCE OF VEGETATION				SEPS/CEPPAD SCIENCE INVESTIGATION			
08/21/1997 - 08/31/2001	FY01: \$0	Total: \$196,919		01/12/1999 - 12/31/2001	FY01: \$30,000	Total: \$160,000	
<i>Prin. Invest.:</i> H A ZEBKER				<i>Prin. Invest.:</i> M WALT			
<i>Tech. Officer:</i> GSFC/H V FREY				<i>Tech. Officer:</i> GSFC/R HOFFMAN			
<i>CASE Category:</i> 32 - GEOLOGICAL SCIENCE				<i>CASE Category:</i> 19 - PHYSICAL SCIENCE, OTHER			
NAG 5 6167	STANFORD UNIV	1957		NAG 5 8040	STANFORD UNIV	1965	
INVERSION OF TIME DEPENDENT SPACE GEODETIC DATA				MESOSPHERIC AND IONOSPHERIC EFFECTS OF RELATIVISTIC ELECTRON PRECIPITATION OBSERVED BY THE SAMPEX A			
08/01/1997 - 06/30/2001	FY01: \$0	Total: \$306,043		01/11/1999 - 01/14/2001	FY01: \$0	Total: \$52,340	
<i>Prin. Invest.:</i> P SEGALL				<i>Prin. Invest.:</i> U S INAN			
<i>Tech. Officer:</i> GSFC/H V FREY				<i>Tech. Officer:</i> GSFC/M H ACUNA			
<i>CASE Category:</i> 32 - GEOLOGICAL SCIENCE				<i>CASE Category:</i> 13 - PHYSICS			
NAG 5 6615	STANFORD UNIV	1958		NAG 5 8563	STANFORD UNIV	1966	
LAND-USE AND LAND-COVER CHANGE IN SONORA, MEXICO				URBANIZATION, LAND USE AND BIOLOGICAL RESOURCES			
11/17/1997 - 05/14/2001	FY01: \$0	Total: \$334,383		05/24/1999 - 05/31/2002	FY01: \$0	Total: \$47,001	
<i>Prin. Invest.:</i> P MATSON				<i>Prin. Invest.:</i> M L IMHOFF			
<i>Tech. Officer:</i> GSFC/A JANETOS				<i>Tech. Officer:</i> GSFC/M L IMHOFF			
<i>CASE Category:</i> 59 - LIFE SCIENCE, OTHER				<i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER			
NAG 5 7144	STANFORD UNIV	1959		NAG 5 8600	STANFORD UNIV	1967	
STUDIES OF THE IMPULSIVE PHASE OF SOLAR FLARE: BASIC MECHANISM AND PARAMETER DISTRIBUTIONS				X-RAY AND MICROWAVE MODELS IN SUPPORT OF HESSI SOLAR FLARE OBSERVATIONS			
04/20/1998 - 10/14/2001	FY01: \$34,747	Total: \$229,184		06/14/1999 - 06/14/2002	FY01: \$88,820	Total: \$135,080	
<i>Prin. Invest.:</i> V PETROSIAN				<i>Prin. Invest.:</i> V PETROSIAN			
<i>Tech. Officer:</i> GSFC/W WAGNER				<i>Tech. Officer:</i> GSFC/G D HOLMAN			
<i>CASE Category:</i> 11 - ASTRONOMY				<i>CASE Category:</i> 11 - ASTRONOMY			
NAG 5 7208	STANFORD UNIV	1960		NAG 5 8645	STANFORD UNIV	1968	
CHEMICAL AND ISOTOPIC ANALYSIS OF TRACE ORGANIC MATERIAL ON METEORITES AND INTERSTELLAR DUST USING				STUDYING THE EFFECTS OF CA, MG, AND K ON AEROSOL SIZE & COMPOSITION, NOY & RADIATIVE TRANSFER			
03/25/1998 - 07/31/2001	FY01: \$0	Total: \$239,000		07/13/1999 - 07/31/2002	FY01: \$105,143	Total: \$317,184	
<i>Prin. Invest.:</i> R ZARE				<i>Prin. Invest.:</i> M Z JACOBSON			
<i>Tech. Officer:</i> HQ/J BOYCE				<i>Tech. Officer:</i> GSFC/M WEI			
<i>CASE Category:</i> 11 - ASTRONOMY				<i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER			
NAG 5 7464	STANFORD UNIV	1961		NAG 5 8714	STANFORD UNIV	1969	
A TRANSITION EDGE MICROCALORIMETER SPECTROMETER FOR THE EUV AND FUV				VARIATIONS OF THE SOLAR MAGNETIC FIELDS			
11/30/1998 - 12/31/2001	FY01: \$78,000	Total: \$232,708		08/03/1999 - 08/31/2002	FY01: \$24,000	Total: \$70,500	
<i>Prin. Invest.:</i> A C WALKER, JR., NONE				<i>Prin. Invest.:</i> P H SCHERRER			
<i>Tech. Officer:</i> GSFC/H HASAN				<i>Tech. Officer:</i> GSFC/J BOYCE			
<i>CASE Category:</i> 11 - ASTRONOMY				<i>CASE Category:</i> 11 - ASTRONOMY			

NAG 5 8802 **STANFORD UNIV** **1970**
 "ORION: A LOW-COST DEMONSTRATION OF FORMATION FLYING"
 12/16/1999 – 07/31/2001 FY01: \$4,512 Total: \$654,512
Prin. Invest.: R BYER
Tech. Officer: GSFC/J O BRISTOW
CASE Category: 41 – AERONAUTICAL ENGR

NAG 5 8866 **STANFORD UNIV** **1971**
 A COUPLED ICE-OCEAN MODEL OF MESOSCALE PHYSICAL/ BIOLOGICAL
 INTERACTIONS IN THE ROSS SEA
 12/08/1999 – 12/31/2001 FY01: \$0 Total: \$169,598
Prin. Invest.: K ARRIGO
Tech. Officer: GSFC/J MARRA
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 8878 **STANFORD UNIV** **1972**
 SOLAR OSCILLATIONS INVESTIGATION-MISSION OBSERVATI ONS AND
 DATA ANALYSIS – CONTINUATION OF NAG5-3077
 01/04/2000 – 06/30/2001 FY01: \$1,564,961 Total: \$4,499,996
Prin. Invest.: P SCHERRER
Tech. Officer: GSFC/J GURMAN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 9040 **STANFORD UNIV** **1973**
 VALIDATION & IMPROVEMENT OF SRTM PERFORMANCE OVER RUGGED
 TERRAIN.
 02/10/2000 – 02/14/2002 FY01: \$50,000 Total: \$100,000
Prin. Invest.: H A ZEBKER
Tech. Officer: GSFC/H V FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 9087 **STANFORD UNIV** **1974**
 SUPERCONDUCTING WIDE-BAND FAST SPECTROPHOTOMETERS
 02/17/2000 – 12/31/2001 FY01: \$320,000 Total: \$621,440
Prin. Invest.: B CABRERA
Tech. Officer: GSFC/P CRANE
CASE Category: 11 – ASTRONOMY

NAG 5 9494 **STANFORD UNIV** **1975**
 UPLINK MICRO-RADIO INSTRUMENT DEVELOPMENT
 04/18/2000 – 04/30/2001 FY01: \$0 Total: \$147,682
Prin. Invest.: L TYLER
Tech. Officer: GSFC/B BETTS
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 9556 **STANFORD UNIV** **1976**
 RESEARCH INTO RADIO OCCULTATION METHODS FOR STUDY OF PLAN-
 ETARY ATMOSPHERES
 05/04/2000 – 04/30/2003 FY01: \$75,000 Total: \$150,000
Prin. Invest.: G TYLER
Tech. Officer: GSFC/D BOGAN
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 9737 **STANFORD UNIV** **1977**
 DISTRIBUTED SPACE SYSTEM TECHNOLOGY DEMONSTRATIONS WITH THE
 EMERALD NANOSATELLITE
 06/22/2000 – 06/30/2002 FY01: \$80,000 Total: \$130,000
Prin. Invest.: DEBRA
Tech. Officer: GSFC/K LUU
CASE Category: 41 – AERONAUTICAL ENGR

NAG 5 9760 **STANFORD UNIV** **1978**
 MEASURING HUMAN IMPACTS ON BIODIVERSITY & CARRYING CAPACITY
 OF ECO-SYSTEMS: COMBINING REMOTELY-SENSE
 06/29/2000 – 08/31/2002 FY01: \$51,619 Total: \$102,105
Prin. Invest.: P EHRlich
Tech. Officer: GSFC/M L IMHOFF
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 9784 **STANFORD UNIV** **1979**
 STRUCTURE OF SOLAR VELOCITY AND MAGNETIC FIELDS
 07/06/2000 – 06/30/2002 FY01: \$45,512 Total: \$169,744
Prin. Invest.: P T SCHERER
Tech. Officer: GSFC/W J WAGNER
CASE Category: 13 – PHYSICS

NAG 5 9842 **STANFORD UNIV** **1980**
 COMPOSITION, PALEOENVIRONMENTAL DISTRIBUTION, AND
 PALEOECOLOGY OF ARCHEAN BACTERIAL COMMUNITIE
 07/31/2000 – 07/31/2002 FY01: \$88,400 Total: \$171,673
Prin. Invest.: D R LOWE
Tech. Officer: GSFC/M MEYER
CASE Category: 11 – ASTRONOMY

NAG 5 9853 **STANFORD UNIV** **1981**
 ANTARCTIC ICE SHEET PENETRATION DEPTHS, GRAIN SIZE & ACCUMULA-
 TION RATES FROM INSAR & SAR ANALYSIS OF
 07/31/2000 – 03/31/2002 FY01: \$42,416 Total: \$84,832
Prin. Invest.: H ZEBKER
Tech. Officer: GSFC/W ABDALATI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 9862 **STANFORD UNIV** **1982**
 SUPPORT FOR PUBLICATION COSTS FOR PRODUCT OF NASA- FUNDED
 MEETING
 08/09/2000 – 07/31/2001 FY01: \$0 Total: \$10,000
Prin. Invest.: H A MOONEY
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 9887 **STANFORD UNIV** **1983**
 CHEMICAL AND ISOTOPIC SYSTEMATICS OF EARLY SOLAR SYSTEM
 PRECURSORS & PRODUCTS
 08/21/2000 – 08/31/2001 FY01: \$42,000 Total: \$42,000
Prin. Invest.: T IRELAND
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 10483 **STANFORD UNIV** **1984**
 SOLAR OSCILLATIONS INVESTIGATION – MICHELSON DOPPLER IMAGER
 FOR THE SOHO SOLAR MAXIMUM MISSION
 03/05/2001 – 03/14/2002 FY01: \$2,242,239 Total: \$2,242,239
Prin. Invest.: P H SCHERRER
Tech. Officer: GSFC/J GURMAN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 10519 **STANFORD UNIV** **1985**
 THE 15TH NATIONAL CONFERENCE OF THE BLACK PHYSICS STUDENTS
 03/09/2001 – 03/14/2002 FY01: \$84,800 Total: \$84,800
Prin. Invest.: B CABRERA
Tech. Officer: GSFC/D MENCHAN
CASE Category: 13 – PHYSICS

NAG 5 10534 **STANFORD UNIV** **1986**
 MONITORING & MODELING LAND-USE CHANGE: INTERGRATING REMOTE SENSING WITH SOCIOECONOMIC DRIVERS
 03/12/2001 – 02/28/2002 FY01: \$115,238 Total: \$115,238
Prin. Invest.: K SETO
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 10544 **STANFORD UNIV** **1987**
 UNDERSTANDING ORGANICS IN METEORITES & THE PRE-BIOTIC ENVIRONMENT
 03/09/2001 – 07/31/2002 FY01: \$45,000 Total: \$45,000
Prin. Invest.: R ZARE
Tech. Officer: GSFC/J M BOYCE
CASE Category: 12 – CHEMISTRY

NAG 5 10576 **STANFORD UNIV** **1988**
 INFERENCE OF SURFACE PROPERTIES FROM MARS GLOBAL SURVEYOR 3.6 CM WAVELENGTH OBLIQUE SCATTERING
 03/21/2001 – 02/28/2002 FY01: \$50,000 Total: \$50,000
Prin. Invest.: G TYLER
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 10719 **STANFORD UNIV** **1989**
 ORION: A LOW-COST DEMONSTRATION OF FORMATION FLYING
 04/24/2001 – 01/31/2002 FY01: \$298,830 Total: \$298,830
Prin. Invest.: R L BYER
Tech. Officer: GSFC/S P HUGHES
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 5 10799 **STANFORD UNIV** **1990**
 CONCEPT STUDY FOR THE "SATELLITE TEST OF THE EQUIVALENCE PRINCIPLE" (STEP) MISSION AO-99-OSS-0
 05/01/2001 – 04/30/2002 FY01: \$285,990 Total: \$285,990
Prin. Invest.: C EVERITT
Tech. Officer: GSFC/J R BYRD
CASE Category: 11 – ASTRONOMY

NAG 5 10976 **STANFORD UNIV** **1991**
 INVESTIGATION OF HELIOSEISMIC WAVES AND MAGNETIC VARIATIONS ASSOCIATED WITH SOLAR FLARES
 05/29/2001 – 05/31/2002 FY01: \$27,684 Total: \$27,684
Prin. Invest.: V PETROSIAN
Tech. Officer: GSFC/W J WAGNER
CASE Category: 13 – PHYSICS

NAG 5 11264 **STANFORD UNIV** **1992**
 MODELLING CHANGE IN THE SOUTHERN OCEAN: BIOCHEMISTRY OF CARBON UPTAKE AND EXPORT IN THE ROSS SEA
 08/31/2001 – 09/30/2004 FY01: \$80,683 Total: \$80,683
Prin. Invest.: K ARRIGO
Tech. Officer: GSFC/J MARRA
CASE Category: 33 – OCEANOGRAPHY

NAG 8 1151 **STANFORD UNIV** **1993**
 LASER SCATTERING TOMOGRAPHY
 08/18/1995 – 04/30/2001 FY01: \$0 Total: \$730,000
Prin. Invest.: R S FEIGELSON
Tech. Officer: MSFC/D A REISS
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1431 **STANFORD UNIV** **1994**
 R/S HIGH RESOLUTION STUDY OF THE CRITICAL REGION OF OXYGEN USING MAGNETIC LEVITATION
 03/05/1998 – 01/31/2003 FY01: \$142,500 Total: \$432,455
Prin. Invest.: J A LIPA
Tech. Officer: MSFC/D HUBBARD
CASE Category: 13 – PHYSICS

NAG 8 1436 **STANFORD UNIV** **1995**
 R/S A TEST OF SUPERSYMMETRY THEORY BY SEARCHING FOR ANOMALOUS SHORT RANGE FORCES
 02/06/1998 – 07/31/2001 FY01: \$0 Total: \$124,856
Prin. Invest.: J A LIPA, NONE
Tech. Officer: MSFC/D HUBBARD
CASE Category: 13 – PHYSICS

NAG 8 1439 **STANFORD UNIV** **1996**
 R/S FUNDAMENTAL PHYSICS EXPERIMENTS WITH SUPERCONDUCTING CAVITY-STABILIZED OSCILLATORS ON SPACE
 02/01/1998 – 01/31/2003 FY01: \$237,500 Total: \$827,542
Prin. Invest.: J A LIPA
Tech. Officer: MSFC/J W POE
CASE Category: 13 – PHYSICS

NAG 8 1457 **STANFORD UNIV** **1997**
 R/S INVESTIGATION OF THE CRYSTAL GROWTH OF DIELECTRIC MATERIALS BY THE BRIDGMAN TECHNIQUE
 02/01/1998 – 01/31/2002 FY01: \$124,450 Total: \$484,450
Prin. Invest.: R S FEIGELSON
Tech. Officer: MSFC/C TALLEY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1692 **STANFORD UNIV** **1998**
 "SOLID STATE ELECTROCHEMICAL OXYGEN CONVERSION FOR MARTIAN & LUNAR ENVIRONMENTS..."
 06/02/2000 – 11/30/2003 FY01: \$55,000 Total: \$100,000
Prin. Invest.: G M HOMSY
Tech. Officer: MSFC/P DOTY
CASE Category: 12 – CHEMISTRY

NAG 8 1772 **STANFORD UNIV** **1999**
 THE EFFECTS OF LARGE-SCALE ONE-DIMENSIONAL CONFINEMENT ON THE SPECIFIC HEAT OF HELIUM...
 05/04/2001 – 02/28/2003 FY01: \$150,000 Total: \$150,000
Prin. Invest.: J A LIPA
Tech. Officer: MSFC/D HUBBARD
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1777 **STANFORD UNIV** **2000**
 TEST OF FUNDAMENTAL PHYSICS THROUGH STUDIES OF SUPERFLUID HELIUM THREE
 04/27/2001 – 09/30/2005 FY01: \$100,000 Total: \$100,000
Prin. Invest.: D D OSHEROFF, NONE
Tech. Officer: MSFC/D HUBBARD
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAS 1 00104 **STANFORD UNIV** **2001**
 AWARD CONTRACT RESULTING FROM NRA-99-OES-07
 05/25/2000 – 05/24/2002 FY01: \$303,922 Total: \$520,922
Prin. Invest.: R L BYER
Tech. Officer: LARC/F PERI
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 1 98139 **STANFORD UNIV** **2002**
 SAL: SYMBOLIC ANALYSIS LABORATORY
 10/30/1998 – 10/29/2001 FY01: \$100,181 Total: \$575,251
Prin. Invest.: D L DILL
Tech. Officer: LARC/P S MINER
CASE Category: 22 – COMPUTER SCIENCE

NAS 5 00147 **STANFORD UNIV** **2003**
 GAMMA RAY LARGE AREA SPACE TELESCOPE (GLAST)
 05/03/2000 – 11/30/2001 FY01: \$1,235,552 Total: \$2,046,552
Prin. Invest.: P MICHELSON
Tech. Officer: GSFC/S LAMBROSS
CASE Category: 11 – ASTRONOMY

NAS 5 31726 **STANFORD UNIV** **2004**
 EOS – "BIOSPHERE-ATMOSPHERE INTERACTIONS" STUDY
 10/24/1991 – 06/30/2000 FY01: -\$29,446 Total: \$1,310,754
Prin. Invest.: H MOONEY, P VITOUSEK
Tech. Officer: GSFC/P SELLERS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 98151 **STANFORD UNIV** **2005**
 CONSTELLATION – X PROGRAM
 11/27/1998 – 12/15/2001 FY01: \$0 Total: \$60,000
Prin. Invest.: B CABRERA
Tech. Officer: GSFC/J GRADY
CASE Category: 11 – ASTRONOMY

NAS 8 39225 **STANFORD UNIV** **2006**
 GRAVITY PROBE B SCIENCE MISSION INTERIM CONTRACT
 01/18/1995 – 09/30/2004 FY01: \$38,963,519 Total: \$321,212,206
Prin. Invest.: C W EVERITT, B PARKINSON
Tech. Officer: MSFC/R S GEVEDEN, MSFC/B RANDOLPH
CASE Category: 13 – PHYSICS

NCC 2 721 **STANFORD UNIV** **2007**
 THE STRUCTURE, FACIES & DEPOSITION OF SILICEOUS S INTER AROUND
 THERMAL SPRINGS: IMPLICATIONS FOR...
 07/03/1991 – 12/31/2001 FY01: \$0 Total: \$539,229
Prin. Invest.: D R LOWE
Tech. Officer: ARC/D J DES MARAIS, ARC/S CHANG
CASE Category: 32 – GEOLOGICAL SCIENCE

NCC 2 908 **STANFORD UNIV** **2008**
 STUDIES OF PLANETARY RING SYSTEMS
 06/26/1995 – 05/31/2002 FY01: \$147,990 Total: \$839,827
Prin. Invest.: A L TYLER, M R SHOWALTER
Tech. Officer: ARC/J N CUZZI
CASE Category: 11 – ASTRONOMY

NCC 2 1010 **STANFORD UNIV** **2009**
 DECELOPMENT OF 3-D BIOMEDICAL COMPUTATION
 01/07/1998 – 03/31/2002 FY01: \$2,236,303 Total: \$3,586,724
Prin. Invest.: S A SCHENDEL
Tech. Officer: ARC/K A SOUZA
CASE Category: 56 – MEDICL

NCC 2 1074 **STANFORD UNIV** **2010**
 THE RESEARCH & TRAINING ACTIVITIES FOR THE JOINT I NSTITUTE FOR
 AERONAUTICS AND ACOUSTICS
 12/21/1998 – 10/31/1999 FY01: -\$1,243 Total: \$68,757
Prin. Invest.: B J CANTWELL
Tech. Officer: ARC/R A MEHTA
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 2 1151 **STANFORD UNIV** **2011**
 CENTER FOR TURBULENCE RESEARCH
 01/07/2000 – 01/31/2002 FY01: \$1,250,000 Total: \$2,570,000
Prin. Invest.: P MOIN
Tech. Officer: ARC/N N MANSOUR, ARC/M M ROGER
CASE Category: 46 – MECHANICAL ENGR

NCC 2 1154 **STANFORD UNIV** **2012**
 MULTIPLE COOPERATING ROBOTS
 01/20/2000 – 06/30/2001 FY01: \$0 Total: \$569,999
Prin. Invest.: S ROCK
Tech. Officer: ARC/M G BUALAT/S LAU
CASE Category: 22 – COMPUTER SCIENCE

NCC 2 1172 **STANFORD UNIV** **2013**
 HIGH REGRESSION RATE HYBRID COMBUSTION
 04/10/2000 – 09/30/2001 FY01: \$0 Total: \$198,240
Prin. Invest.: B J CANTWELL
Tech. Officer: ARC/G G ZILLIAC
CASE Category: 42 – ASTRONAUTICAL ENGR

NCC 2 1175 **STANFORD UNIV** **2014**
 THE DEVELOPMENT OF A SOLID WASTE TREATMENT TECHNOL OGY FOR
 THE NEAR TERM HUMAN EXPLORATION OF MARS
 04/27/2000 – 09/30/2001 FY01: \$118,116 Total: \$228,710
Prin. Invest.: M REINHARD
Tech. Officer: ARC/M T FLYNN
CASE Category: 42 – ASTRONAUTICAL ENGR

NCC 2 1208 **STANFORD UNIV** **2015**
 DOES MECHANICAL STIMULATION ALTER GENE EXPRESION I N C.ELE-
 GANS
 11/24/2000 – 11/14/2001 FY01: \$40,000 Total: \$40,000
Prin. Invest.: S K KIM
Tech. Officer: ARC/C A CONLEY, ARC/E M HOLTON
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NCC 2 5186 **STANFORD UNIV** **2016**
 HIGHLY ACCURATE RECONSTRUCTION OF COMPUTED TOMOGRAPHY
 VOLUME SCANS FOR THE DETERMINATION IF LOCAL BO
 07/25/1996 – 06/30/2000 FY01: -\$30 Total: \$128,970
Prin. Invest.: S A NAPEL
Tech. Officer: ARC/R T WHALEN
CASE Category: 56 – MEDICL

NCC 2 5261 **STANFORD UNIV** **2017**
 INVESTIGATION OF ATTENTIONAL BOTTLENECKS USING FUN CTIONAL
 MAGNETIC RESONANCE IMAGING
 06/17/1998 – 02/28/2001 FY01: \$0 Total: \$76,258
Prin. Invest.: J E GABRIELI
Tech. Officer: ARC/R W REMINGTON, ARC/J C JOHNSTON
CASE Category: 61 – PSYCHOLOGY BIOLOGY

NCC 2 5270 **STANFORD UNIV** **2018**
 EXPLORING CARBON NANOTUBES FOR FUTURE 1NM NANOOPTIC HOGRAPHY
 06/12/1998 – 05/31/2001 FY01: \$0 Total: \$70,000
Prin. Invest.: H DAI
Tech. Officer: ARC/T R GOVINDAN
CASE Category: 12 – CHEMISTRY

NCC 2 5278 **STANFORD UNIV** **2019**
 ARCHITECTURE FOR ACCESS & MUNIPULATION OF HETEROGENEOUS INFORMATION
 07/16/1998 – 06/30/2001 FY01: \$0 Total: \$190,000
Prin. Invest.: H GARCIA-MOLINA
Tech. Officer: ARC/M GERALD-YAMASAKI
CASE Category: 22 – COMPUTER SCIENCE

NCC 2 5298 **STANFORD UNIV** **2020**
 THEORETICAL MODELING OF AUTOCATALYTIC MOLECULAR SYSTEMS
 10/22/1998 – 03/31/2000 FY01: \$0 Total: \$30,000
Prin. Invest.: R B LAUGHLIN
Tech. Officer: ARC/J D SCARGLE, ARC/S P COLOMBANO
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NCC 2 5335 **STANFORD UNIV** **2021**
 SHARP SOUNDING ROCKET EXPERIMENT & ENTRY SIMULATION
 07/23/1999 – 12/31/2000 FY01: \$0 Total: \$122,275
Prin. Invest.: B CANTWELL, R TWIGGS
Tech. Officer: ARC/P KOLODZIEJ, ARC/D J RASKY
CASE Category: 41 – AERONAUTICAL ENGR

NCC 2 5350 **STANFORD UNIV** **2022**
 SIMULATION-BASED PROTOTYPING OF SOLID-STATE QUANTUM COMPUTERS
 09/15/1999 – 03/31/2001 FY01: \$0 Total: \$60,000
Prin. Invest.: K CHO
Tech. Officer: ARC/T R GOVINDAN
CASE Category: 13 – PHYSICS

NCC 2 5352 **STANFORD UNIV** **2023**
 THE STRUCTURE & CHEMISTRY OF HIGH DENSITY INDUCTIVELY COUPLED PLASMA DISCHARGES USED IN MICROELECTRONICS
 09/22/1999 – 04/14/2000 FY01: -\$49 Total: \$45,463
Prin. Invest.: M A CAPPELLI
Tech. Officer: ARC/S P SHARMA
CASE Category: 41 – AERONAUTICAL ENGR

NCC 2 5359 **STANFORD UNIV** **2024**
 INVESTIGATION OF CONVOLUTION SEGMENT PAIR DYADS IN BACTERIAL GENOMES
 10/26/1999 – 10/14/2001 FY01: \$65,000 Total: \$115,500
Prin. Invest.: R B LAUGHLIN
Tech. Officer: ARC/M L FONDA
CASE Category: 13 – PHYSICS

NCC 2 5363 **STANFORD UNIV** **2025**
 DEVELOPMENT OF FUNDAMENTAL TECHNOLOGIES FOR FLUID FLOW CALCULATIONS
 01/25/2000 – 01/31/2002 FY01: \$76,165 Total: \$187,415
Prin. Invest.: T HUGHES
Tech. Officer: ARC/T J BARTH
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NCC 2 5371 **STANFORD UNIV** **2026**
 FABRICATION OF SILICON SUBSTRATES FOR CONTROLLED SYNTHESIS OF CARBON NANOTUBES
 03/23/2000 – 02/28/2001 FY01: \$0 Total: \$45,050
Prin. Invest.: Z SHEN
Tech. Officer: ARC/M MEYYAPPAN/H PARTRIDGE
CASE Category: 13 – PHYSICS

NCC 2 5377 **STANFORD UNIV** **2027**
 DEVELOPMENT AND APPLICATION OF NOVEL DIAGNOSTICS FOR ARC-JET CHARACTERIZATION
 04/03/2000 – 03/31/2002 FY01: \$95,000 Total: \$189,896
Prin. Invest.: R K HANSON
Tech. Officer: ARC/G A RAICHE, ARC/J H GRINSTEAD
CASE Category: 41 – AERONAUTICAL ENGR

NCC 2 5381 **STANFORD UNIV** **2028**
 IN VIVO CHARACTERIZATION OF BREAST TUMOR TISSUE USING THE NASA SMART PROBE
 04/28/2000 – 11/30/2000 FY01: \$0 Total: \$23,708
Prin. Invest.: S JEFFREY
Tech. Officer: ARC/R MAH
CASE Category: 56 – MEDICAL

NCC 2 5400 **STANFORD UNIV** **2029**
 SIMULATION-BASED DESIGN OF SMART NANOTUBE COMPOSITE MATERIALS
 09/25/2000 – 09/30/2002 FY01: \$42,902 Total: \$81,549
Prin. Invest.: K J CHO
Tech. Officer: ARC/H PARTIDGE, ARC/M MEYYAPPAN
CASE Category: 12 – CHEMISTRY

NCC 2 5422 **STANFORD UNIV** **2030**
 DESIGN OF PREDICTIVE MODELS OF NASA STU DIED MFD-BYPASS SCRAMJET ENGINES
 03/09/2001 – 02/28/2002 FY01: \$45,000 Total: \$45,000
Prin. Invest.: C TOMLIN
Tech. Officer: ARC/G MEYER, ARC/R BACH
CASE Category: 49 – ENGINEERING, OTHER

NCC 2 5434 **STANFORD UNIV** **2031**
 NONINVASIVE INVESTIGATION OF BONE ADAPTATION IN HUMANS TO CUMULATIVE DAILY MECHANICAL LOADING
 04/26/2001 – 04/30/2002 FY01: \$61,145 Total: \$61,145
Prin. Invest.: N J PELC
Tech. Officer: ARC/R T WHALEN, ARC/S B ARNAUD
CASE Category: 56 – MEDICAL

NCC 2 5439 **STANFORD UNIV** **2032**
 SIMULATION BASED PROTOTYPED OF SOLID-STATE QUANTUM COMPUTERS: A PATHWAY FOR REVOLUTIONARY COMPUTING
 07/17/2001 – 05/31/2002 FY01: \$42,719 Total: \$42,719
Prin. Invest.: K CHO
Tech. Officer: ARC/H PATRIDGE, ARC/T R GOVINDAN
CASE Category: 13 – PHYSICS

NCC 2 5444 **STANFORD UNIV** **2033**
 THREE DIMENSIONAL NUMERICAL SIMULATION OF NASA STU DIED MFD-BYPASS SCRAMJET ENGINES
 07/12/2001 – 05/31/2002 FY01: \$35,000 Total: \$35,000
Prin. Invest.: R W MACCORMICK
Tech. Officer: ARC/U B MANTA
CASE Category: 41 – AERONAUTICAL ENGR

NCC 2 5446 **STANFORD UNIV** **2034**
 FABRICATION OF SILICON SUBSTRATES FOR CONTROLLED SYNTHESIS OF
 CARBON NANOTUBES
 07/16/2001 – 05/14/2002 FY01: \$49,120 Total: \$49,120
Prin. Invest.: Z X SHEN
Tech. Officer: ARC/H PATRIDGE, ARC/M MEYYAPPAN
CASE Category: 12 – CHEMISTRY

NCC 2 5457 **STANFORD UNIV** **2035**
 DEVELOPMENT OF FUNDAMENTAL TECHNOLOGIES FOR COMPLEX MULTI-
 SCALE FLUID FLOW CALCULATIONS
 08/17/2001 – 08/14/2002 FY01: \$50,000 Total: \$50,000
Prin. Invest.: T J HUGHES
Tech. Officer: ARC/N MANSOUR, ARC/T BARTH
CASE Category: 41 – AERONAUTICAL ENGR

NCC 2 5467 **STANFORD UNIV** **2036**
 MOLECULAR DYNAMICS ON MASSIVELY PARALLEL COMPUTERS :
 TOWARDS BIOLOGICAL TIME SCALES
 09/28/2001 – 09/30/2002 FY01: \$60,133 Total: \$60,133
Prin. Invest.: E F DARVE
Tech. Officer: ARC/N MANSOUR
CASE Category: 22 – COMPUTER SCIENCE

NCC 3 640 **STANFORD UNIV** **2037**
 ATTENUATION OF GAS TURBULENCE BY A NEARLY STATIONARY DISPERSION
 OF FINE PARTICLES
 08/18/1998 – 12/31/2001 FY01: \$95,000 Total: \$375,000
Prin. Invest.: J K EATON
Tech. Officer: GRC/F CHARIMONTE
CASE Category: 46 – MECHANICAL ENGR

NCC 8 197 **STANFORD UNIV** **2038**
 ACTIVE SENSING MONITORING OF CRYOGENIC COMPOSITE STRUCTURES
 FOR SPACE TRANSPORTATION APPLICATIONS.
 03/09/2000 – 03/05/2002 FY01: \$130,000 Total: \$290,000
Prin. Invest.: F CHANG
Tech. Officer: MSFC/A KELLEY
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 2 52246 **STANFORD UNIV** **2039**
 ADVANCED LIFE SUPPORT POWER REDUCTION
 08/20/1998 – 09/30/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: B LUSIGNAN
Tech. Officer: ARC/R T WHALEN
CASE Category: 59 – LIFE SCIENCE, OTHER

NGT 2 52267 **STANFORD UNIV** **2040**
 AN ALTERNATIVE TO PNEUMATIC CONTROL TECHNIQUES FOR ROLL-YAW
 CONTROL OF FLIGHT VEHICLES
 07/28/2000 – 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: S M ROCK
Tech. Officer: ARC/R D MEHTA, ARC/J C ROSS
CASE Category: 41 – AERONAUTICAL ENGR

NGT 2 52282 **STANFORD UNIV** **2041**
 VESTIBULO-OCULAR REFLEXES IN NORMAL AND OTOCONIA-DEFICIENT
 HEAD TILT (HET) MICE
 08/09/2001 – 06/30/2002 FY01: \$21,000 Total: \$21,000
Prin. Invest.: J RAYMOND
Tech. Officer: ARC/R D BOYLE, ARC/T INTRAVIA
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NGT 5 92 **STANFORD UNIV** **2042**
 RADIO DIAGNOSTICS OF AURORAL HISS AND ASSOCIATED PLASMA
 DENSITY STRUCTURES/STUDENT: MARIA SALVATI
 06/09/1999 – 09/14/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: U UMRAN
Tech. Officer: GSFC/M S BURRELL
CASE Category: 45 – ELECTRICAL ENGR

NGT 5 103 **STANFORD UNIV** **2043**
 ADVANCED SOLAR EUV & X-RAY SPECTROHELIOGRAPHY WITH THE TRANSITION
 EDGE SENSOR MICROCALORIMETER/STUDENT
 05/25/2000 – 08/31/2000 FY01: -\$22,000 Total: \$0
Prin. Invest.: A B WALKER
Tech. Officer: GSFC/G A SOFFEN
CASE Category: 13 – PHYSICS

NGT 5 30204 **STANFORD UNIV** **2044**
 LAND-USE CHANGE, AGRICULTURAL RUNOFF, & GREENHOUSE GASES IN
 TWO ESTUARIES OF SOUTHERN SONORA MEXICO
 08/19/1999 – 08/31/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: P MATSON
Tech. Officer: GSFC/M WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 30216 **STANFORD UNIV** **2045**
 PHYSIO-CHEMICAL AND BIOLOGICAL CONTROL OVER THE FATE OF
 NITROGEN AND PHOSPHORUS IN TROPICAL SOIL
 08/24/1999 – 08/31/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: P M VITOUSEK
Tech. Officer: GSFC/M WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 30342 **STANFORD UNIV** **2046**
 HYDROLOGIC APPLICATIONS OF SATELLITE RADAR INTERFEROMETRY: LAND
 SUBSIDENCE OVER EXPLOITED AQUIFER SYSTEMS
 08/21/2000 – 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: H ZEBKER
Tech. Officer: GSFC/M WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 30360 **STANFORD UNIV** **2047**
 THE COCCIDIOIDES IMMITIS FUNGUS: EXPOSURE MODELING & PUBLIC
 POLICY THROUGH FAVORED SOIL HABITAT
 08/23/2000 – 08/31/2001 FY01: \$0 Total: \$22,000
Prin. Invest.: G W ERNST
Tech. Officer: GSFC/M WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 30392 **STANFORD UNIV** **2048**
 RESOLVING THE RED SEA PARADOX: INTERANNUAL TO DECADEAL VARIABILITY
 IN PRIMARY PRODUCTION AND CORAL
 08/14/2001 – 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: K ARRIGO
Tech. Officer: GSFC/M WEI
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 50044 **STANFORD UNIV** **2049**
 THE SEARCH FOR A DEFINITIVE BLACK HOLE SIGNATURE: PREDICTED MODES OF
 DISK OSCILLATION
 07/17/1997 – 08/31/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: R WAGONER
Tech. Officer: GSFC/A NURRIDIN
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 50075 **STANFORD UNIV** **2050**
 SENSING AND CONTROL TECHNOOGIES FOR FORMATION FLYI
 08/26/1997 – 12/31/2000 FY01: -\$447 Total: \$65,553
Prin. Invest.: J HOW
Tech. Officer: HQ/A NURRIDIN
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 50101 **STANFORD UNIV** **2051**
 ASSESSING LINKS BETWEEN BIODIVERSITY AND ECOSYSTEM FORESTS
 09/06/1997 – 08/31/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: C FIELD
Tech. Officer: GSFC/M WEI
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 50227 **STANFORD UNIV** **2052**
 GLOBAL LIGHTNING DETECTION AND LOCATION USING LONG RANGE VLF
 SPHERICMEASUREMENTS
 09/29/1998 – 08/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: U INAN, WOOD
Tech. Officer: HQ/A NURRIDIN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 5 50254 **STANFORD UNIV** **2053**
 MULTI-SPECTRAL OBSERVATIONS OF THE SOLAR CORONA, CHROMO-
 SPHERE AND TRANSITION REGION
 06/10/1999 – 06/30/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: A B WALKER, JR.
Tech. Officer: GSFC/L SMITH
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 50351 **STANFORD UNIV** **2054**
 NONLINEAR BEAM-PLASMA COUPLING OF THUNDERSTORM- GENERATED
 RELATIVISTIC ELECTRONS TO THE MAGNETOSPH
 05/10/2001 – 06/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: U S INAN
Tech. Officer: GSFC/J SHARBER
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 50358 **STANFORD UNIV** **2055**
 IP INFRASTRUCTURE FOR DISTRIBUTED SPACE SYSTEMS
 05/14/2001 – 07/31/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: A FOX
Tech. Officer: HQ/K BLANDING
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 9 28 **STANFORD UNIV** **2056**
 TASK-LEVEL CONTROL FOR SPACE ROBOTIC MANIPULATORS
 09/25/1997 – 09/30/2000 FY01: -\$5,035 Total: \$60,965
Prin. Invest.: J HOW
Tech. Officer: JSC/D G SICKOREZ
CASE Category: 42 – ASTRONAUTICAL ENGR

NGT10 52619 **STANFORD UNIV** **2057**
 GSRP TRAINING GRANT
 01/20/1999 – 07/30/2000 FY01: -\$3,948 Total: \$34,719
Prin. Invest.: C S CRIDDLE
Tech. Officer: KSC/R M WHEELER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 5191 **THE SCRIPPS REASERCH INST (TSRI) -LA JOLLA** **2058**
 SATELLITE REMOTE SENSING STUDIES OF BIOLOGICAL AND
 BIOGEOCHEMICAL PROCESSES IN THE OCEAN
 04/21/1998 – 03/31/2001 FY01: \$0 Total: \$38,852
Prin. Invest.: M VERNET
Tech. Officer: GSFC/F E HOGE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 9386 **THE SCRIPPS REASERCH INST (TSRI) -LA JOLLA** **2059**
 EVOLUTION OF CATALYIC RNA IN THE LABORATORY
 04/07/2000 – 03/31/2002 FY01: \$288,600 Total: \$560,461
Prin. Invest.: G JOYCE
Tech. Officer: HQ/M MEYER
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 9604 **THE SCRIPPS REASERCH INST (TSRI) -LA JOLLA** **2060**
 A REGIONAL REAL-TIME, INTERACTIVE, GIS-BASED COMPU TATIONAL
 ENVIRONMENT FOR NASA'S DIRECT BROADCAST
 05/31/2000 – 05/31/2002 FY01: \$350,000 Total: \$450,000
Prin. Invest.: J J SIMPSON
Tech. Officer: GSFC/J DODGE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 8 1834 **THE SCRIPPS REASERCH INST (TSRI) -LA JOLLA** **2061**
 CRYSTALLIZATION OF INTEGRAL MEMBRANE PROTEINS US ING MOLEC-
 ULAR BIOLOGY
 09/19/2001 – 11/30/2004 FY01: \$52,000 Total: \$52,000
Prin. Invest.: G A CHANG
Tech. Officer: MSFC/B GUYNES
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NCC 2 1055 **THE SCRIPPS REASERCH INST (TSRI) -LA JOLLA** **2062**
 SELF-REPRODUCING MOLECULAR SYSTEMS & DARINIAN CHEM ISTRY
 08/27/1998 – 06/30/2003 FY01: \$1,129,733 Total: \$3,263,033
Prin. Invest.: R GHADIRI
Tech. Officer: ARC/L J CAROFF, ARC/S CHANG
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 1 2191 **UNIV OF CALIFORNIA - BERKELEY** **2063**
 MODELG ISOTOPE FRACTIONATION IN STRATOSP C02/N20/ CH4&03,INVEST
 STRATOS CHEM/TRANSPORT, STRAT/TROPOS
 05/17/1999 – 03/30/2002 FY01: \$95,076 Total: \$282,801
Prin. Invest.: K A BOERING
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 1135 **UNIV OF CALIFORNIA - BERKELEY** **2064**
 ALGORITHMS FOR VISUAL SEARCH AND THE PATHFINDER RO VER
 06/25/1997 – 11/30/1999 FY01: \$0 Total: \$175,000
Prin. Invest.: L W STARK
Tech. Officer: ARC/M M SIMS
CASE Category: 22 – COMPUTER SCIENCE

NAG 2 1210 **UNIV OF CALIFORNIA - BERKELEY** **2065**
 FORMAL METHODS FOR SOFTWARE EVOLUTION MODELING INT ERFACE
 05/07/1998 – 07/31/2001 FY01: \$0 Total: \$449,999
Prin. Invest.: A AOLEM
Tech. Officer: ARC/M R LOWRY
CASE Category: 22 – COMPUTER SCIENCE

NAG 2 1214 UNIV OF CALIFORNIA - BERKELEY 2066
 MOCHA-MODULARITY IN MODEL CHECKING
 05/05/1998 - 10/31/2000 FY01: -\$643 Total: \$849,357
Prin. Invest.: T A HENZINGER
Tech. Officer: ARC/M R LOWREY
CASE Category: 22 - COMPUTER SCIENCE

NAG 2 1351 UNIV OF CALIFORNIA - BERKELEY 2067
 EARLY GRAVITROPIC EVENTS IN ROOTS OF ARABIDOPSIS: CA2+ & H+ FLUXES IN THE COLUMELLA CELLS
 07/21/1999 - 07/31/2002 FY01: \$112,044 Total: \$346,437
Prin. Invest.: L J FELDMAN
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY(EXCLUDING ENVIR)

NAG 2 1359 UNIV OF CALIFORNIA - BERKELEY 2068
 COMPARATIVE ANALYSIS OF SEGMENTATION, DURING EMBRYOGENESIS, POSTEMBRYONIC GROWTH & REGENERATION, AM
 07/23/1999 - 07/31/2001 FY01: \$186,050 Total: \$458,243
Prin. Invest.: D A WEISBLAT
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 2 1361 UNIV OF CALIFORNIA - BERKELEY 2069
 HEMICHORDATES & THE ORIGIN OF CHORDATES
 07/27/1999 - 07/14/2001 FY01: \$170,579 Total: \$446,868
Prin. Invest.: J C GERHART
Tech. Officer: ARC/M M AVERNER, ARC/G C JAHNS
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 2 1398 UNIV OF CALIFORNIA - BERKELEY 2070
 SUPERCONDUCTING BOLOMETERS OF INFRARED AND MILLIMETER WAVELENGTHS
 03/16/2000 - 03/14/2002 FY01: \$65,000 Total: \$155,000
Prin. Invest.: P L RICHARDS
Tech. Officer: ARC/C MCCREIGHT
CASE Category: 13 - PHYSICS

NAG 2 1479 UNIV OF CALIFORNIA - BERKELEY 2071
 DETERMINISTIC & PROBABILISTIC HYBRID CONTROL OF A TM
 05/01/2001 - 04/30/2002 FY01: \$40,000 Total: \$40,000
Prin. Invest.: S S SASTRY
Tech. Officer: ARC/G MEYER, ARC/M J BONDI
CASE Category: 49 - ENGINEERING, OTHER

NAG 2 1483 UNIV OF CALIFORNIA - BERKELEY 2072
 STABLE ISOTOPE MEASUREMENTS OF CO2 & NO2 FOR SOLVE : CONSTRAINTS ON OBSERVED OZONE CHANGES DUE TO CH
 06/04/2001 - 04/30/2002 FY01: \$25,000 Total: \$25,000
Prin. Invest.: K A BOERING, NONE
Tech. Officer: ARC/R S HIPSKIN, ARC/C SCOFIELD
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 2 1523 UNIV OF CALIFORNIA - BERKELEY 2073
 BIOGEOCHEMICAL MARS-LIKE ENVIRONMENTS (BIOMES)
 09/17/2001 - 08/31/2002 FY01: \$250,000 Total: \$250,000
Prin. Invest.: J F BANFIELD
Tech. Officer: ARC/R GRAYMES, ARC/W DOLCI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 3 2026 UNIV OF CALIFORNIA - BERKELEY 2074
 A FUNDAMENTAL STUDY OF SMOLDERING COMBUSTION IN MICROGRAVITY
 03/14/1997 - 03/15/2002 FY01: \$105,500 Total: \$680,526
Prin. Invest.: A C FERNANDEZ-PELLO
Tech. Officer: GRC/D L URBAN
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2103 UNIV OF CALIFORNIA - BERKELEY 2075
 LOW EMISSION, HIGH PERFORMANCE GAS TURBINE ENGINES EXPERIMENT AND MODEL RESEARCH AND DEVELOPMENT
 03/04/1998 - 01/06/2002 FY01: \$127,603 Total: \$386,026
Prin. Invest.: R DIBBLE
Tech. Officer: GRC/R R TACINA, GRC/N S LIU
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2105 UNIV OF CALIFORNIA - BERKELEY 2076
 MICROGRAVITY EFFECTS ON NEAR - BUBBLE MICROSCALE TRANSPORT DURING BOILING OF BINARY FLUID MIXTURES
 02/26/1998 - 12/31/2001 FY01: \$0 Total: \$279,761
Prin. Invest.: V P CAREY
Tech. Officer: GRC/B J MOTIL
CASE Category: 13 - PHYSICS

NAG 3 2152 UNIV OF CALIFORNIA - BERKELEY 2077
 WEAKLY NONLINEAR DESCRIPTION OF PARAMETRIC INSTABILITIES
 06/09/1998 - 12/31/2002 FY01: \$119,500 Total: \$419,500
Prin. Invest.: E KNOBLOCK
Tech. Officer: GRC/J R SKARDA
CASE Category: 13 - PHYSICS

NAG 3 2221 UNIV OF CALIFORNIA - BERKELEY 2078
 NUMERICAL STUDY OF BUOYANCY AND DIFFERENTIAL DIFFUSION EFFECTS ON THE STRUCTURE AND DYNAMICS OF TRI
 12/29/1998 - 11/11/2001 FY01: \$65,224 Total: \$173,490
Prin. Invest.: J CHEN
Tech. Officer: GRC/K SACKSTEDER
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 696 UNIV OF CALIFORNIA - BERKELEY 2079
 A PROPOSAL TO FLY THE EUV/FUV SPECTROMETER ON ORFEUS FOR ASTRO-SPAS I & II
 12/18/1992 - 02/28/2001 FY01: \$0 Total: \$2,839,678
Prin. Invest.: M V HURWITZ
Tech. Officer: GSFC/W B JOHNSN
CASE Category: 13 - PHYSICS

NAG 5 959 UNIV OF CALIFORNIA - BERKELEY 2080
 ELECTRON REFLECTOMETER ADDITION TO THE MAGNETIC FIELDS INVESTIGATION ON THE MARS OBSERVER MISSION
 08/01/1987 - 06/30/2001 FY01: \$0 Total: \$1,778,915
Prin. Invest.: R P LIN, C F MCKEE
Tech. Officer: GSFC/M H ACUNA
CASE Category: 13 - PHYSICS

NAG 5 3280 UNIV OF CALIFORNIA - BERKELEY 2081
 HIGH RESOLUTION OBSERVATIONS FROM SPACE: NEW INSIGHTS INTO DARK MATTER AND GALAXY FORMATION
 07/03/1996 - 07/14/2000 FY01: \$0 Total: \$406,700
Prin. Invest.: T BROADHURST
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 3499 UNIV OF CALIFORNIA - BERKELEY 2082
 COSMOLOGICAL STUDIES OF THE COSMIC MICROWAVE BACKG
 11/27/1996 - 11/30/2001 FY01: \$0 Total: \$335,762
Prin. Invest.: M I DAVIS
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 3500 UNIV OF CALIFORNIA - BERKELEY 2083
 ADDING THE MARS '96 GAMMA-RAY BURST EXPERIMENT TO RY NETWORK
 11/27/1996 - 11/30/2001 FY01: \$37,650 Total: \$176,650
Prin. Invest.: K C HURLEY
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 3556 UNIV OF CALIFORNIA - BERKELEY 2084
 A MULTI-WAVELENGTH STUDY OF A COMPLETE SAMPLE OF N
 01/04/1997 - 12/14/2001 FY01: \$134,000 Total: \$636,000
Prin. Invest.: A V FILIPPENKO
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 3596 UNIV OF CALIFORNIA - BERKELEY 2085
 MISSION OPERATIONS AND DATA ANALYSIS FOR THE FAST AURORAL
 SNAPSHOT EXPLORER (FAST) MISSION
 01/25/1997 - 03/14/2002 FY01: \$756,500 Total: \$11,913,500
Prin. Invest.: C W CARLSON
Tech. Officer: GSFC/R F PFAFF, JR.
CASE Category: 12 - CHEMISTRY

NAG 5 3913 UNIV OF CALIFORNIA - BERKELEY 2086
 PHOTOCATHODE, MICROCHANNEL PLATE AND DELAY LINE TE D UV-VIS-
 IBLE DETECTOR SYSTEMS
 02/21/1997 - 06/14/2001 FY01: \$0 Total: \$785,100
Prin. Invest.: D H SIEGMUND
Tech. Officer: GSFC/H HASAN
CASE Category: 11 - ASTRONOMY

NAG 5 3916 UNIV OF CALIFORNIA - BERKELEY 2087
 DEVELOPMENT OF A RADIO TOMOGRAPHY MISSION FOR INVE 'S MAGNE-
 TOSPHERE
 02/21/1997 - 08/14/2000 FY01: \$0 Total: \$160,000
Prin. Invest.: F S MOZER
Tech. Officer: GSFC/R HOWARD
CASE Category: 13 - PHYSICS

NAG 5 3941 UNIV OF CALIFORNIA - BERKELEY 2088
 DEVELOPMENT OF DATA ANALYSIS, COMPRESSION AND VISU LARGE DATA
 SETS IN ASTROPHYSICS AND COSMOLOGY
 03/03/1997 - 02/28/2001 FY01: \$0 Total: \$423,000
Prin. Invest.: G SMOOT
Tech. Officer: GSFC/J BREDEKAMP
CASE Category: 22 - COMPUTER SCIENCE

NAG 5 4194 UNIV OF CALIFORNIA - BERKELEY 2089
 SILICON DIFFRACTION GRATINGS FOR ULTRAVIOLET APPLI
 03/25/1997 - 03/31/2002 FY01: \$96,000 Total: \$468,848
Prin. Invest.: D V HURWITZ
Tech. Officer: GSFC/H HASAN
CASE Category: 11 - ASTRONOMY

NAG 5 4202 UNIV OF CALIFORNIA - BERKELEY 2090
 JOVIAN RING SYSTEM
 03/17/1997 - 03/31/2001 FY01: \$0 Total: \$111,000
Prin. Invest.: D DE PATER
Tech. Officer: GSFC/W HUEBNER
CASE Category: 11 - ASTRONOMY

NAG 5 4454 UNIV OF CALIFORNIA - BERKELEY 2091
 BALLOON-BORNE OBSERVATIONS OF THE ANISOTROPY OF TH KGROUND
 ON ANGULAR SCALES OF 0.2 TO 40 DEGREES
 06/16/1997 - 01/31/2001 FY01: \$0 Total: \$450,000
Prin. Invest.: D L RICHARD
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 - ASTRONOMY

NAG 5 4521 UNIV OF CALIFORNIA - BERKELEY 2092
 CARBON AND SILICON CARBIDE CLUSTERS AND THEIR RELA DUST/
 LABORATORY INVESTIGATION OF THE UNIDENTIFIE
 05/08/1997 - 04/30/2000 FY01: \$0 Total: \$460,000
Prin. Invest.: D J SAYKALLY
Tech. Officer: GSFC/G STRINGFELLOW
CASE Category: 11 - ASTRONOMY

NAG 5 4884 UNIV OF CALIFORNIA - BERKELEY 2093
 PAH EMISSION BANDS IN SELECTED PNE
 07/28/1997 - 07/31/2000 FY01: -\$1 Total: \$74,999
Prin. Invest.: M COHEN
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 4898 UNIV OF CALIFORNIA - BERKELEY 2094
 KINETIC ANALYSIS OF LANGMUIR WAVE PACKETS IN THE E
 06/20/1997 - 06/30/2000 FY01: -\$10 Total: \$125,990
Prin. Invest.: D E ERGUN
Tech. Officer: GSFC/D EVANS
CASE Category: 13 - PHYSICS

NAG 5 4979 UNIV OF CALIFORNIA - BERKELEY 2095
 MARS/TITAN/MOON SOLAR WIND INTERACTIONS
 07/09/1997 - 07/14/2000 FY01: \$0 Total: \$50,000
Prin. Invest.: D G LUHMANN
Tech. Officer: GSFC/S HOWARD
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 4992 UNIV OF CALIFORNIA - BERKELEY 2096
 HISTORICAL STUDIES ON EXTRATERRESTRIAL MATERIALS
 06/27/1997 - 12/31/2001 FY01: \$160,000 Total: \$832,000
Prin. Invest.: D NISHIZUMI
Tech. Officer: GSFC/J F BOYCE
CASE Category: 12 - CHEMISTRY

NAG 5 5102 UNIV OF CALIFORNIA - BERKELEY 2097
 ASTROPHYSICAL GAMMA-RAY SPECTROSCOPY WITH THE HIGH RESOLU-
 TION GAMMA-RAY (HIREGS)
 02/11/1997 - 10/31/2000 FY01: \$0 Total: \$1,492,600
Prin. Invest.: R W LIN
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/B A MERRITT
CASE Category: 13 - PHYSICS

NAG 5 5146 **UNIV OF CALIFORNIA - BERKELEY** **2098**
 DEVELOPMENT OF GAS MICROSTRUCTURE DETECTORS (GMSD) FOR
 GAMMA-RAY TELESCOPES
 07/02/1997 - 07/02/2001 FY01: \$0 Total: \$248,130
Prin. Invest.: C HAILEY
Tech. Officer: GSFC/H NEEDLEMAN
CASE Category: 13 - PHYSICS

NAG 5 5197 **UNIV OF CALIFORNIA - BERKELEY** **2099**
 PECASE PROGRAM FUNDING FOR THE FIRST YEAR OF RESEARCH;
 SELECTED
 05/21/1998 - 05/31/2001 FY01: \$0 Total: \$100,000
Prin. Invest.: M V HURWITZ
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 - PHYSICS

NAG 5 5213 **UNIV OF CALIFORNIA - BERKELEY** **2100**
 FUNDING FOR PHASE A OF THE CHIPS PROJECT P. I. - DR. M HURWITZ
 10/08/1998 - 10/31/2003 FY01: \$5,041,228 Total: \$8,777,808
Prin. Invest.: M HURWITZ
Tech. Officer: GSFC/D PIERCE
CASE Category: 13 - PHYSICS

NAG 5 5231 **UNIV OF CALIFORNIA - BERKELEY** **2101**
 TECHNOLOGY DEVELOPMENT FOR THE EXTREMELY-HEAVY GALACTIC
 COSMIC-RAY COMPOSITION OBSERVER (ECC0)
 05/17/1999 - 11/30/2003 FY01: \$100,000 Total: \$719,900
Prin. Invest.: A J WESTPHAL
Tech. Officer: GSFC/B A MERRITT
CASE Category: 13 - PHYSICS

NAG 5 5285 **UNIV OF CALIFORNIA - BERKELEY** **2102**
 DEVELOPMENT OF GERMANIUM DETECTORS WITH LESS THAN 3D SPATIAL
 RESOLUTION FOR NUCLEAR GAMMA-RAY ASTRO
 06/12/2000 - 06/07/2002 FY01: \$195,000 Total: \$373,500
Prin. Invest.: R P LIN
Tech. Officer: WFF/B MERRITT
CASE Category: 13 - PHYSICS

NAG 5 5312 **UNIV OF CALIFORNIA - BERKELEY** **2103**
 SOUNDING ROCKET EXPERIMENT TO EXPLORE ELECTRODYNAMICS
 COUPLING PULSATIONS IN THE CUSP
 02/06/2001 - 02/05/2003 FY01: \$42,000 Total: \$42,000
Prin. Invest.: G T DELORY
Tech. Officer: GSFC/J C BRINTON
CASE Category: 13 - PHYSICS

NAG 5 6103 **UNIV OF CALIFORNIA - BERKELEY** **2104**
 NEW DIRECTIONS IN COMETARY SPECTROSCOPY
 07/24/1997 - 07/31/2001 FY01: \$0 Total: \$83,000
Prin. Invest.: D SPINRAD
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 - ASTRONOMY

NAG 5 6551 **UNIV OF CALIFORNIA - BERKELEY** **2105**
 ORIGIN AND EVOLUTION OF WHITE DWARF STARS: THE EARLY YEARS
 (LTSA)
 11/21/1997 - 11/30/2001 FY01: \$106,000 Total: \$389,900
Prin. Invest.: S VENNES
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 6552 **UNIV OF CALIFORNIA - BERKELEY** **2106**
 FOREGROUND ANALYSIS & REMOVAL FOR FUTURE CMB EXPERIMENTS
 (LTSA)
 11/21/1997 - 11/30/2001 FY01: \$109,700 Total: \$426,800
Prin. Invest.: G F SMOOT
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 6593 **UNIV OF CALIFORNIA - BERKELEY** **2107**
 LAND-USE AND LAND-COVER CHANGE IN SONORA, MEXICO
 11/18/1997 - 11/14/2000 FY01: \$0 Total: \$215,069
Prin. Invest.: T L BENNING
Tech. Officer: GSFC/A C JANETOS
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 5 6748 **UNIV OF CALIFORNIA - BERKELEY** **2108**
 DETERMINATION OF THE PROPERTIES OF HE IN THE LOCAL
 INTERSTELLAR MEDIUM FROM THE EUVE ALL-SKY SURVEY
 01/12/1998 - 12/31/2000 FY01: \$0 Total: \$65,555
Prin. Invest.: B FLYNN
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 6890 **UNIV OF CALIFORNIA - BERKELEY** **2109**
 VLA MONITORING OF JUPITER IN 3-D AT $\lambda = 6-90$ CM: 1981 - 1996
 01/21/1998 - 12/31/2001 FY01: \$0 Total: \$190,439
Prin. Invest.: I DE PATER
Tech. Officer: GSFC/J HILLMAN
CASE Category: 11 - ASTRONOMY

NAG 5 6928 **UNIV OF CALIFORNIA - BERKELEY** **2110**
 ANALYSIS OF DATA FROM THE 3-D PLASMA AND ENERGETIC PARTICLE
 EXPERIMENT ON THE GGS WIND SPACECRAFT
 02/04/1998 - 01/31/2002 FY01: \$0 Total: \$2,408,000
Prin. Invest.: R P LIN
Tech. Officer: GSFC/K OBILVIE
CASE Category: 13 - PHYSICS

NAG 5 7173 **UNIV OF CALIFORNIA - BERKELEY** **2111**
 AN ISOTOPIC APPROACH FOR DETERMINING THE INDUSTRIAL FRACTION
 OF THE TOTAL CH₃BR SOURCE TO THE A
 03/24/1998 - 02/28/2002 FY01: \$0 Total: \$210,000
Prin. Invest.: A GOLDSTEIN
Tech. Officer: GSFC/P DECOLA
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7265 **UNIV OF CALIFORNIA - BERKELEY** **2112**
 GALACTIC BLACK HOLES AND POSITRON ANNIHILATION RADIATION
 04/29/1998 - 11/30/2000 FY01: \$0 Total: \$102,000
Prin. Invest.: D M SMITH
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 7311 **UNIV OF CALIFORNIA - BERKELEY** **2113**
 A STUDY OF CIRCUMSTELLAR GAS IN BETA PICTURE LIKE PROTOPLANETARY
 DISKS
 04/22/1998 - 04/30/2001 FY01: \$0 Total: \$30,000
Prin. Invest.: B Y WELSH
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 7343 UNIV OF CALIFORNIA - BERKELEY 2114
 IDENTIFYING SGR1900+14, THE THIRD SOFT GAMMA REPEATER, WITH ASCA
 05/07/1998 - 05/14/2000 FY01: -\$3 Total: \$20,397
Prin. Invest.: K C HURLEY
Tech. Officer: GSFC/J SWANK
CASE Category: 11 - ASTRONOMY

NAG 5 7356 UNIV OF CALIFORNIA - BERKELEY 2115
 EXTENSION OF "SCIENCE INFORMATION INFRASTRUCTURE" GRANT NAG5-2875. CONTINUED DEVELOPMENT AND DISSEMINATION
 05/21/1998 - 01/31/2001 FY01: \$0 Total: \$450,000
Prin. Invest.: I HAWKINS
Tech. Officer: GSFC/A F HASLER
CASE Category: 11 - ASTRONOMY

NAG 5 7457 UNIV OF CALIFORNIA - BERKELEY 2116
 CARBON IN THE UNIVERSE: PAHs AND CLUSTERS
 09/18/1998 - 06/30/2001 FY01: \$0 Total: \$335,940
Prin. Invest.: R SAYKALLY
Tech. Officer: GSFC/M MEYER
CASE Category: 99 - MULTI INTERDISCIPLINARY, OTHER

NAG 5 7580 UNIV OF CALIFORNIA - BERKELEY 2117
 "SEISMIC HAZARD ASSESSMENT OF THE HAYWARD FAULT, CALIFORNIA, FROM GPS AND INSAR MEASUREMENTS" (SEISMIC HAZARD ASSESSMENT OF THE HAYWARD FAULT, CALIFORNIA, FROM GPS AND INSAR MEASUREMENTS)
 08/04/1998 - 07/31/2002 FY01: \$37,000 Total: \$224,000
Prin. Invest.: R BURGMANN, NONE
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 7615 UNIV OF CALIFORNIA - BERKELEY 2118
 ADVANCE THE STATE OF THE ART IN MICROCHANNEL PLATE TECHNOLOGY TO SIGNIFICANTLY IMPROVE DETECTION OF NEUTRONS
 08/24/1998 - 08/31/2002 FY01: \$0 Total: \$265,206
Prin. Invest.: D SIEGMUND
Tech. Officer: GSFC/F S HERRERO
CASE Category: 99 - MULTI INTERDISCIPLINARY, OTHER

NAG 5 7755 UNIV OF CALIFORNIA - BERKELEY 2119
 DIRECT IMMERSION PROCESS FOR MCP PERFORMANCE IMPROVEMENTS
 12/08/1998 - 12/31/2001 FY01: \$100,000 Total: \$293,258
Prin. Invest.: D EDELSTEIN
Tech. Officer: GSFC/H HASAN
CASE Category: 11 - ASTRONOMY

NAG 5 7833 UNIV OF CALIFORNIA - BERKELEY 2120
 STUDIES OF DUST EMISSION AS MEASURED BY DIRBE AND IRAS ADP 98
 12/14/1998 - 12/14/2001 FY01: \$87,776 Total: \$234,369
Prin. Invest.: M DAVIS
Tech. Officer: GSFC/R K OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 7929 UNIV OF CALIFORNIA - BERKELEY 2121
 INFLUENCE OF NONEQUILIBRIUM IONIZATION ON TEMPERATURE AND EMISSION MEASUREMENT DIAGNOSTICS
 12/14/1998 - 12/14/2001 FY01: \$0 Total: \$116,700
Prin. Invest.: D T WOODS
Tech. Officer: GSFC/J GURMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 7936 UNIV OF CALIFORNIA - BERKELEY 2122
 PROBING THE MORPHOLOGY, DYNAMICS AND INTERFACES OF THE INTERSTELLAR MEDIUM (LTS A 98)
 12/23/1998 - 12/31/2001 FY01: \$81,000 Total: \$230,000
Prin. Invest.: M COHEN
Prin. Invest.: NONE
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 7951 UNIV OF CALIFORNIA - BERKELEY 2123
 CMES AND SOLAR MAGNETIC FIELD EVOLUTION: A SOHO GI PROPOSAL
 12/21/1998 - 12/31/2001 FY01: \$82,400 Total: \$248,800
Prin. Invest.: J G LUHMANN
Tech. Officer: GSFC/J LING
CASE Category: 11 - ASTRONOMY

NAG 5 7961 UNIV OF CALIFORNIA - BERKELEY 2124
 A MULTI-INSTRUMENT INVESTIGATION OF WAVE AND PARTICLE PROCESSES IN THE SOLAR WIND AND AT THE BOW SHOCK
 12/23/1998 - 12/14/2000 FY01: -\$86 Total: \$62,514
Prin. Invest.: S D BALE
Tech. Officer: GSFC/J LING
CASE Category: 11 - ASTRONOMY

NAG 5 8078 UNIV OF CALIFORNIA - BERKELEY 2125
 016 LYSIS OF DATA FROM ELECTRIC FIELD EXPERIMENT ON POLAR 11
 01/22/1999 - 02/28/2002 FY01: \$382,000 Total: \$1,422,500
Prin. Invest.: F MOZER
Tech. Officer: GSFC/R HOFFMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 8098 UNIV OF CALIFORNIA - BERKELEY 2126
 THE MAGNETIC FIELDS OF T TAURI STARS
 02/04/1999 - 02/14/2002 FY01: \$40,000 Total: \$115,000
Prin. Invest.: C M JOHNS-KRULL
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8206 UNIV OF CALIFORNIA - BERKELEY 2127
 RXTE SEARCH FOR LONG-LIVED AFTERFLOWS FROM GAMMA RAY BURSTS
 02/11/1999 - 02/14/2000 FY01: -\$4 Total: \$4,121
Prin. Invest.: K C HURLEY
Tech. Officer: GSFC/J SWANK
CASE Category: 11 - ASTRONOMY

NAG 5 8209 UNIV OF CALIFORNIA - BERKELEY 2128
 ACCRETION ONTO T TAURI STARS (ADP 98)
 02/25/1999 - 02/28/2001 FY01: -\$3 Total: \$123,697
Prin. Invest.: C M JOHNS-KRULL
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8262 UNIV OF CALIFORNIA - BERKELEY 2129
 THE PRIMORDIAL UNIVERSE
 02/18/1999 - 08/31/2000 FY01: -\$1,638 Total: \$23,058
Prin. Invest.: J SILK
Tech. Officer: GSFC/H SMITH
CASE Category: 11 - ASTRONOMY

NAG 5 8410 **UNIV OF CALIFORNIA - BERKELEY** **2130**
 ANNUAL MEETING OF THE NATIONAL CONFERENCE OF BLACK PHYSICS STUDENTS
 03/15/1999 - 02/29/2000 FY01: -\$1 Total: \$82,999
Prin. Invest.: G BASRI
Tech. Officer: GSFC/D MENCHAN
CASE Category: 13 - PHYSICS

NAG 5 8468 **UNIV OF CALIFORNIA - BERKELEY** **2131**
 THE PHYSICS OF ACTIVE REGIONS
 05/04/1999 - 04/30/2002 FY01: \$119,300 Total: \$293,850
Prin. Invest.: G H FISHER
Tech. Officer: GSFC/W WAGNER
CASE Category: 11 - ASTRONOMY

NAG 5 8489 **UNIV OF CALIFORNIA - BERKELEY** **2132**
 IMPLEMENTATION OF ALGORITHMS FOR HIGH SPEED AUTONOMOUS CCD DATAREDUCTION
 05/03/1999 - 09/30/2000 FY01: -\$10,534 Total: \$20,866
Prin. Invest.: D L BUZASI
Tech. Officer: GSFC/J BREDEKAMP
CASE Category: 29 - MATH/COMPUTER SCI, OTHER

NAG 5 8510 **UNIV OF CALIFORNIA - BERKELEY** **2133**
 EVALUATING MODEL PREDICTIONS OF CO₂ & WATER VAPOR EXCHANGE WITH FLUX MEASUREMENTS IN A PONDEROSA
 06/02/1999 - 06/30/2001 FY01: \$0 Total: \$84,090
Prin. Invest.: D BALDOCCHI
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8667 **UNIV OF CALIFORNIA - BERKELEY** **2134**
 AN ADVANCED PHOTON COUNTING UV IMAGING DETECTOR
 07/08/1999 - 07/14/2002 FY01: \$0 Total: \$299,600
Prin. Invest.: O H SIEGMUND
Tech. Officer: GSFC/G MUCKLOW
CASE Category: 11 - ASTRONOMY

NAG 5 8737 **UNIV OF CALIFORNIA - BERKELEY** **2135**
 THE ROLE OF MULTI-SCALE LAND SURFACE HETEROGENEITY IN PRECIPITATION RECYCLING AND LAND ATMOSPHERE
 08/17/1999 - 08/14/2002 FY01: \$40,000 Total: \$120,000
Prin. Invest.: X LIANG
Tech. Officer: GSFC/P T HOUSER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8753 **UNIV OF CALIFORNIA - BERKELEY** **2136**
 FLUXNET: UNIFYING A GLOBAL ARRAY OF TOWER FLUX NETWORKS FOR VALIDATING EOS TERRESTRIAL CARBON, WATER
 08/12/1999 - 12/31/2001 FY01: \$238,599 Total: \$552,574
Prin. Invest.: D BALDOCCHI
Tech. Officer: GSFC/D STARR
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 8861 **UNIV OF CALIFORNIA - BERKELEY** **2137**
 DETECTING EXTRASOLAR PLANETS
 10/07/1999 - 06/30/2002 FY01: \$126,000 Total: \$466,247
Prin. Invest.: D W MARCY
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8962 **UNIV OF CALIFORNIA - BERKELEY** **2138**
 FUSE SPECTROSCOPY OF HOT POST-AGB STARS IN GLOBULAR CLUSTERS - FUSE
 01/24/2000 - 03/31/2001 FY01: -\$31,540 Total: \$60
Prin. Invest.: W V DIXON
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 8984 **UNIV OF CALIFORNIA - BERKELEY** **2139**
 CORONAL HEATING DURING STELLAR FLARES & THE SEARCH FOR PROTON BEAMS - FUSE
 02/03/2000 - 01/31/2002 FY01: \$0 Total: \$63,300
Prin. Invest.: G H FISHER
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 9091 **UNIV OF CALIFORNIA - BERKELEY** **2140**
 RESEARCH IN FUV INTERFEROMETRIC SPECTROSCOPY III
 02/17/2000 - 02/14/2002 FY01: \$200,000 Total: \$294,200
Prin. Invest.: J EDELSTEIN
Tech. Officer: GSFC/P CRANE
CASE Category: 11 - ASTRONOMY

NAG 5 9115 **UNIV OF CALIFORNIA - BERKELEY** **2141**
 PHASE-A AND BRIDGE PHASE STUDY OF STEREO/WAVES ACCOMMODATION
 03/02/2000 - 12/31/2001 FY01: \$110,925 Total: \$191,725
Prin. Invest.: S BALE
Tech. Officer: GSFC/M L KAISER
CASE Category: 11 - ASTRONOMY

NAG 5 9126 **UNIV OF CALIFORNIA - BERKELEY** **2142**
 ANALYSIS OF ASCA, BEPOSAX, AND RXTE DATA ON GAMMA-RAY BURSTS AND SOFT GAMMA REPEATERS - ADP 99
 03/14/2000 - 03/14/2001 FY01: \$0 Total: \$100,000
Prin. Invest.: K H HURLEY
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9130 **UNIV OF CALIFORNIA - BERKELEY** **2143**
 CORONAL STRUCTURE IN THE RS CVN BINARY AR Lacertae ADP99
 02/28/2000 - 02/28/2002 FY01: \$0 Total: \$35,000
Prin. Invest.: O H SIEGMUND
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9149 **UNIV OF CALIFORNIA - BERKELEY** **2144**
 ADVANCED MCP UV VISIBLE DETECTOR SYSTEMS
 03/03/2000 - 03/14/2002 FY01: \$200,000 Total: \$250,000
Prin. Invest.: O SIEGMUND
Tech. Officer: GSFC/P CRANE
CASE Category: 11 - ASTRONOMY

NAG 5 9210 **UNIV OF CALIFORNIA - BERKELEY** **2145**
 SWIFT PHASE B AND C/D
 03/10/2000 - 09/30/2001 FY01: \$75,000 Total: \$135,000
Prin. Invest.: K HURLEY
Tech. Officer: GSFC/N GEHRELS
CASE Category: 11 - ASTRONOMY

NAG 5 9231 UNIV OF CALIFORNIA - BERKELEY 2146
 DEVELOPMENT OF A LONG-TERM INVENTORY OF FIRE BURNE D AREAS &
 EMISSIONS OF NORTH AMERICA'S BOREAL AN
 03/22/2000 - 04/30/2002 FY01: \$43,344 Total: \$113,749
Prin. Invest.: P GONG
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9260 UNIV OF CALIFORNIA - BERKELEY 2147
 AN EXPERIMENTAL INVESTIGATION OF THE REACTION CHEM ISTRY OF
 ORGANIC MOLECULES IN COMETARY IMPACT
 03/17/2000 - 03/14/2001 FY01: \$0 Total: \$84,780
Prin. Invest.: J BLANK*Prin. Invest.:* NONE
Tech. Officer: GSFC/M MEYER
CASE Category: 12 - CHEMISTRY

NAG 5 9305 UNIV OF CALIFORNIA - BERKELEY 2148
 DATA CALIBRATION AND SCIENTIFIC DEFINITION OF THE NEAR, LUNAR
 PROSPECTORAND MGS MAGNETOMETERS
 03/20/2000 - 02/28/2002 FY01: \$0 Total: \$65,641
Prin. Invest.: R LIN
Tech. Officer: GSFC/M H ACUNA
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 5 9317 UNIV OF CALIFORNIA - BERKELEY 2149
 ENHANCEMENT OF THE GLOBAL SYSTEMS SCIENCE STUDENT GUIDE
 SERIES FOR THE DIGITAL EARTH INITIATIVE
 03/22/2000 - 03/31/2002 FY01: \$119,958 Total: \$219,956
Prin. Invest.: A GOULD
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9318 UNIV OF CALIFORNIA - BERKELEY 2150
 ASTROSEISMOLOGY WITH THE WIRE SATELLITE: TAKING AD VANTAGE OF
 A UNIQUE OPPORTUNITY
 03/22/2000 - 09/30/2000 FY01: -\$30,329 Total: \$14,671
Prin. Invest.: D BUZASI
Tech. Officer: GSFC/P CRANE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9384 UNIV OF CALIFORNIA - BERKELEY 2151
 MOLECULAR CARBON IN THE GALAXY
 04/04/2000 - 03/31/2002 FY01: \$160,000 Total: \$310,720
Prin. Invest.: R J SAYKALLY
Tech. Officer: GSFC/G STRINGFELLOW
CASE Category: 13 - PHYSICS

NAG 5 9398 UNIV OF CALIFORNIA - BERKELEY 2152
 BALLOON BORNE OBSERVATIONS OF THE POLARIZATION ANI SOTROPY
 OF THE COSMIC MICROWAVE BACKGROUND RADIAT
 04/06/2000 - 03/31/2002 FY01: \$164,478 Total: \$336,178
Prin. Invest.: P L RICHARDS
Tech. Officer: GSFC/G STRINGFELLOW
CASE Category: 11 - ASTRONOMY

NAG 5 9503 UNIV OF CALIFORNIA - BERKELEY 2153
 ADDING NEAR TO THE 3RD INTERPLANETARY NETWORK OF GAMMA-RAY
 BURST DETECTORS
 04/24/2000 - 04/30/2001 FY01: \$0 Total: \$65,000
Prin. Invest.: K C HURLEY
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 - ASTRONOMY

NAG 5 9514 UNIV OF CALIFORNIA - BERKELEY 2154
 BIOSPHERE-ATMOSPHERE INTERACTIONS
 04/25/2000 - 04/30/2002 FY01: \$310,000 Total: \$516,667
Prin. Invest.: I FUNG
Tech. Officer: GSFC/D WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9523 UNIV OF CALIFORNIA - BERKELEY 2155
 QTHE FEASABILITY OF DETECTING ELECTRIC FIELDS ON THE MARS 03
 PROMISE ELEEELECTRICAL SUBPACKAGE
 07/31/2000 - 07/31/2001 FY01: \$0 Total: \$27,000
Prin. Invest.: G T DELORY*Prin. Invest.:* NONE
Tech. Officer: GSFC/W M FARRELL
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9626 UNIV OF CALIFORNIA - BERKELEY 2156
 NEW SOLAR MAX GRANT STUDIES OF GEOTAIL ELECTRIC FIELDS &
 PLASMA FIELDS
 05/22/2000 - 09/30/2001 FY01: \$50,000 Total: \$95,034
Prin. Invest.: F MOZER
Tech. Officer: GSFC/D FAIRFIELD
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 9629 UNIV OF CALIFORNIA - BERKELEY 2157
 CASSANDRA: A STORM BASED MODEL FOR FORECASTING THE INITIATION
 & RUNOUT OF DEBRIS FLOWS
 05/30/2000 - 05/31/2001 FY01: \$25,000 Total: \$100,000
Prin. Invest.: W E DIETRICH
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 9650 UNIV OF CALIFORNIA - BERKELEY 2158
 NEW ISTP SOLAR MAX GRANT: DUAL SPACECRAFT OBSERVA TIONS OF
 DAYSIDE RECONNECTION
 05/30/2000 - 05/31/2002 FY01: \$0 Total: \$70,000
Prin. Invest.: C CARLSON
Tech. Officer: GSFC/M ACUNA
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 9701 UNIV OF CALIFORNIA - BERKELEY 2159
 MAINTAINING AND EXPANDING THE 3RD INTERPLANETARY NETWORK
 06/15/2000 - 06/14/2001 FY01: \$0 Total: \$5,000
Prin. Invest.: K C HURLEY
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 - ASTRONOMY

NAG 5 9864 UNIV OF CALIFORNIA - BERKELEY 2160
 GEOLOGICAL ANALYSIS OF MARTIAN CRUSTAL MAGNETIC AMOMALIES
 08/25/2000 - 08/14/2002 FY01: \$12,853 Total: \$21,653
Prin. Invest.: M RICHARDS
Tech. Officer: GSFC/P TAYLOR
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 9909 UNIV OF CALIFORNIA - BERKELEY 2161
 SOLIDS IN EARLY SOLAR SYSTEM
 08/31/2000 - 08/31/2001 FY01: \$0 Total: \$45,000
Prin. Invest.: F H SHU
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 9926 UNIV OF CALIFORNIA - BERKELEY 2162
 DATA SYSTEM PREPARATIONS FOR LONG-BASELINE INFRA RED
 09/14/2000 - 08/31/2001 FY01: \$0 Total: \$25,000
Prin. Invest.: C TOWNES
Tech. Officer: GSFC/B DANCHI
CASE Category: 11 - ASTRONOMY

NAG 5 9973 UNIV OF CALIFORNIA - BERKELEY 2163
 DISTRIBUTION OF ARGON IN THE DAYSIDE LUNAR ATMOSPHERE - FUSE
 09/14/2000 - 09/14/2001 FY01: \$0 Total: \$20,700
Prin. Invest.: B C FLYNN
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 9975 UNIV OF CALIFORNIA - BERKELEY 2164
 CLUSTER ELECTRIC FIELD DATA ANALYSIS
 09/14/2000 - 03/31/2002 FY01: \$483,773 Total: \$783,773
Prin. Invest.: F MOZER
Tech. Officer: GSFC/M GOLDSTEIN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 10131 UNIV OF CALIFORNIA - BERKELEY 2165
 CLUSTER ION COMPOSITION (CIS) EXPERIMENT
 12/27/2000 - 12/31/2001 FY01: \$850,000 Total: \$850,000
Prin. Invest.: G K PARKS
Tech. Officer: GSFC/M GOLDSTEIN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 10300 UNIV OF CALIFORNIA - BERKELEY 2166
 ELECTRON DYNAMICS IS SHOCK RAMPS
 01/30/2001 - 01/14/2002 FY01: \$73,800 Total: \$73,800
Prin. Invest.: L MUSCHIETTI
Tech. Officer: GSFC/J SHARBER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10314 UNIV OF CALIFORNIA - BERKELEY 2167
 THE SCIENCE EDUCATION GATEWAY II
 02/01/2001 - 01/31/2002 FY01: \$150,000 Total: \$150,000
Prin. Invest.: I HAWKINS
Tech. Officer: GSFC/P E HUNTER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10393 UNIV OF CALIFORNIA - BERKELEY 2168
 A SEARCH FOR TRACE ELEMENTS IN ULTRAMASSIVE WHITE DWARF
 PHOTOSPHERES(FUSE 00)
 02/12/2001 - 02/14/2002 FY01: \$39,800 Total: \$39,800
Prin. Invest.: J DUPIUS
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 10411 UNIV OF CALIFORNIA - BERKELEY 2169
 DEVELOPMENT OF CALORIMETRIC AEROGEL FOR CAPTURE OF
 INTERPLANETARY & INTERSTELLAR GRAINS IN LOW EARTH
 04/10/2001 - 04/15/2002 FY01: \$52,500 Total: \$52,500
Prin. Invest.: A WESTPHAL
Tech. Officer: GSFC/B BETTS
CASE Category: 11 - ASTRONOMY

NAG 5 10428 UNIV OF CALIFORNIA - BERKELEY 2170
 3-D PLASMA AND ENERGETIC PARTICLES INVESTIGATION ON THE WIND
 SPACECRAFT
 02/23/2001 - 02/28/2002 FY01: \$788,000 Total: \$788,000
Prin. Invest.: R P LIN
Tech. Officer: GSFC/K OGILVIE
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 10433 UNIV OF CALIFORNIA - BERKELEY 2171
 CHONDRITIC METEORITES AND PLANETESIMIALS
 02/16/2001 - 01/31/2002 FY01: \$25,000 Total: \$25,000
Prin. Invest.: F SHU
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 10466 UNIV OF CALIFORNIA - BERKELEY 2172
 UVI DATA ANALYSIS
 03/08/2001 - 03/14/2002 FY01: \$448,000 Total: \$448,000
Prin. Invest.: G PARKS
Tech. Officer: GSFC/R HOFFMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 10471 UNIV OF CALIFORNIA - BERKELEY 2173
 DUAL-SPACECRAFT INVESTIGATION OF SUBSTANTIAL SOLAR WIND
 PLASMA ENTRY ACROSS THE TAIL FLANK MAGENTOPA
 02/27/2001 - 02/28/2002 FY01: \$76,500 Total: \$76,500
Prin. Invest.: T PHAN
Tech. Officer: GSFC/J SPANN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10657 UNIV OF CALIFORNIA - BERKELEY 2174
 THE STRUCTURE AND DYNAMICS OF GIANT HERBIG-HARO FLOWS
 03/20/2001 - 03/31/2002 FY01: \$35,000 Total: \$35,000
Prin. Invest.: W WELCH
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 10664 UNIV OF CALIFORNIA - BERKELEY 2175
 NUMERICAL SIMULATION OF 3D COMPACT EDDIES IN A PROTOPLANETARY
 ACCRETION DISK; THEIR ROBUSTNESS AND
 03/21/2001 - 02/28/2002 FY01: \$50,000 Total: \$50,000
Prin. Invest.: P MARCUS
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 10673 UNIV OF CALIFORNIA - BERKELEY 2176
 ESTIMATING SOIL MOISTURE CHANGES USING RADARSAT & ITS APPLICATION
 IN HYDROLOGICAL MODELING
 03/27/2001 - 03/14/2002 FY01: \$57,988 Total: \$57,988
Prin. Invest.: X LIANG
Prin. Invest.: NONE
Tech. Officer: GSFC/W ABDALATI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10710 UNIV OF CALIFORNIA - BERKELEY 2177
 BEPOSAX GRBS (ADP 2000)
 04/23/2001 - 04/30/2002 FY01: \$33,880 Total: \$33,880
Prin. Invest.: K C HURLEY
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 10713 UNIV OF CALIFORNIA - BERKELEY 2178
 ADVANCED ADIABATIC DEMAGNETIZATION REFRIGERATORS FOR CONTINUOUS COOLING FROM 10K TO 50MK
 04/20/2001 - 04/30/2002 FY01: \$57,190 Total: \$57,190
Prin. Invest.: P L RICHARDS
Tech. Officer: GSFC/P J SHIRRON
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 10715 UNIV OF CALIFORNIA - BERKELEY 2179
 MATADOR IDPU & DCE TESTS
 04/12/2001 - 03/14/2002 FY01: \$124,000 Total: \$124,000
Prin. Invest.: D T DELORY
Tech. Officer: GSFC/W M FARREL
CASE Category: 13 - PHYSICS

NAG 5 10800 UNIV OF CALIFORNIA - BERKELEY 2180
 CONCEPT STUDY FOR THE "STUDY OF GALACTIC PLASMA EVOLUTION WITH SPEAR" (SPEAR) MISSION AO-99-OSS-0
 04/30/2001 - 04/30/2002 FY01: \$251,179 Total: \$251,179
Prin. Invest.: D EDELSTEIN, NONE
Tech. Officer: GSFC/J R BYRD
CASE Category: 11 - ASTRONOMY

NAG 5 10803 UNIV OF CALIFORNIA - BERKELEY 2181
 CONCEPT STUDY FOR THE "THE HEAVY NUCLEI EXPLORER" (HNX) MISSION AO-99-OSS-05
 04/30/2001 - 04/30/2002 FY01: \$57,700 Total: \$57,700
Prin. Invest.: D WESTPHAL
Tech. Officer: GSFC/J R BYRD
CASE Category: 11 - ASTRONOMY

NAG 5 10839 UNIV OF CALIFORNIA - BERKELEY 2182
 3-D MHD TURBULENT DYNAMOS (ATP 2000)
 05/10/2001 - 06/30/2002 FY01: \$80,000 Total: \$80,000
Prin. Invest.: G H FISHER
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 10851 UNIV OF CALIFORNIA - BERKELEY 2183
 CONTINUING THE CHALLENGE OF EUV ASTRONOMY: CURRENT ANALYSIS AND PROSPECTS FOR THE FUTURE
 04/30/2001 - 04/30/2002 FY01: \$30,003 Total: \$30,003
Prin. Invest.: J DUPUIS
Tech. Officer: GSFC/D GOLOMBEK
CASE Category: 11 - ASTRONOMY

NAG 5 10866 UNIV OF CALIFORNIA - BERKELEY 2184
 ENRICHMENTS OF 3HE IN PLANETARY NEBULAE
 05/08/2001 - 05/14/2002 FY01: \$24,000 Total: \$24,000
Prin. Invest.: I ROTH
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 10925 UNIV OF CALIFORNIA - BERKELEY 2185
 CORONAL MODELS AND APPLICATIONS FOR LWS
 05/11/2001 - 05/14/2002 FY01: \$80,534 Total: \$80,534
Prin. Invest.: J G LUHMANN
Tech. Officer: GSFC/W WAGNER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 11055 UNIV OF CALIFORNIA - BERKELEY 2186
 EFFECT OF IMF BY COMPONENT ON THERMOSPHERIC COMPOSITION
 06/18/2001 - 06/30/2002 FY01: \$100,399 Total: \$100,399
Prin. Invest.: T IMMEL
Tech. Officer: GSFC/M MELLOTT
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 11179 UNIV OF CALIFORNIA - BERKELEY 2187
 ORIGINS OF RECENT EROSIONAL FEATURES ON MARS: QUANTITATIVE ANALYSIS OF MOC AND MOLA DATA, PHYSICAL
 08/14/2001 - 08/14/2004 FY01: \$55,000 Total: \$55,000
Prin. Invest.: W DIETRICH
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 11200 UNIV OF CALIFORNIA - BERKELEY 2188
 INFERENCE OF REGIONAL CARBON EXCHANGE PROCESSES & THEIR VARIABILITY SINCE 1980
 08/10/2001 - 08/14/2004 FY01: \$287,077 Total: \$287,077
Prin. Invest.: I FUNG
Tech. Officer: GSFC/D WICKLAND
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 6 10 UNIV OF CALIFORNIA - BERKELEY 2189
 SOUNDING ROCKET RESEARCH PROGRAM
 11/01/1980 - 12/31/2001 FY01: \$0 Total: \$3,619,476
Prin. Invest.: C W CARLSON, F S MOZER, K A ANDERSON
Tech. Officer: GSFC/W B JOHNSON, GSFC/R H PLESS
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1432 UNIV OF CALIFORNIA - BERKELEY 2190
 R/S SUPERFLUID GYROSCOPES FOR SPACE
 03/02/1998 - 01/31/2003 FY01: \$118,750 Total: \$405,750
Prin. Invest.: R E PACKARD
Tech. Officer: MSFC/D HUBBARD
CASE Category: 13 - PHYSICS

NAG 8 1458 UNIV OF CALIFORNIA - BERKELEY 2191
 R/S EXPLOITING THE TEMPERATURE DEPENDENCE OF MAGNETIC SUSCEPTIBILITY TO CONTROL CONVECTION
 02/15/1998 - 01/31/2002 FY01: \$44,000 Total: \$281,000
Prin. Invest.: J W EVANS, F SZOFRAN
Tech. Officer: MSFC/P M DOTY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 9 1051 UNIV OF CALIFORNIA - BERKELEY 2192
 GENESIS DISCOVERY MISSION
 08/19/1998 - 05/31/2002 FY01: \$17,000 Total: \$85,600
Prin. Invest.: K NISHIZUMI
Tech. Officer: JSC/K E CYR
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAS 1 99053 UNIV OF CALIFORNIA - BERKELEY 2193
 NEXT GENERATION TECHNOLOGIES FOR THE IN SITU DETECTION OF NOX RADICALS AND RESERVOIRS FROM AIRCRAFT
 02/10/1999 - 02/09/2002 FY01: \$198,436 Total: \$762,187
Prin. Invest.: R COHEN
Tech. Officer: LARC/J HILL
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAS 5 00133 UNIV OF CALIFORNIA - BERKELEY 2194
 STEREO PHASE A CONCEPT STUDY FOR INSITU MEASUREMENTS OF
 PARTICLES & CME TRANSIENTS(IMPACT)
 02/22/2000 - 07/30/2006 FY01: \$656,000 Total: \$1,705,985
Prin. Invest.: J LUHMAN, E STONE
Tech. Officer: GSFC/A HARPER
CASE Category: 13 - PHYSICS

NAS 5 30801 UNIV OF CALIFORNIA - BERKELEY 2195
 ISTP PROJECT'S ELECTRIC FIELDS & WAVES
 07/02/1990 - 12/31/2000 FY01: \$0 Total: \$6,450,700
Prin. Invest.: F MOZER
Tech. Officer: GSFC/L CHRISTENSEN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAS 5 96092 UNIV OF CALIFORNIA - BERKELEY 2196
 EOS-BIOSPHERE ATMOSPHERIC INTERACTIONS STUDY
 10/11/1996 - 06/30/2000 FY01: \$0 Total: \$325,000
Prin. Invest.: P MATSON
Tech. Officer: GSFC/P SELLERS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAS 5 98033 UNIV OF CALIFORNIA - BERKELEY 2197
 PHASE A CONCEPT STUDY FOR HESSI INVESTIGATION
 11/19/1997 - 10/19/2003 FY01: \$6,037,214 Total: \$42,946,214
Prin. Invest.: R P LIN
Tech. Officer: GSFC/F SNOW
CASE Category: 11 - ASTRONOMY

NAS 5 99242 UNIV OF CALIFORNIA - BERKELEY 2198
 FAST FLIGHT OPERATIONS
 10/01/1999 - 09/30/2001 FY01: \$194,992 Total: \$489,892
Prin. Invest.: C W CARLSON
Tech. Officer: GSFC/R PFAFF
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 2 142 UNIV OF CALIFORNIA - BERKELEY 2199
 DETECTION IDENTIFICATION AND PRECISE LOCATION OF INFRARED
 OBJECTS
 07/01/1981 - 05/31/2001 FY01: \$0 Total: \$1,439,572
Prin. Invest.: C E HEILES, M COHEN
Tech. Officer: ARC/D GOORVITCH
CASE Category: 11 - ASTRONOMY

NCC 2 909 UNIV OF CALIFORNIA - BERKELEY 2200
 HUMAN PERFORMANCE IN COORDINATED HAPTIC-VISUAL VIRTUAL ENVI-
 RONMENTS
 06/26/1995 - 02/29/2000 FY01: \$0 Total: \$984,336
Prin. Invest.: H KAZERAONI
Tech. Officer: ARC/S R ELLIS
CASE Category: 46 - MECHANICAL ENGR

NCC 2 1080 UNIV OF CALIFORNIA - BERKELEY 2201
 THE CENTER FOR STAR FORMATION STUDIES
 01/25/1999 - 02/14/2001 FY01: \$10,767 Total: \$387,972
Prin. Invest.: F H SHU
Tech. Officer: ARC/D J HOLLENBACH, ARC/P CASSEN
CASE Category: 11 - ASTRONOMY

NCC 2 1125 UNIV OF CALIFORNIA - BERKELEY 2202
 THE EXTRACTION OF POINT SOURCES FROM THE NIRS SPEC TROMETER
 ABOARD THE INFRARED TELESCOPE IN SPACE
 06/14/1999 - 05/31/2002 FY01: \$0 Total: \$28,000
Prin. Invest.: M COHEN
Tech. Officer: ARC/D GOORVITCH
CASE Category: 11 - ASTRONOMY

NCC 2 1171 UNIV OF CALIFORNIA - BERKELEY 2203
 3DOF HAPTIC SIMULATION AND PSYCHOPHYSICAL EXPERIMENTS
 04/11/2000 - 11/30/2001 FY01: \$0 Total: \$120,000
Prin. Invest.: H KAZEROONI
Tech. Officer: ARC/S R ELLIS
CASE Category: 46 - MECHANICAL ENGR

NCC 2 1255 UNIV OF CALIFORNIA - BERKELEY 2204
 2-DOF HAPTIC SIMULATION & PSYCHOPHYSICAL EXPERIMENTS
 05/03/2001 - 03/31/2002 FY01: \$70,000 Total: \$70,000
Prin. Invest.: H KAZEROONI
Tech. Officer: ARC/B ADELSTEIN, ARC/S R ELLIS
CASE Category: 46 - MECHANICAL ENGR

NCC 2 5289 UNIV OF CALIFORNIA - BERKELEY 2205
 THE EVOLUTION OF DUST IN THE MULTIPHASE INTERSTELLAR MEDIUM
 08/13/1998 - 09/30/2000 FY01: \$0 Total: \$132,599
Prin. Invest.: C F MCKEE
Tech. Officer: ARC/D J HOLLENBACH
CASE Category: 11 - ASTRONOMY

NCC 2 5334 UNIV OF CALIFORNIA - BERKELEY 2206
 A STUDY OF THE STATIC & DYNAMIC AERODYNAMICS CHARACTERISTICS
 OF BLUNT PLANETARY PROBES
 07/19/1999 - 07/14/2001 FY01: \$0 Total: \$80,000
Prin. Invest.: G T CHAPMAN, M BROWN, A RAMSEY
Tech. Officer: ARC/P F WERCINSKI, ARC/T C TAM
CASE Category: 41 - AERONAUTICAL ENGR

NCC 2 5388 UNIV OF CALIFORNIA - BERKELEY 2207
 TOW-TANK STUDIES OF HELICOPTER VORTEX WAKE
 07/14/2000 - 06/30/2002 FY01: \$40,000 Total: \$65,000
Prin. Invest.: O SAVAS
Tech. Officer: ARC/F CARADONNA, ARC/C TUNG
CASE Category: 41 - AERONAUTICAL ENGR

NCC 2 5416 UNIV OF CALIFORNIA - BERKELEY 2208
 MASSIVE STAR FORMATION
 01/26/2001 - 02/14/2002 FY01: \$58,000 Total: \$58,000
Prin. Invest.: F H SHU
Tech. Officer: ARC/D J HOLLENBACH, ARC/G LAUGHLIN
CASE Category: 11 - ASTRONOMY

NCC 2 5455 UNIV OF CALIFORNIA - BERKELEY 2209
 LONG TERM EXTREME ENVIRONMENT AND MARS ANALOG STUDIES IN
 THE ATACAMA DESERT
 08/09/2001 - 07/31/2002 FY01: \$40,000 Total: \$40,000
Prin. Invest.: R ADMUNDSON
Tech. Officer: ARC/C MCKAY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NCC 2 5461 UNIV OF CALIFORNIA - BERKELEY 2210
 TOW-TANK STUDIES OF AIRCRAFT WAKE VORTEX INSTABILITY
 09/26/2001 - 08/31/2002 FY01: \$30,000 Total: \$30,000
Prin. Invest.: O SAVAS
Tech. Officer: ARC/D A DURSTON
CASE Category: 41 - AERONAUTICAL ENGR

NCC 3 478 UNIV OF CALIFORNIA - BERKELEY 2211
 FLAMMABILITY DIAGRAMS OF COMBUSTIBLE MATERIALS IN MICROGRAVITY
 05/29/1996 - 05/31/2000 FY01: -\$2,658 Total: \$217,442
Prin. Invest.: A C FERNANDEZ-PELLO
Tech. Officer: GRC/H D ROSS
CASE Category: 46 - MECHANICAL ENGR

NCC 3 803 UNIV OF CALIFORNIA - BERKELEY 2212
 FLAMMIBILITY DIAGRAMS OF COMBUSTIBLE MATERIALS IN MICROGRAVITY
 05/31/2000 - 04/30/2004 FY01: \$74,000 Total: \$127,000
Prin. Invest.: D FERNANDEZ-PELLO
Tech. Officer: GRC/H D ROSS
CASE Category: 46 - MECHANICAL ENGR

NCC 3 833 UNIV OF CALIFORNIA - BERKELEY 2213
 MICROGRAVITY PRODUCTION OF NANOPARTICLES OF NOVEL MATERIALS USING PLASMA SYNBTHESIS
 12/13/2000 - 10/31/2004 FY01: \$80,000 Total: \$80,000
Prin. Invest.: M FRENKLACH
Tech. Officer: GRC/N D PILTCH
CASE Category: 49 - ENGINEERING, OTHER

NCC 3 874 UNIV OF CALIFORNIA - BERKELEY 2214
 TWO DIMENSIONAL SMOLDERING & ITS TRANSITON TO FLAM ING IN MICROGRAVITY
 03/14/2001 - 11/30/2004 FY01: \$120,000 Total: \$120,000
Prin. Invest.: C F PELLO
Tech. Officer: GRC/D L URBAN
CASE Category: 49 - ENGINEERING, OTHER

NCC 3 896 UNIV OF CALIFORNIA - BERKELEY 2215
 CARBON MONOXIDE AND SOOT FORMATION IN INVERSE DIFF USION FLAMES
 06/06/2001 - 04/30/2003 FY01: \$30,000 Total: \$30,000
Prin. Invest.: C FERNANDEZ-PELLO
Tech. Officer: GRC/K R SACKSTEDER
CASE Category: 49 - ENGINEERING, OTHER

NCC 5 138 UNIV OF CALIFORNIA - BERKELEY 2216
 EXTENDED EUVE MISSION
 08/21/1996 - 10/01/2001 FY01: \$300,000 Total: \$8,784,582
Prin. Invest.: R MALINA
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NCC 5 253 UNIV OF CALIFORNIA - BERKELEY 2217
 THE SUN-EARTH CONNECTION EDUCATION FORUM.
 10/30/1997 - 11/14/2001 FY01: \$1,391,318 Total: \$3,844,651
Prin. Invest.: I HAWKINS
Tech. Officer: GSFC/J THIEMAN
CASE Category: 13 - PHYSICS

NCC 5 352 UNIV OF CALIFORNIA - BERKELEY 2218
 SOIL BIOGEOCHEMISTRY OF CARBON, NUTRIENTS, & TRACE GASES IN THE AMAZON REGION OF BRAZIL: FIELD & MOD
 07/28/1998 - 12/31/2001 FY01: \$21,617 Total: \$218,967
Prin. Invest.: W SILVER
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 5 492 UNIV OF CALIFORNIA - BERKELEY 2219
 EO-1 & LANDSAT IMAGERY FOR MONITORING CALIFORNIA'S CONIFER FOREST & HARDWOOD RANGELAND
 04/12/2000 - 12/31/2001 FY01: \$67,129 Total: \$125,722
Prin. Invest.: P GONG
Tech. Officer: GSFC/S G UNGAR
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 2 52233 UNIV OF CALIFORNIA - BERKELEY 2220
 CHARACTERICATION OF MICROBIAL DIVERISTY IN YELLOWS TONE FUMARoles: THE SEARCH FOR PRIMITIVE LIFE IN.
 08/26/1997 - 07/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: N R PACE
Tech. Officer: ARC/D J DES MARAIS
CASE Category: 54 - ENVIRONMENTAL BIOLOGY

NGT 2 52258 UNIV OF CALIFORNIA - BERKELEY 2221
 HIGH-RESOLUTION GROUND-BASED MAPPING OF TITAN'S SU RFACE & HAZE LAYER
 08/11/1999 - 07/31/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: I DEPATER
Tech. Officer: ARC/C P MCKAY
CASE Category: 11 - ASTRONOMY

NGT 2 52259 UNIV OF CALIFORNIA - BERKELEY 2222
 A SURGICAL AUGMENTED REALITY VISUALIZATION SYSTEM
 09/07/1999 - 08/31/2001 FY01: \$0 Total: \$44,000
Prin. Invest.: S S SASTRY
Tech. Officer: ARC/J D SMITH/E M HOLTON
CASE Category: 22 - COMPUTER SCIENCE

NGT 2 52278 UNIV OF CALIFORNIA - BERKELEY 2223
 COMPUTATIONAL INVESTIGATIONS OF MASSIVE STAR FORMATION
 06/19/2001 - 06/14/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: C F MCKEE
Tech. Officer: ARC/D J HOLLENBACH
CASE Category: 11 - ASTRONOMY

NGT 5 83 UNIV OF CALIFORNIA - BERKELEY 2224
 SUPERFLUID ANALOG OF THE DC-SQUID FOR MEASURING ABSOLUTE ROTATION (STUDENT - RAYMOND SIMONDS)
 05/18/1999 - 06/30/2001 FY01: \$0 Total: \$44,000
Prin. Invest.: J C DAVIS
Prin. Invest.: NONE
Tech. Officer: GSFC/M S BURRELL
CASE Category: 13 - PHYSICS

NGT 5 30044 UNIV OF CALIFORNIA - BERKELEY 2225
 THE RELATIONSHIP BETWEEN SOIL AGE, LAND USE AND C VALLEY OF CALIFORNIA
 12/12/1996 - 08/31/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: D G AMUNDSON
Tech. Officer: GSFC/G ASRAR
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30071 UNIV OF CALIFORNIA - BERKELEY 2226
 PREDICTING WHEN VEGETATION CHANGE MATTERS TO ECOSY ONING
 09/09/1997 - 08/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: M FIRESTONE
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30110 UNIV OF CALIFORNIA - BERKELEY 2227
 A STUDY OF MEV TERRESTRIAL X-RAY BURSTS
 05/11/1998 - 07/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: R P LIN/MILLAN
Tech. Officer: GSFC/D EVANS
CASE Category: 11 - ASTRONOMY

NGT 5 30141 UNIV OF CALIFORNIA - BERKELEY 2228
 PHOSPHORUS CYCLING OF LAND USE GRADIENT ON TWO SOIL
 TEXTURES IN A LOWLAND TROPICAL FOREST
 08/27/1998 - 02/28/2002 FY01: \$0 Total: \$66,000
Prin. Invest.: W L SILVER, MCGRODDY
Prin. Invest.: NONE
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30183 UNIV OF CALIFORNIA - BERKELEY 2229
 MEASUREMENT & MODELING OF CARBON, WATER & ENERGY OVER A
 CALIFORNIA OAK SAVANNA: LINKING THE BIOPHYS
 08/19/1999 - 08/31/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: T L BENNING
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30219 UNIV OF CALIFORNIA - BERKELEY 2230
 ATMOSPHERIC NO2: LASER-INDUCED FLUORESCENCE DETECT ION AT
 THE PART PER TRILLION LEVEL FROM AIRCRAFT
 08/24/1999 - 08/31/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: R C COHEN
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTALSCI, OTHER

NGT 5 30351 UNIV OF CALIFORNIA - BERKELEY 2231
 THE IMPLICATIONS OF MICROBIAL DECOMPOSITION ON THE DISTRIBUTION
 OF STABLEC & N ISOTOPES IN TERRESTRIA
 08/24/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: I CHAPELA
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30361 UNIV OF CALIFORNIA - BERKELEY 2232
 INTEGRATING REMOTELY SENSED AFFORESTATION POTENTIAL WITH
 CREDIT TRADING & TECHNICAL LEARNING IN MOD
 08/24/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: D M KAMMEN
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30380 UNIV OF CALIFORNIA - BERKELEY 2233
 THE GLOBAL IRON GEOCHEMICAL CYCLE: CHARACTERIZING AEOLIAN
 IRON SOURCES TO THE OCEAN AND THE EFFECT
 08/13/2001 - 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: D DE PAOLO
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30383 UNIV OF CALIFORNIA - BERKELEY 2234
 GLOBAL TRENDS IN SOIL ORGANIC CARBON RESIDENCE TIME/JONATHAN
 SANDERMAN
 08/13/2001 - 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: R AMUNDSON
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30403 UNIV OF CALIFORNIA - BERKELEY 2235
 ECOSYSTEM LEVEL IMPACTS OF CLIMATE WARMING & LOSS OF BIODIV-
 ERSITY IN MONTANE MEADOW HABITAT/STUDENT
 08/14/2001 - 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: J HARTE
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30424 UNIV OF CALIFORNIA - BERKELEY 2236
 ANOMALOUS FRACTIONATION OF TROPOSPHERIC CO2 AS A POTENTIAL
 TRACER OF BIOSPHEREPRODUCTIVITY
 09/07/2001 - 09/14/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: K BOERING
Tech. Officer: GSFC/_ WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 50048 UNIV OF CALIFORNIA - BERKELEY 2237
 CONTINUOUS WAVE OPERATION OF FAR-INFRARED GERMANIUM S
 07/17/1997 - 07/31/2000 FY01: -\$100 Total: \$65,900
Prin. Invest.: E HALLER
Tech. Officer: GSFC/A NURRIDIN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50061 UNIV OF CALIFORNIA - BERKELEY 2238
 ION OUTFLOW FROM THE AURORAL IONOSPHERE
 08/04/1997 - 12/31/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: CHARLES
Tech. Officer: HQ/A NURRIDIN
CASE Category: 41 - AERONAUTICAL ENGR

NGT 5 50066 UNIV OF CALIFORNIA - BERKELEY 2239
 DEVELOPMENT OF A SUPERFLUID HELIUM-4 GYROSCOPE
 09/05/1997 - 06/30/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: D PACKARD
Tech. Officer: HQ/A NURRIDIN
CASE Category: 41 - AERONAUTICAL ENGR

NGT 5 50157 UNIV OF CALIFORNIA - BERKELEY 2240
 THE COMPOSITION OF THE ACTINIDES IN GALACTIC COSMI
 09/11/1997 - 09/30/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: P PRICE
Tech. Officer: HQ/A NURRIDIN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50188 UNIV OF CALIFORNIA - BERKELEY 2241
 DIAMONDS IN GIANT PLANETS? EXPERIMENTS ON "PLANETARY ICES" AT
 HIGH PRESSURES AND TEMPERATURES
 05/27/1998 - 12/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: R JEANLOZ
Prin. Invest.: NONE
Tech. Officer: HQ/A NURRIDIN
CASE Category: 13 - PHYSICS

NGT 5 50189 UNIV OF CALIFORNIA - BERKELEY 2242
 DETERMINATION OF COSMOLOGICAL PARAMETERS THROUGH C OSMIC
 MICROWAVE BACKGROUND OBSERVATIONS WITH THE
 05/27/1998 - 06/30/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: G SMOOT
Tech. Officer: HQ/A NURRIDIN
CASE Category: 13 - PHYSICS

NGT 5 50195 UNIV OF CALIFORNIA - BERKELEY 2243
 BALLOON-BORNE OBSERVATIONS OF THE ANISOTROPY OF TH E COSMIC
 MICROWAVE BACKGROUND ON ANGULAR SCALES O
 06/04/1998 - 06/30/2002 FY01: \$0 Total: \$66,000
Prin. Invest.: P L RICHARDS
Tech. Officer: HQ/A NURRIDIN
CASE Category: 13 - PHYSICS

NGT 5 50196 UNIV OF CALIFORNIA - BERKELEY 2244
 FRAGMENTATION IN COLLAPSING NON-ISOTHERMAL MOLECUL AR
 CLOUDS
 06/04/1998 - 09/30/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: C F MCKEE
Tech. Officer: HQ/A NURRIDIN
CASE Category: 13 - PHYSICS

NGT 5 50216 UNIV OF CALIFORNIA - BERKELEY 2245
 ABOVEGROUND AND BELOWGROUND PLANT SPECIES FUNCTION AL
 TRAITS AND THEIR RELATION TO ECOSYSTEM FUNCT
 09/15/1998 - 08/31/2001 FY01: \$0 Total: \$58,667
Prin. Invest.: F S CHAPIN, 111
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 50223 UNIV OF CALIFORNIA - BERKELEY 2246
 REGIONAL CHANGES IN EXTREME EVENT FREQUENCIES WITH IN THE
 UNITED STATES (STUDENT: DIANA DERUBERTIS)
 09/29/1998 - 08/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: O E GRANGER, D DERUBERTIS
Tech. Officer: HQ/A NURRIDIN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 50245 UNIV OF CALIFORNIA - BERKELEY 2247
 INFRARED SPECTROSCOPY OF STAR FORMATION IN SUPER STAR CLUS-
 TERS WITH KECK/NIRSPEC (STUDENT: ANDRE
 06/02/1999 - 06/30/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: J GRAHAM
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50253 UNIV OF CALIFORNIA - BERKELEY 2248
 X-RAY SPECTROSCOPY OF EVOLVED SUPERNOVA REMNANTS
 06/07/1999 - 06/30/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: C F MCKEE
Tech. Officer: GSFC/L SMITH
CASE Category: 11 - ASTRONOMY

NGT 5 50331 UNIV OF CALIFORNIA - BERKELEY 2249
 EFFECTS OF OXIC-ANOXIC DYNAMICS ON METHANE EFFLUX & STABLE
 ISOTOPE COMPOSITIONIN HUMID TROPICA
 08/17/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: W SILVER
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 50338 UNIV OF CALIFORNIA - BERKELEY 2250
 LUNAR MAGNETIC AND ELECTRIC FIELDS(STUDENT: JASPER HALEKAS)
 05/04/2001 - 06/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: R LIN
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50342 UNIV OF CALIFORNIA - BERKELEY 2251
 DETERMINATION OF EVOLUTIONARY PARAMETERS IN POPULA TIONS OF
 THERMOPHIC ARCHAEA/STUDENT: RACHEL WHITA
 05/14/2001 - 06/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: J TAYLOR
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50365 UNIV OF CALIFORNIA - BERKELEY 2252
 AN ELECTRON EDM MEASUREMENT UTILIZING A SLOW-BEAM ATOMIC
 FOUNTAIN/STUDENT: JASON AMINI
 06/12/2001 - 06/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: S FREEDMAN
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 1 2215 UNIV OF CALIFORNIA - DAVIS 2253
 AERO-MECHANICAL DESIGN METHODOLOGY FOR SUBSONIC CIVIL
 TRANSPORT HIGH-LIFT SYSTEMS
 07/20/1999 - 12/31/2000 FY01: \$1 Total: \$54,972
Prin. Invest.: C P VAN-DAM
Tech. Officer: LARC/P A GELHAUSEN
CASE Category: 41 - AERONAUTICAL ENGR

NAG 1 01045 UNIV OF CALIFORNIA - DAVIS 2254
 FURTHER DEVELOPMENT IN AERO-MECHANICAL DESIGN METHODOLO-
 GIES FOR HIGH-LIFT SYSTEMS
 04/11/2001 - 04/10/2002 FY01: \$77,593 Total: \$77,593
Prin. Invest.: C P VAN DAM
Tech. Officer: LARC/P A GELHAUSEN
CASE Category: 41 - AERONAUTICAL ENGR

NAG 1 01116 UNIV OF CALIFORNIA - DAVIS 2255
 MODELING AND DESIGN ANALYSIS METHODOLOGY FOR TAYLORED
 COMPOSITE AIRCRAFT STRUCTURES
 09/21/2001 - 01/20/2004 FY01: \$18,806 Total: \$18,806
Prin. Invest.: L W REHFIELD
Tech. Officer: LARC/D R AMBUR
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 2 944 UNIV OF CALIFORNIA - DAVIS 2256
 CNS CONTROL OF RHYTHMS & HOMEOSTASIS DURING SPACE FLIGHT
 12/21/1994 - 12/31/2000 FY01: \$0 Total: \$624,482
Prin. Invest.: C A FULLER
Tech. Officer: ARC/W E HINDS, ARC/C M WINGET
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 2 1019 UNIV OF CALIFORNIA - DAVIS 2257
 MICROGRAVITY EFFECTS ON DEVELOPING VESTIBULAR AFFE RENTS
 (NEUROLAB)
 01/22/1996 - 03/31/2001 FY01: \$0 Total: \$577,426
Prin. Invest.: B CHAPMAN
Tech. Officer: ARC/W E HINDS, ARC/C M WINGET
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 2 1216 **UNIV OF CALIFORNIA - DAVIS** **2258**
 TOWARDS REAL-TIME VECTOR FIELD VISUALIZATION FOR MULTISOURCE DATA USING HIERARCHIES
 05/04/1998 - 12/31/2000 FY01: \$0 Total: \$199,193
Prin. Invest.: B HAMANN
Tech. Officer: ARC/A VAZIRI, ARC/M G YAMASAKI
CASE Category: 22 - COMPUTER SCIENCE

NAG 2 1251 **UNIV OF CALIFORNIA - DAVIS** **2259**
 DENIAL OF SERVICE IN THE INFRASTRUCTURE
 08/19/1998 - 09/30/1999 FY01: \$0 Total: \$98,873
Prin. Invest.: M BISHOP
Tech. Officer: ARC/C M FALSETTI, ARC/B H WHITAKER
CASE Category: 22 - COMPUTER SCIENCE

NAG 2 1265 **UNIV OF CALIFORNIA - DAVIS** **2260**
 ADAPTATION OF RHESUS MACAQUES TO A HYPERDYNAMIC ENVIRONMENT
 09/14/1998 - 12/31/2000 FY01: \$0 Total: \$757,146
Prin. Invest.: C A FULLER
Tech. Officer: ARC/R E GRINDELAND, ARC/K L SOUZA
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 2 1404 **UNIV OF CALIFORNIA - DAVIS** **2261**
 EFFECTS OF GRAVITY ON INSECT CIRCADIAN RHYTHMICITY
 04/27/2000 - 06/30/2001 FY01: \$222,618 Total: \$419,569
Prin. Invest.: T M HOBAN-HIGGINS
Tech. Officer: ARC/R D MACELROY, ARC/M M AVERNER
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 2 1442 **UNIV OF CALIFORNIA - DAVIS** **2262**
 REMOTE AGRICULTURAL MONITORING HYPERSPECTRAL IMAGERY WITH AN UPDATED AERIAL VEHICLE
 09/27/2000 - 12/31/2000 FY01: \$0 Total: \$90,000
Prin. Invest.: S USTIN
Tech. Officer: ARC/S S WEGENER, ARC/R S HIPSKIN
CASE Category: 55 - AGRICULTURE

NAG 2 1451 **UNIV OF CALIFORNIA - DAVIS** **2263**
 EFFECTS OF HYPERGRAVITY ON RAT CIRCADIAN CLOCK GENES, REGULATION & EXPRESSION
 12/19/2000 - 12/14/2001 FY01: \$238,307 Total: \$238,307
Prin. Invest.: C A FULLER
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 2 1459 **UNIV OF CALIFORNIA - DAVIS** **2264**
 FIRST INTERNATIONAL CONFERENCE ON COMPUTATIONAL FLUID DYNAMICS
 03/05/2001 - 01/31/2002 FY01: \$25,000 Total: \$25,000
Prin. Invest.: J J CHATTOT
Tech. Officer: ARC/W R VAN DALSEM
CASE Category: 22 - COMPUTER SCIENCE

NAG 2 1494 **UNIV OF CALIFORNIA - DAVIS** **2265**
 EFFECTS OF THE HYPERGRAVITY ON EXPRESSION OF GENES INVOLVED IN REGULATION OF FEEDING
 07/05/2001 - 06/30/2002 FY01: \$88,698 Total: \$88,698
Prin. Invest.: B A HORWITZ
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 3 2153 **UNIV OF CALIFORNIA - DAVIS** **2266**
 EXPERIMENTAL STUDIES OF MULTIPHASE MATERIALS USING NUCLEAR MAGNETIC RESONANCE
 05/13/1998 - 03/08/2002 FY01: \$71,250 Total: \$242,250
Prin. Invest.: B L POWELL, S DUGAN, R PHILLIPS
Tech. Officer: GRC/F P CHIARAMONTE
CASE Category: 43 - CHEMICAL ENGR

NAG 5 3001 **UNIV OF CALIFORNIA - DAVIS** **2267**
 AIRBORNE LASER ALTIMETRIC MONITORING OF THE RAPID EVOLUTION OF TOPOGRAPHY IN LONGVALLEY, CALIF...
 07/14/1995 - 07/31/2000 FY01: \$0 Total: \$194,646
Prin. Invest.: J MINSTER
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 6440 **UNIV OF CALIFORNIA - DAVIS** **2268**
 EFFECT OF GRAVITY ON THE REGULATION OF CIRCADIAN RHYTHMS
 11/03/1997 - 06/30/2000 FY01: \$0 Total: \$118,910
Prin. Invest.: D MURAKAMI
Tech. Officer: GSFC/V SCHNEIDER
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 5 7216 **UNIV OF CALIFORNIA - DAVIS** **2269**
 USE OF HYPER-SPECTRAL IMAGERY TO IDENTIFY AND MAP LEAFY SPURGE INFESTATIONS AT THEODORE ROOSEVELT
 03/31/1998 - 03/31/2000 FY01: \$0 Total: \$115,123
Prin. Invest.: S L USTIN
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTALSCI, OTHER

NAG 5 7441 **UNIV OF CALIFORNIA - DAVIS** **2270**
 GEOMETRIC PARAMETERIZATION OF RAINFALL FIELDS
 06/02/1998 - 06/14/2002 FY01: \$0 Total: \$131,000
Prin. Invest.: C E PUENTE
Tech. Officer: GSFC/R W LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 8258 **UNIV OF CALIFORNIA - DAVIS** **2271**
 ION IMAGING STUDIES OF VUV PHOTODISSOCIATION OF COMPLEX PARENT MOLECULES
 02/17/1999 - 03/31/2002 FY01: \$81,364 Total: \$309,885
Prin. Invest.: W JACKSON
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 - ASTRONOMY

NAG 5 8391 **UNIV OF CALIFORNIA - DAVIS** **2272**
 X-RAY PROPERTIES OF DEEP-RADIO-SELECTED QUASARS (A DP98)
 03/05/1999 - 03/14/2002 FY01: \$0 Total: \$102,548
Prin. Invest.: R H BECKER
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8430 **UNIV OF CALIFORNIA - DAVIS** **2273**
 THE FORMATION OF GALAXY CLUSTERS (LTS 98)
 05/10/1999 - 05/14/2002 FY01: \$89,765 Total: \$269,295
Prin. Invest.: S STANFORD
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8586 UNIV OF CALIFORNIA - DAVIS 2274
 SUPPORT OF THE INTERNATIONAL CONGRESS MANAGING FOR
 ECOSYSTEM HEALTH, 15-20 AUGUST1999, SACRAMENTO
 06/28/1999 - 06/30/2000 FY01: \$0 Total: \$48,500
Prin. Invest.: C O QUALSET
Tech. Officer: GSFC/B W MEESON
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9025 UNIV OF CALIFORNIA - DAVIS 2275
 "ERROR CONTROL CODING TECHNIQUES FOR SPACE & SATEL LITE
 COMMUNICATIONS"
 02/09/2000 - 02/28/2001 FY01: \$0 Total: \$70,000
Prin. Invest.: S LIN, NONE
Tech. Officer: GSFC/W H MILLER
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 9360 UNIV OF CALIFORNIA - DAVIS 2276
 NEW EOS DATA PRODUCTS TO IMPROVE BIOGEOCHEMICAL ESTIMATES
 04/06/2000 - 04/30/2002 FY01: \$199,135 Total: \$375,960
Prin. Invest.: S USTIN
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9540 UNIV OF CALIFORNIA - DAVIS 2277
 X-RAY PROPERTIES OF DEEP-RADIO-SELECTED QUASARS (A DP98)
 05/02/2000 - 05/31/2002 FY01: \$0 Total: \$50,000
Prin. Invest.: N ARAV
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9897 UNIV OF CALIFORNIA - DAVIS 2278
 A JOINT DEEP XMM/AXAF SURVEY IN THE LYNX.3A FIELD
 09/06/2000 - 09/14/2001 FY01: \$0 Total: \$7,900
Prin. Invest.: S A STANFORD
Tech. Officer: GSFC/R F MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 9947 UNIV OF CALIFORNIA - DAVIS 2279
 X-RAYS FROM RADIO-LOUD BROAD ABSORPTION LINE QSOS
 09/06/2000 - 09/14/2002 FY01: \$15,000 Total: \$30,500
Prin. Invest.: R H BECKER
Tech. Officer: GSFC/R F MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10480 UNIV OF CALIFORNIA - DAVIS 2280
 ERROR CONTROL CODING TECHNIQUES FOR SPACE AND SATE LLITE
 COMMUNICATIONS
 02/27/2001 - 02/28/2002 FY01: \$70,000 Total: \$70,000
Prin. Invest.: S LIN
Tech. Officer: GSFC/P YEH
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 10591 UNIV OF CALIFORNIA - DAVIS 2281
 BIOGEOCHEMICAL CHARACTERIZATION OF LATE ARCHEAN FE NESTRATE
 MICROBIALITESFROM THEGAMOHAAN FORMATION
 03/20/2001 - 03/31/2002 FY01: \$89,200 Total: \$89,200
Prin. Invest.: D Y SUMNER
Tech. Officer: GSFC/M MEYER
CASE Category: 11 - ASTRONOMY

NAG 5 11098 UNIV OF CALIFORNIA - DAVIS 2282
 ANALYSIS & INTERPRETATION OF CMB DATA (LTSA 2000)
 07/12/2001 - 07/14/2002 FY01: \$76,646 Total: \$76,646
Prin. Invest.: L KNOX
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 11260 UNIV OF CALIFORNIA - DAVIS 2283
 WESTERN CENTER FOR ESTUARINE ECOSYSTEM INDICATOR RESEARCH
 08/20/2001 - 08/31/2005 FY01: \$76,055 Total: \$76,055
Prin. Invest.: S USTIN
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1143 UNIV OF CALIFORNIA - DAVIS 2284
 THE GLOBAL ATMOSPHERIC RESPONSE TO LOCALIZED LOW FREQUENCY
 FORCING
 05/24/1995 - 03/31/2001 FY01: \$0 Total: \$177,000
Prin. Invest.: T R NATHAN
Tech. Officer: MSFC/T L MILLER, MSFC/S H CHOW
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 9 1048 UNIV OF CALIFORNIA - DAVIS 2285
 MESOSCOPIC INSTRUMENTATION MINITURE FTIR FOR ENVIRONMENTAL
 MONITORING
 08/13/1998 - 08/04/2002 FY01: \$218,917 Total: \$401,700
Prin. Invest.: S D COLLINS
Tech. Officer: HQ/D L JAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG13 99023 UNIV OF CALIFORNIA - DAVIS 2286
 USING REMOTE SENSING TO MONITOR THE IMPACTS OF FLOOD-IRRIGA-
 TION OF MEADOWS IN EAST WALKER RIVER
 08/25/1999 - 11/01/2001 FY01: \$173,619 Total: \$345,192
Prin. Invest.: D W TATE
Tech. Officer: SSC/R MCKELLIP
CASE Category: 32 - GEOLOGICAL SCIENCE

NAS 5 31359 UNIV OF CALIFORNIA - DAVIS 2287
 EOS-BIOSPHERE-ATMOSPHERE INTERACTIONS STUDY
 11/05/1991 - 12/31/1999 FY01: \$0 Total: \$533,400
Prin. Invest.: S USTIN
Tech. Officer: GSFC/P SELLERS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 1 345 UNIV OF CALIFORNIA - DAVIS 2288
 DEVELOPMENT OF A DESIGN METHODOLOGY FOR RECONFIGUR ABLE
 FLIGHT CONTROL SYSTEMS
 07/06/1999 - 07/14/2000 FY01: \$1 Total: \$50,243
Prin. Invest.: R A HESS
Tech. Officer: GSFC/B J BACON
CASE Category: 41 - AERONAUTICAL ENGNR

NCC 1 01007 UNIV OF CALIFORNIA - DAVIS 2289
 SIMULATION OF FOREBODY FLOWS AT HIGH-ANGLE-OF- ATTACH
 DYNAMIC CONDITIONS
 12/27/2000 - 10/31/2001 FY01: \$55,752 Total: \$55,752
Prin. Invest.: C P VAN DAM
Tech. Officer: LARC/C M FREMAUX
CASE Category: 41 - AERONAUTICAL ENGNR

<p>NCC 2 1011 UNIV OF CALIFORNIA – DAVIS 2290 EFFICIENT PARALLEL ALGORITHMS FOR INVISCID & VISCO US FLOW SIMULATION 01/27/1998 – 01/31/2002 FY01: \$0 Total: \$215,662 <i>Prin. Invest.:</i> M HAFEZ, J CHATTAT <i>Tech. Officer:</i> ARC/D KWAK <i>CASE Category:</i> 41 – AERONAUTICAL ENGR</p>	<p>NCC 2 5387 UNIV OF CALIFORNIA – DAVIS 2298 DEVELOPMENT & APPLICATION OF A DATA MANAGEMENT TEC HNIQUE WITHIN A DISTRIBUTED COMPUTING ENVIRONMENT 06/23/2000 – 06/30/2001 FY01: \$35,000 Total: \$95,000 <i>Prin. Invest.:</i> M HAFEZ, J S DACLES-MARIANI <i>Tech. Officer:</i> ARC/D KWAK <i>CASE Category:</i> 22 – COMPUTER SCIENCE</p>
<p>NCC 2 1131 UNIV OF CALIFORNIA – DAVIS 2291 EYE MOVEMENT VISUAL PERCEPTION& CONTROL 07/23/1999 – 02/28/2002 FY01: \$12,222 Total: \$57,444 <i>Prin. Invest.:</i> R A HESS <i>Tech. Officer:</i> ARC/L S SROUE, ARC/B SWEET <i>CASE Category:</i> 41 – AERONAUTICAL ENGR</p>	<p>NCC 2 5406 UNIV OF CALIFORNIA – DAVIS 2299 PREDICTION OF THE AERODYNAMIC CHARACTERISTICS OF A HELICOPTER ROTOR AIRFOIL WITHACTIVELY-CONTROLLED 10/27/2000 – 10/31/2001 FY01: \$17,879 Total: \$17,879 <i>Prin. Invest.:</i> C P VANDAM <i>Tech. Officer:</i> ARC/M V FULTON, ARC/C TUNG <i>CASE Category:</i> 41 – AERONAUTICAL ENGR</p>
<p>NCC 2 1183 UNIV OF CALIFORNIA – DAVIS 2292 MODELING ROTORCRAFT INTERACTION WITH ATMOSPHERIC TURBULENCE IN LOW-SPEED AND HOVERING FLIGHT 06/07/2000 – 05/31/2002 FY01: \$32,700 Total: \$85,117 <i>Prin. Invest.:</i> R HESS <i>Tech. Officer:</i> ARC/M B TISCHER <i>CASE Category:</i> 41 – AERONAUTICAL ENGR</p>	<p>NCC 2 5425 UNIV OF CALIFORNIA – DAVIS 2300 COMPUTER AIDED FLIGHT SIMULATOR ASSESSMENT 03/09/2001 – 02/28/2002 FY01: \$30,870 Total: \$30,870 <i>Prin. Invest.:</i> R A <i>Tech. Officer:</i> ARC/D T TRAN, ARC/W B CLEVELAND <i>CASE Category:</i> 41 – AERONAUTICAL ENGR</p>
<p>NCC 2 1271 UNIV OF CALIFORNIA – DAVIS 2293 GRAVITATIONAL BIOLOGY: COMPARISON OF MAMMALIAN ADA PTATIONS TO GROUND-BASED MODELS 07/31/2001 – 06/30/2002 FY01: \$250,658 Total: \$250,658 <i>Prin. Invest.:</i> C A FULLER, D M MURAKAMI <i>Tech. Officer:</i> ARC/E M HOLTON, ARC/M M AVERNER <i>CASE Category:</i> 51 – BIOLOGY (EXCLUDING ENVIR)</p>	<p>NCC 2 5426 UNIV OF CALIFORNIA – DAVIS 2301 METACOMPUTATIONS & SIMULATIONS OF SEPARATED FLOWS WITH APPLICATIONS TO AEROSPACE & BIOFLUID DYNAMICS 03/08/2001 – 02/28/2002 FY01: \$90,000 Total: \$90,000 <i>Prin. Invest.:</i> M HAFEZ, J J CHATTOT <i>Tech. Officer:</i> ARC/D KWAK <i>CASE Category:</i> 29 – MATH/COMPUTER SCI, OTHER</p>
<p>NCC 2 5308 UNIV OF CALIFORNIA – DAVIS 2294 NUMERICAL SIMULATION OF TIME-DEPENDENT VISCOUS FLO WS ABOUT WIND TURBINES 02/23/1999 – 04/30/2001 FY01: \$0 Total: \$85,173 <i>Prin. Invest.:</i> C P VANDAM <i>Tech. Officer:</i> ARC/E N DUQUE <i>CASE Category:</i> 41 – AERONAUTICAL ENGR</p>	<p>NCC 2 5447 UNIV OF CALIFORNIA – DAVIS 2302 DATA COMPRESSION VIA WAVELETS 08/14/2001 – 07/31/2002 FY01: \$95,000 Total: \$95,000 <i>Prin. Invest.:</i> M HAFEZ <i>Tech. Officer:</i> ARC/D KWAK, ARC/C KIRIS <i>CASE Category:</i> 21 – MATHEMATICS</p>
<p>NCC 2 5313 UNIV OF CALIFORNIA – DAVIS 2295 DEVELOPING & VALIDATING ROTORCRAFT SIMULATION MODE LS 04/02/1999 – 12/31/2000 FY01: \$0 Total: \$58,981 <i>Prin. Invest.:</i> J DONGARRA <i>Tech. Officer:</i> ARC/S DAINI <i>CASE Category:</i> 22 – COMPUTER SCIENCE</p>	<p>NCC 3 353 UNIV OF CALIFORNIA – DAVIS 2303 ELECTROHYDRODYNAMIC POOLING IN REDUCED GRAVITY 06/29/1994 – 08/31/2002 FY01: \$0 Total: \$100,000 <i>Prin. Invest.:</i> B D SHAW <i>Tech. Officer:</i> GRC/F P CHIARAMONTE <i>CASE Category:</i> 46 – MECHANICAL ENGR</p>
<p>NCC 2 5343 UNIV OF CALIFORNIA – DAVIS 2296 EXPLORING THE BRDF POTENTIAL OF POLARIZED REFLECTANCE 08/11/1999 – 11/30/2000 FY01: \$0 Total: \$108,500 <i>Prin. Invest.:</i> S L USTIN <i>Tech. Officer:</i> ARC/V C VANDERBILT, ARC/E P CONDON <i>CASE Category:</i> 39 – ENVIRONMENTAL SCI, OTHER</p>	<p>NCC 3 477 UNIV OF CALIFORNIA – DAVIS 2304 COMBUSTION EXPERIMENTS IN REDUCED GRAVITY WITH TWO – COMPONENT MISCIBLE DROPLETS 05/21/1996 – 05/20/2001 FY01: \$0 Total: \$361,585 <i>Prin. Invest.:</i> B SHAW <i>Tech. Officer:</i> GRC/D DIETRICH <i>CASE Category:</i> 13 – PHYSICS</p>
<p>NCC 2 5369 UNIV OF CALIFORNIA – DAVIS 2297 DEVELOPMENTOF FLIGHT SIMULATOR FIDELITY ASSESSMENT TOOLS 03/21/2000 – 12/31/2000 FY01: \$0 Total: \$23,648 <i>Prin. Invest.:</i> R A HESS <i>Tech. Officer:</i> ARC/D TRAN <i>CASE Category:</i> 41 – AERONAUTICAL ENGR</p>	<p>NCC 3 668 UNIV OF CALIFORNIA – DAVIS 2305 THE IMPACT OF BUOYANCY AND FLAME STRUCTURE ON SOOT , RADIATION AND NOX EMISSIONS FROM A TURBULENT DI 02/12/1999 – 11/30/2002 FY01: \$89,117 Total: \$203,033 <i>Prin. Invest.:</i> I M KENNEDY <i>Tech. Officer:</i> GRC/K R SACKSTEDER <i>CASE Category:</i> 49 – ENGINEERING, OTHER</p>

NCC 3 683 UNIV OF CALIFORNIA - DAVIS 2306
 COMBUSTION OF HAN-BASED MONOPROPELLANT IN REDUCED GRAVITY
 03/08/1999 - 01/03/2003 FY01: \$103,250 Total: \$301,250
Prin. Invest.: B D SHAW
Tech. Officer: GRC/D L DIETRICH
CASE Category: 49 - ENGINEERING, OTHER

NCC 3 845 UNIV OF CALIFORNIA - DAVIS 2307
 FLAME PROPAGATION IN LOW INTENSITY TURBULENCE UNDER
 MICROGRAVITY CONDITIONS
 01/05/2001 - 11/30/2004 FY01: \$90,000 Total: \$90,000
Prin. Invest.: R C ALDREDGE
Tech. Officer: GRC/K R SACKSTEDER
CASE Category: 49 - ENGINEERING, OTHER

NCC 3 859 UNIV OF CALIFORNIA - DAVIS 2308
 MECHANISM OF CREEP OF CU-CR-NB ALLOYS MECHANISM OF CREEP OF
 CU-CR-NB ALLOYS
 02/08/2001 - 12/27/2001 FY01: \$30,000 Total: \$30,000
Prin. Invest.: J GIBELING
Tech. Officer: GRC/M NATHAL
CASE Category: 47 - METAL & MATERIALS ENGR

NCC 3 872 UNIV OF CALIFORNIA - DAVIS 2309
 ELECTRIC FIELD EFFECTS IN SELF-PROPAGATING HIGH TEMPERATURE
 COMBUSTION SYNTHESIS UNDER MICROGRAVITY
 03/19/2001 - 11/30/2004 FY01: \$100,000 Total: \$100,000
Prin. Invest.: Z A MUNIR
Tech. Officer: GRC/K R SACKSTEDER
CASE Category: 41 - AERONAUTICAL ENGR

NCC 3 890 UNIV OF CALIFORNIA - DAVIS 2310
 COMBUSTION EXPERIMENTS IN REDUCED GRAVITY WITH TWO
 COMPONENT MISCIBLE DROPLETS
 05/01/2001 - 02/28/2002 FY01: \$170,650 Total: \$170,650
Prin. Invest.: B D SHAW
Tech. Officer: GRC/D L DIETRICH
CASE Category: 49 - ENGINEERING, OTHER

NCC 4 120 UNIV OF CALIFORNIA - DAVIS 2311
 APPLICATION OF REMOTE INFRARED THERMOGRAPHY
 01/27/1999 - 02/25/2001 FY01: \$0 Total: \$58,597
Prin. Invest.: C P VAN DAM
Tech. Officer: DFRC/D BANKS
CASE Category: 41 - AERONAUTICAL ENGR

NCC 4 151 UNIV OF CALIFORNIA - DAVIS 2312
 SUPERSONIC FLIGHT EXPERIMENTATION USING INFRARED THERMO-
 GRAPHY
 01/30/2001 - 10/31/2001 FY01: \$26,799 Total: \$26,799
Prin. Invest.: C VAN DAM, NONE
Tech. Officer: DFRC/D W BANKS
CASE Category: 41 - AERONAUTICAL ENGR

NCC 5 287 UNIV OF CALIFORNIA - DAVIS 2313
 MICROFABRICATED QUADRUPOLE FOR A MINITURIZED MASS SPECTROM-
 ETHER
 01/06/1998 - 11/30/1999 FY01: -\$38 Total: \$30,247
Prin. Invest.: R SMITH
Tech. Officer: GSFC/D HARPOLD
CASE Category: 49 - ENGINEERING, OTHER

NGT 2 52238 UNIV OF CALIFORNIA - DAVIS 2314
 RELATIONSHIP BETWEEN DYNAMIC BAROREFLEX RESPONSE CHARACTER-
 ISTICS & STATIC BAROREFLEX FUNCTION IN...
 01/26/1998 - 09/30/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: P MOLE
Prin. Invest.: NONE
Tech. Officer: ARC/J E GREENLEAF
CASE Category: 56 - MEDICL

NGT 5 30073 UNIV OF CALIFORNIA - DAVIS 2315
 CLIMATE CONTROL OF VEGETATION AND GROWTH FORM DIST WATER
 AND ENERGY BALANCE AT LANDSCAPE SCALES__
 09/09/1997 - 08/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: S G USTIN-KENNEDY
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30187 UNIV OF CALIFORNIA - DAVIS 2316
 FORMATION, DETECTION & QUANTIFICATION OF OXIDIZED HALOGEN
 SPECIES IN AEROSOLS FROM THE MARINE BOUND
 08/19/1999 - 08/31/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: C ANASTASIO
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTALSCI, OTHER

NGT 5 30352 UNIV OF CALIFORNIA - DAVIS 2317
 ECOLOGICAL & ECONOMIC INFLUENCES ON SMALL-SCALE TROPICAL
 RAINFOREST SUCCESSION: REMOTE SENSING
 08/24/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: S USTIN
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30373 UNIV OF CALIFORNIA - DAVIS 2318
 HYPERSPECTRAL REMOTE SENSING OF CORAL REEFS IN THE HAWAIIAN
 ISLANDS STUDENT: JAMES GOODMAN
 08/13/2001 - 08/31/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: S USTIN
Prin. Invest.: NONE
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30411 UNIV OF CALIFORNIA - DAVIS 2319
 EVALUATION BRDF MODELING STRATEGIES FOR BIOPHYSICAL
 PARAMETER RETRIEVAL THROUGH INVERSION, .../STUD
 08/15/2001 - 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: S USTIN
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50204 UNIV OF CALIFORNIA - DAVIS 2320
 FATNESS, FOOD INTAKE AND HYPERGRAVITY: MECHANISMS OF REGULA-
 TION
 07/01/1998 - 06/30/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: C A FULLER
Tech. Officer: HQ/A NURRIDIN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50230 UNIV OF CALIFORNIA - DAVIS 2321
 UTILIZING SCIGN VELOCITY SOLUTIONS TO MODEL LITHOSPHERIC PROCESSES IN THE WESTERN TRANSVERSE RANGE
 05/24/1999 - 06/30/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: L H KELLOGG, GLASCO
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50281 UNIV OF CALIFORNIA - DAVIS 2322
 NEW APPROACHES TO CALCULATING GRAVITATIONAL RADIATION & RADIATION REACTION/STUDENT: JAMES R VAN MET
 06/20/2000 - 06/30/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: S CARLIP
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 1 1906 UNIV OF CALIFORNIA - IRVINE 2323
 COUPLING ATMOSPHERIC CIRCULATION AND CHEMISTRY: DEVELOPING CTMS FOR CLIMATE SIMULATIONS
 02/28/1997 - 06/30/2000 FY01: -\$1 Total: \$282,506
Prin. Invest.: M J PRANTHER
Tech. Officer: LARC/G L MADREA, LARC/L R POOLE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 2104 UNIV OF CALIFORNIA - IRVINE 2324
 EXPERIMENTAL INVESTIGATION OF SUPERSONIC COPLANAR JETS WITHIN EJECTORS
 09/02/1998 - 07/31/2001 FY01: \$1 Total: \$103,890
Prin. Invest.: D PAMAMOSCHOU
Tech. Officer: LARC/J M SEINER, LARC/M K PONTON
CASE Category: 41 - AERONAUTICAL ENGR

NAG 1 2308 UNIV OF CALIFORNIA - IRVINE 2325
 DEVELOPMENT OF CHEMISTRY-TRANSPORT MODELS IN SUPPORT OF CLIMATE STUDIES AND ASSESSMENTS
 06/15/2000 - 03/14/2003 FY01: \$133,000 Total: \$182,979
Prin. Invest.: M J PRANTHER
Prin. Invest.: NONE
Tech. Officer: LARC/G L MADREA
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 01001 UNIV OF CALIFORNIA - IRVINE 2326
 REGIONAL CHEMISTRY FROM GLOBAL CTMS W/EC-MODELED MET-FIELDS FOR THE TRACE-P MISSION
 03/08/2001 - 03/14/2003 FY01: \$25,001 Total: \$25,001
Prin. Invest.: M J PRANTHER
Tech. Officer: LARC/J L RAPER, SR
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 01006 UNIV OF CALIFORNIA - IRVINE 2327
 COMPACT AIRBORNE SYS FOR S02 & DMS MEAS FOR USE OF FUTURE GTE MISSIONS ABOARD P-3 OR DC-8
 03/01/2001 - 03/31/2002 FY01: \$81,988 Total: \$81,988
Prin. Invest.: E S SALTZMAN
Tech. Officer: LARC/J L RAPER, SR
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 2 942 UNIV OF CALIFORNIA - IRVINE 2328
 NEURAL-THYROID INTERACTION ON SKELETAL ISOMYOSIA EXPRESSION IN OG (ZERO GRAVITY)
 12/22/1994 - 11/30/1999 FY01: \$0 Total: \$520,201
Prin. Invest.: K M BALDWIN
Tech. Officer: ARC/W E HINDS, ARC/C M WINGET
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 3 1831 UNIV OF CALIFORNIA - IRVINE 2329
 EFFECTS OF GRAVITY ON SHEARED TURBULENCE LADEN WITH BUBBLES OR DROPLETS
 05/02/1996 - 11/01/2000 FY01: -\$996 Total: \$399,004
Prin. Invest.: S ELGHOBASHI, J LA SHERAS
Tech. Officer: GRC/S LA SHERAS
CASE Category: 13 - PHYSICS

NAG 3 2024 UNIV OF CALIFORNIA - IRVINE 2330
 IGNITION AND FLAME SPREAD ABOVE LIQUID FUEL POOLS: GRAVITY EFFECTS
 03/01/1997 - 03/30/2002 FY01: \$92,150 Total: \$436,415
Prin. Invest.: W A SIRIGNANO
Tech. Officer: GRC/H D ROSS
CASE Category: 46 - MECHANICAL ENGR

NAG 3 2226 UNIV OF CALIFORNIA - IRVINE 2331
 APPLICATIONS OF ELECTRIC FIELD IN MICROGRAVITY COMBUSTION
 02/01/1999 - 11/29/2002 FY01: \$83,600 Total: \$259,600
Prin. Invest.: D DUNN-RANKIN
Tech. Officer: GRC/H D ROSS
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2345 UNIV OF CALIFORNIA - IRVINE 2332
 MIXING ENHANCEMENT AND NOISE REDUCTION IN HIGH-SPEED JETS
 03/07/2000 - 01/31/2002 FY01: \$64,655 Total: \$128,331
Prin. Invest.: D PAMAMOSCHOU
Tech. Officer: GRC/K Q ZAMAN
CASE Category: 46 - MECHANICAL ENGR

NAG 3 2389 UNIV OF CALIFORNIA - IRVINE 2333
 SUPERFLUID CONTACT LINE DYNAMICS SUPERFLUID CONTACT LINE DYNAMICS
 04/13/2000 - 11/30/2003 FY01: \$95,000 Total: \$145,000
Prin. Invest.: P TABOREK
Tech. Officer: GRC/R WILKINSON
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 4 166 UNIV OF CALIFORNIA - IRVINE 2334
 ROBUST NONLINEAR FLIGHT CONTROL
 02/25/1999 - 11/30/2000 FY01: \$0 Total: \$80,000
Prin. Invest.: K MEASE
Tech. Officer: DFRC/J CARTER
CASE Category: 41 - AERONAUTICAL ENGR

NAG 4 217 UNIV OF CALIFORNIA - IRVINE 2335
 ROBUST FLIGHT CONTROL WITH GOOD HANDLING QUALITIES ROBUST FLIGHT CONTROL WITH GOOD HANDLING QUALITIES
 01/17/2001 - 09/30/2001 FY01: \$30,000 Total: \$30,000
Prin. Invest.: K D MEASE
Tech. Officer: DFRC/C O LEE
CASE Category: 41 - AERONAUTICAL ENGR

NAG 5 5069 UNIV OF CALIFORNIA - IRVINE 2336
 HIGH ENERGY ANTIMATTER TELESCOPE - HEAT
 07/18/1996 - 09/30/2000 FY01: \$0 Total: \$150,000
Prin. Invest.: S W BARWICK
Tech. Officer: WFF/H C NEEDLEMAN, WFF/B A MERRITT
CASE Category: 13 - PHYSICS

NAG 5 5149 UNIV OF CALIFORNIA - IRVINE 2337
 DEVELOPMENT OF EMPIRICAL MODE DECOMPOSITION METHOD &
 HILBERT SPECTRAL ANALYSIS FOR ENGR APPLICATIONS
 09/09/1997 - 02/28/2002 FY01: \$0 Total: \$160,924
Prin. Invest.: J N YANG, Z SHEN
Tech. Officer: GSFC/S R LONG, GSFC/N E HUANG
CASE Category: 33 - OCEANOGRAPHY

NAG 5 7137 UNIV OF CALIFORNIA - IRVINE 2338
 DEVELOPING A CHEMICAL TRANSPORT MODEL FOR ASSESSING GLOBAL
 CHANGE IN ATMOSPHERIC COMPOSITION
 03/24/1998 - 03/31/2001 FY01: \$0 Total: \$221,212
Prin. Invest.: M J PRATHER
Tech. Officer: GSFC/R W STEWART
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7301 UNIV OF CALIFORNIA - IRVINE 2339
 ASSESSING ROLE OF FIRE & SOIL DRAINAGE IN DETERMINING NET C
 FLUXES IN BOREAL ECOSYSTEMS
 05/27/1998 - 04/30/2001 FY01: \$0 Total: \$162,372
Prin. Invest.: S TRUMBORE
Tech. Officer: GSFC/D WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8223 UNIV OF CALIFORNIA - IRVINE 2340
 "TOOLS AND DIAGNOSTICS FOR THE AEAP/GMI STRATOSPHERIC
 ASSESSMENT"
 02/10/1999 - 05/14/2000 FY01: \$0 Total: \$50,000
Prin. Invest.: M J PRATHER
Tech. Officer: GSFC/R W STEWART
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 8685 UNIV OF CALIFORNIA - IRVINE 2341
 PHOTOCHEMICAL APPLICATIONS OF AEROSOL CLIMATOLOGICAL
 07/16/1999 - 07/14/2002 FY01: \$18,500 Total: \$55,486
Prin. Invest.: M J PRATHER
Tech. Officer: GSFC/M I MISHCHENKO
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 8935 UNIV OF CALIFORNIA - IRVINE 2342
 CONTINUED MONITORING & TRENDS OF SELECTED TRACE GASES AT
 REMOTE LOCATIONS BETWEEN 71 DEGREES
 01/13/2000 - 02/28/2003 FY01: \$210,000 Total: \$420,000
Prin. Invest.: D R BLAKE
Tech. Officer: GSFC/M KURYLO
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9695 UNIV OF CALIFORNIA - IRVINE 2343
 RESOURCE MANAGEMENT IN TIGHTLY COUPLED MULTIPROCESSORS
 07/03/2000 - 07/14/2002 FY01: \$49,999 Total: \$99,999
Prin. Invest.: I SCHERSON
Tech. Officer: GSFC/J DORBAND
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 9955 UNIV OF CALIFORNIA - IRVINE 2344
 "STABLE ISOTOPES AND RADIOCARBON IN ATMOSPHERIC HYDROCAR-
 BONS AND THEIR SOURCES"
 09/21/2000 - 11/30/2001 FY01: \$192,681 Total: \$242,681
Prin. Invest.: S C TYLER
Tech. Officer: GSFC/D STARR
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 10147 UNIV OF CALIFORNIA - IRVINE 2345
 EFFECTS OF LAND-USE ON CLIMATE AND WATER RESOURCES: APPLICA-
 TION OF A LAND-USE MANAGEMENT
 12/08/2000 - 09/30/2001 FY01: \$19,490 Total: \$19,490
Prin. Invest.: C ZENDER
Tech. Officer: GSFC/G GUTMAN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10546 UNIV OF CALIFORNIA - IRVINE 2346
 INFLUENCE OF MINERAL DUST AEROSOL ON THE CHEMICAL COMPOSI-
 TION OF THE ATMOSPHERE
 03/14/2001 - 03/14/2002 FY01: \$99,603 Total: \$99,603
Prin. Invest.: ZENDER
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10748 UNIV OF CALIFORNIA - IRVINE 2347
 X-RAY ISOPHOTE SHAPES AND THE DARK MATTER HALO OF NGC 3923
 04/18/2001 - 09/30/2002 FY01: \$32,700 Total: \$32,700
Prin. Invest.: D BUOTE
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10758 UNIV OF CALIFORNIA - IRVINE 2348
 FE K-ALPHA EMISSION IN THE BRIGHT ELLIPTICAL GALAXY NGC 1399
 04/18/2001 - 09/30/2002 FY01: \$31,500 Total: \$31,500
Prin. Invest.: D BUOTE
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 11272 UNIV OF CALIFORNIA - IRVINE 2349
 ADDING NEW CAPABILITY TO CHEMISTRY-CLIMATE ASSESSMENTS
 THROUGH THE GLOBAL MODELLING INITIATIVE
 08/22/2001 - 08/31/2004 FY01: \$45,000 Total: \$45,000
Prin. Invest.: M PRATHER
Tech. Officer: GSFC/P DECOLA
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1437 UNIV OF CALIFORNIA - IRVINE 2350
 RESEARCH ON 3HE-4HE MIXTURES AND DROPLETS STABILIZED IN CESIATED
 CONTAINERS
 03/23/1998 - 01/31/2003 FY01: \$71,250 Total: \$221,250
Prin. Invest.: P TABOREK, J RUTLEDGE
Tech. Officer: MSFC/D HUBBARD
CASE Category: 12 - CHEMISTRY

NAG 8 1569 UNIV OF CALIFORNIA - IRVINE 2351
 GROWTH PROCESSES AND DEFECT STRUCTURE OF MACRO- MOLEC-
 ULAR CRYSTALS.
 03/04/1999 - 11/30/2002 FY01: \$94,900 Total: \$368,900
Prin. Invest.: A J MALKIN
Tech. Officer: MSFC/B GUYNES
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 8 1572 **UNIV OF CALIFORNIA - IRVINE** **2352**
 R/S STABILIZATION AND PRESERVATION OF CRYSTALS FOR X-RAY
 DIFFRACTION EXPERIMENTS
 02/18/1999 - 11/30/2002 FY01: \$149,150 Total: \$407,150
Prin. Invest.: F JURNAK
Tech. Officer: MSFC/B GUYNES
CASE Category: 49 - ENGINEERING, OTHER

NAG 8 1652 **UNIV OF CALIFORNIA - IRVINE** **2353**
 RESEARCH ENTITLED: "REDUCEAD-ORDER PREDICTIVE/ TRACKING
 ENTRY GUIDANCE"
 12/20/1999 - 01/15/2002 FY01: \$35,000 Total: \$105,000
Prin. Invest.: K D MEASE
Tech. Officer: MSFC/J HANSON
CASE Category: 46 - MECHANICAL ENGR

NAG 9 1149 **UNIV OF CALIFORNIA - IRVINE** **2354**
 MECHANISMS OF MICROACTIVITY EFFECT ON VASULAR FUNCTIONS
 09/15/1999 - 09/14/2002 FY01: \$304,613 Total: \$568,864
Prin. Invest.: R E PURDY
Tech. Officer: JSC/C W LLOYD
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAS 8 00017 **UNIV OF CALIFORNIA - IRVINE** **2355**
 OPCGA PHASE C/D FLIGHT HARDWARE DEVELOPMENT
 02/16/2000 - 07/31/2004 FY01: \$2,708,000 Total: \$5,967,171
Prin. Invest.: A MCPHERSON
Tech. Officer: MSFC/S ROBBINS
CASE Category: 59 - LIFE SCIENCE, OTHER

NAS 8 00019 **UNIV OF CALIFORNIA - IRVINE** **2356**
 ENHANCED GASEOUS NITROGEN DEWAR
 03/30/2000 - 11/19/2004 FY01: \$520,000 Total: \$920,000
Prin. Invest.: A MCPHERSON
Tech. Officer: MSFC/S ROBBINS
CASE Category: 59 - LIFE SCIENCE, OTHER

NAS 8 39763 **UNIV OF CALIFORNIA - IRVINE** **2357**
 CRYSTAL GROWTH FLIGHT APPARATUS
 10/30/1992 - 02/18/2000 FY01: \$0 Total: \$15,895,061
Prin. Invest.: A MCPHERSON
Tech. Officer: MSFC/S ROBBINS
CASE Category: 59 - LIFE SCIENCE, OTHER

NCC 1 299 **UNIV OF CALIFORNIA - IRVINE** **2358**
 WHOLE AIR SAMPLING FROM THE DC-8 AND P-3B AIRCRAFT DURING
 PEM-TROPICS-B, REF NRA-97-MTPE-13
 06/09/1998 - 05/31/2001 FY01: -\$1 Total: \$901,269
Prin. Invest.: D R BLAKE
Tech. Officer: LARC/J M HOELL, JR., LARC/R J BENDURA
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 1 413 **UNIV OF CALIFORNIA - IRVINE** **2359**
 WHOLE AIR SAMPLING FROM THE DC-8 AND P3-B AIRCRAFT DURING
 TRACE-P
 09/21/2000 - 06/30/2002 FY01: \$273,114 Total: \$616,693
Prin. Invest.: D R BLAKE
Tech. Officer: LARC/J L RAPER, SR
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 2 5333 **UNIV OF CALIFORNIA - IRVINE** **2360**
 LABORATORY MODELS OF PROTOCELLS
 07/19/1999 - 10/31/2000 FY01: \$8,448 Total: \$68,448
Prin. Invest.: J K LANYI
Tech. Officer: ARC/A POHORILLE, ARC/M H NEW
CASE Category: 59 - LIFE SCIENCE, OTHER

NCC 2 5378 **UNIV OF CALIFORNIA - IRVINE** **2361**
 OPTIMIZATION OF PERCEPTUAL TRANSPARENCY IN SYNTHETIC VISION
 DISPLAYS
 04/05/2000 - 03/31/2002 FY01: \$5,000 Total: \$20,791
Prin. Invest.: T M DZMURA
Tech. Officer: ARC/J MULLIGAN
CASE Category: 69 - PSYCHOLOGY, OTHER

NCC 2 5404 **UNIV OF CALIFORNIA - IRVINE** **2362**
 LABORATORY MODELS OF PROTOCELLS
 10/17/2000 - 10/31/2001 FY01: \$60,000 Total: \$60,000
Prin. Invest.: J K LANYI
Tech. Officer: ARC/A POHORILLE, ARC/M FONDA
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NCC 5 280 **UNIV OF CALIFORNIA - IRVINE** **2363**
 MEASURING THE EFFECTS OF LOGGING ON THE CO2 AND EN ERGY
 EXCHANGE OF APRIMARYFOREST IN TAPAJOS N
 06/24/1998 - 12/31/2001 FY01: \$253,383 Total: \$1,228,960
Prin. Invest.: M L GOULDEN
Tech. Officer: GSFC/D W DEERING
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 5 336 **UNIV OF CALIFORNIA - IRVINE** **2364**
 CARBON DYNAMICS IN VEGETATION AND SOILS ALONG THE EASTERN LBA
 TRANSECT
 06/16/1998 - 12/31/2001 FY01: \$258,712 Total: \$884,733
Prin. Invest.: S TRUMBORE
Tech. Officer: GSFC/D DEERING
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30127 **UNIV OF CALIFORNIA - IRVINE** **2365**
 TIMESCALES OF TERRESTRIAL ECOSYSTEM RESPONSE TO GL OBAL
 CHANGE
 10/10/1997 - 08/31/2000 FY01: -\$34 Total: \$65,966
Prin. Invest.: M PRATHER
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30203 **UNIV OF CALIFORNIA - IRVINE** **2366**
 LOW LATITUDE NONLINEAR BEHAVIOR OF ROSSBY WAVES COMPOSED OF
 A SPECTRUM OF PHASE SPEEDS/STUDENT
 08/19/1999 - 08/31/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: G MAGNUSDOTTIR
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30409 **UNIV OF CALIFORNIA - IRVINE** **2367**
 AN INVESTIGATION OF THE RELATIONSHIP BETWEEN CARBO N STORAGE
 AND METHANE EMISSION IN RICE PADDIES/ST
 08/15/2001 - 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: S TYLER
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50226 UNIV OF CALIFORNIA - IRVINE 2368
 SIGMA D MEASUREMENT OF METHANE AND MOLECULAR HYDRO GEN IN
 THE ATMOSPHERE
 09/29/1998 - 08/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: R J RICE, RICE
Tech. Officer: HQ/A NURRIDIN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 50317 UNIV OF CALIFORNIA - IRVINE 2369
 SIMULATED MICROGRAVITY ALTERS VASCULAR CONTRACTILITY: ROLE
 OF CALCIUM DEPENDENT PKC-MEDIATED NON-
 07/11/2000 - 06/30/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: R E PURDY
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50325 UNIV OF CALIFORNIA - IRVINE 2370
 METHYL HALIDE EMISSIONS: THE ATMOSPHERIC IMPACT OF AGRICUL-
 TURE
 08/17/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: R J CICERONE
Tech. Officer: GSFC/M W WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 1 1899 UNIV OF CALIFORNIA - LOS ANGELES 2371
 STRATOSPHERIC AEROSOL MICROPHYSICS AND PHYSICAL CHEMISTRY:
 MODELING AND OBSERVATIONS
 04/01/1997 - 03/31/2001 FY01: \$0 Total: \$356,960
Prin. Invest.: R P TURCO
Tech. Officer: LARC/G MADDERA, LARC/M M POTEAT
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 1 1966 UNIV OF CALIFORNIA - LOS ANGELES 2372
 RADIATIVE TRANSFER AND SATELLITE REMOTE SOUNDING OF CIRRUS
 CLOUDS USING FIRE-II-IFO DATA
 09/08/1997 - 05/07/2000 FY01: -\$1 Total: \$205,000
Prin. Invest.: K N LIU, S C OUPrin. Invest.: NONE
Tech. Officer: LARC/D S MCDUGAL
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 2097 UNIV OF CALIFORNIA - LOS ANGELES 2373
 AIRCRAFT AEROSOLS AND CONTRAILS: MICROPHYSICAL PROCESS AND
 EVOLUTION
 09/10/1998 - 09/09/2001 FY01: \$0 Total: \$162,189
Prin. Invest.: R P TURCO
Tech. Officer: LARC/W L GROSE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 2274 UNIV OF CALIFORNIA - LOS ANGELES 2374
 DEVELOPMENT OF MLPG AND LBIE METHODS FOR NONLINEAR PROB-
 LEMS OF FRACTURE
 03/01/2000 - 12/14/2000 FY01: \$0 Total: \$65,000
Prin. Invest.: S N ATLURI
Tech. Officer: LARC/I S RAJU
CASE Category: 46 - MECHANICAL ENGR

NAG 1 01082 UNIV OF CALIFORNIA - LOS ANGELES 2375
 MESHLESS (MLPG AND LBIE) METHODS FOR NONLINEAR ANALYSES
 05/22/2001 - 05/31/2002 FY01: \$65,005 Total: \$65,005
Prin. Invest.: S N ATTURE, NONE
Tech. Officer: LARC/J S RAJA
CASE Category: 41 - AERONAUTICAL ENGR

NAG 2 1193 UNIV OF CALIFORNIA - LOS ANGELES 2376
 MECHANICAL SIGNAL TRANSDUCTION IN COUNTERMEASURES OF
 PHYSIOLOGICAL SCIENCE
 03/25/1998 - 04/30/2002 FY01: \$0 Total: \$536,583
Prin. Invest.: T J TIDBALL
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 2 1222 UNIV OF CALIFORNIA - LOS ANGELES 2377
 HYPERGRAVITY-INDUCED MODIFICATIONS IN SPATIO-TEMPO RAL CODING
 AMONG UTRICULAR PRIMARY AFFERENT NEURO
 05/22/1998 - 12/31/2001 FY01: \$197,057 Total: \$539,538
Prin. Invest.: L F HOFFMAN
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 2 1238 UNIV OF CALIFORNIA - LOS ANGELES 2378
 SCALABLE NUMERICAL ALGORITHMS ON NON-HETEROGENEOUS
 COMPUTING ENVIRONMENTS WITH DYNAMIC ROUTING & LOAD
 07/17/1998 - 06/30/2001 FY01: \$0 Total: \$120,000
Prin. Invest.: T F CHAN
Tech. Officer: ARC/T J BARTH
CASE Category: 22 - COMPUTER SCIENCE

NAG 2 1249 UNIV OF CALIFORNIA - LOS ANGELES 2379
 NEXT GENERATION INTERNET BANDWIDTH & TRAFFIC MANAG EMENT
 08/19/1998 - 05/31/2001 FY01: \$0 Total: \$280,418
Prin. Invest.: M GERLA
Tech. Officer: ARC/B H WHITAKER, ARC/B H WHITAKER
CASE Category: 22 - COMPUTER SCIENCE

NAG 2 1270 UNIV OF CALIFORNIA - LOS ANGELES 2380
 NEUROMUSCULAR ADAPTATIONS OF RHESUS MACAQUES TO A HYPERDY-
 NAMIC ENVIRONMENT
 09/18/1998 - 12/31/2000 FY01: \$0 Total: \$257,004
Prin. Invest.: V R EDGERTON, J HODGSON, R ROY
Tech. Officer: ARC/R E GRINDELAND, ARC/K L SOUZA
CASE Category: 51 - BIOLOGY (EXCLUDINGENVIR)

NAG 2 1324 UNIV OF CALIFORNIA - LOS ANGELES 2381
 COMPUTATION OF HIGH-SPEED JET NOISE
 05/20/1999 - 05/14/2001 FY01: \$0 Total: \$40,000
Prin. Invest.: J B FREUND
Tech. Officer: ARC/D KWAK
CASE Category: 41 - AERONAUTICAL ENGR

NAG 2 1484 UNIV OF CALIFORNIA - LOS ANGELES 2382
 MANAGEMENT OF AIR CEHICLE SYSTEMS
 05/14/2001 - 05/14/2002 FY01: \$66,000 Total: \$66,000
Prin. Invest.: J L SPEYER
Tech. Officer: ARC/L TOBIAS, ARC/Y C JUNG
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 1819 UNIV OF CALIFORNIA - LOS ANGELES 2383
 STUDIES IN THERMOCAPILIARY CONVECTION OF THE MARAN GONI-
 BERNARD TYPE
 05/06/1996 - 05/05/2001 FY01: \$0 Total: \$320,000
Prin. Invest.: R E KELLY
Tech. Officer: GRC/B S SINGH
CASE Category: 46 - MECHANICAL ENGR

NAG 3 1832 UNIV OF CALIFORNIA - LOS ANGELES 2384
 INVESTIGATION OF MECHANISMS ASSOCIATED WITH NUCLEA TE BOILING
 UNDER MICROGRAVITY CONDITIONS
 05/06/1996 - 08/30/2000 FY01: \$0 Total: \$764,880
Prin. Invest.: V K DHIR*Prin. Invest.:* NONE
Tech. Officer: GRC/D F SHAO
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 3 1849 UNIV OF CALIFORNIA - LOS ANGELES 2385
 THE MELTING OF AQUEOUS FOAMS
 05/06/1996 - 05/31/2000 FY01: \$0 Total: \$640,000
Prin. Invest.: D J DURIAN
Tech. Officer: GRC/B SINGH
CASE Category: 13 - PHYSICS

NAG 3 1862 UNIV OF CALIFORNIA - LOS ANGELES 2386
 FINITE SIZE EFFECTS NEAR THE LIQUID-GAS CRITICAL P OINT OF 3HE
 05/08/1996 - 05/22/2001 FY01: \$0 Total: \$308,200
Prin. Invest.: J RUDNICK
Tech. Officer: GRC/B S SINGH
CASE Category: 13 - PHYSICS

NAG 3 1889 UNIV OF CALIFORNIA - LOS ANGELES 2387
 CONTAINERLESS RIPPLE TURBULENCE
 05/31/1996 - 05/30/2000 FY01: \$0 Total: \$300,000
Prin. Invest.: S PUTTERMAN
Tech. Officer: GRC/R ROGERS
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 3 2108 UNIV OF CALIFORNIA - LOS ANGELES 2388
 DIFFUSING LIGHT PHOTOGRAPHY OF CONTAINERLESS RIPPL E TURBU-
 LENCE
 03/01/1998 - 01/07/2002 FY01: \$215,000 Total: \$615,000
Prin. Invest.: S J PUTTERMAN
Tech. Officer: GRC/W M DUVAL
CASE Category: 13 - PHYSICS

NAG 3 2344 UNIV OF CALIFORNIA - LOS ANGELES 2389
 EVALUATION AND IMPROVEMENT OF JET NOISE MODELS AND EXPERI-
 MENTAL TECHNIQUESUSING HIGH FIDELITY SIMU
 03/07/2000 - 09/30/2001 FY01: \$40,001 Total: \$106,001
Prin. Invest.: J B FREUND
Tech. Officer: GRC/J BRIDGES
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2397 UNIV OF CALIFORNIA - LOS ANGELES 2390
 TRANSITION FROM POOL TO FLOW BOILING - THE EFFECT OF REDUCED
 GRAVITY
 04/18/2000 - 11/30/2003 FY01: \$95,010 Total: \$144,999
Prin. Invest.: V K DHIR
Tech. Officer: GRC/D F CHAO
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2467 UNIV OF CALIFORNIA - LOS ANGELES 2391
 A MECHANISTIC STUDY OF NUCLEATE BOILING HEAT TRANS FER UNDER
 MICROGRAVITY CONDITIONS
 06/21/2000 - 05/15/2005 FY01: \$190,000 Total: \$300,000
Prin. Invest.: V K DHIR
Tech. Officer: GRC/D F CHAO
CASE Category: 46 - MECHANICAL ENGR

NAG 3 2481 UNIV OF CALIFORNIA - LOS ANGELES 2392
 THE MELTING OF AQUEOUS FOAMS THE MELTING OF AQUEOUS FOAMS
 08/01/2000 - 05/31/2005 FY01: \$190,000 Total: \$328,000
Prin. Invest.: D J DURIAN
Tech. Officer: GRC/F P CHARIAMONTE
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 713 UNIV OF CALIFORNIA - LOS ANGELES 2393
 ESTIMATION THEORY SATELLITE DATA ASSIMULATION AND ATMOSPHERIC
 PREDICTABILITY
 09/15/1985 - 12/31/1999 FY01: \$5 Total: \$1,682,999
Prin. Invest.: M GHIL
Tech. Officer: GSFC/J PFAENDTNER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 3235 UNIV OF CALIFORNIA - LOS ANGELES 2394
 THE COUPLED MAGNETOSPHERE-IONOSPHERE: AURORAL ARC S AND
 SUBSTORM BREAKUP
 05/16/1996 - 05/31/2000 FY01: \$0 Total: \$715,000
Prin. Invest.: F V CORONITI
Tech. Officer: GSFC/J J GREBOWSKY, HQ/J D BOHLIN
CASE Category: 13 - PHYSICS

NAG 5 3764 UNIV OF CALIFORNIA - LOS ANGELES 2395
 SOURCE DETERMINATION FOR SUBSTORM-RELATED ION INJE
 02/13/1997 - 04/14/2001 FY01: \$0 Total: \$165,000
Prin. Invest.: R J STRANGWAY
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 - PHYSICS

NAG 5 3863 UNIV OF CALIFORNIA - LOS ANGELES 2396
 THERMAL AND DYNAMICAL PROCESSES IN THE EVOLUTION O SATELLITES
 02/14/1997 - 11/30/2001 FY01: \$80,000 Total: \$396,000
Prin. Invest.: G SCHUBERT
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 3956 UNIV OF CALIFORNIA - LOS ANGELES 2397
 VENUS TECTONICS AND EVOLUTION
 03/12/1997 - 02/14/2002 FY01: \$39,000 Total: \$183,780
Prin. Invest.: W M KAULA
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 4117 UNIV OF CALIFORNIA - LOS ANGELES 2398
 DYNAMICAL STUDIES OF PLANETARY AND SATELLITE ATMOS
 02/28/1997 - 01/31/2002 FY01: \$0 Total: \$304,781
Prin. Invest.: P SCHUBERT
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 4215 UNIV OF CALIFORNIA - LOS ANGELES 2399
 PRISTINE IGNEOUS ROCKS AND THE EARLY DIFFERENTIATION MATERIALS
 03/19/1997 - 12/14/2001 FY01: \$135,000 Total: \$744,000
Prin. Invest.: D H WARREN
Tech. Officer: GSFC/J BOYCE
CASE Category: 12 - CHEMISTRY

NAG 5 4270 UNIV OF CALIFORNIA - LOS ANGELES 2400
 ELECTRON PRECIPITATION FROM THE INNER MAGNETOSPHERE THE
 MIDDLE ATMOSPHERE
 04/04/1997 - 04/30/2001 FY01: \$0 Total: \$216,557
Prin. Invest.: D M THORNE
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 - PHYSICS

NAG 5 4331 UNIV OF CALIFORNIA - LOS ANGELES 2401
 COSMOCHEMICAL STUDIES: CHONDRITE COMPONENTS AND D METEOR-
 ITES
 04/16/1997 - 01/31/2001 FY01: \$0 Total: \$599,000
Prin. Invest.: D T WASSON
Tech. Officer: GSFC/D F NAVA
CASE Category: 12 - CHEMISTRY

NAG 5 4339 UNIV OF CALIFORNIA - LOS ANGELES 2402
 THE ROLE OF THIN CURRENT SHEETS IN PLASMA SHEET CO DISRUPTION
 04/12/1997 - 10/31/2001 FY01: \$0 Total: \$324,270
Prin. Invest.: D L PRITCHETT
Tech. Officer: GSFC/J D BOHLIN
CASE Category: 13 - PHYSICS

NAG 5 4420 UNIV OF CALIFORNIA - LOS ANGELES 2403
 NUMERICAL MODELING OF THE GLOBAL ATMOSPHERE
 05/01/1997 - 12/31/2000 FY01: \$0 Total: \$300,000
Prin. Invest.: A ARAKAWA
Tech. Officer: GSFC/M SUAREZ
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 4688 UNIV OF CALIFORNIA - LOS ANGELES 2404
 TOWARD OTHER SOLAR SYSTEMS: GAS, DUST, BROWN DWARF
 06/17/1997 - 04/30/2002 FY01: \$0 Total: \$147,000
Prin. Invest.: D M ZUCKERMAN
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 4704 UNIV OF CALIFORNIA - LOS ANGELES 2405
 ISOTOPIC INVESTIGATIONS OF NEBULAR AND PARENT-BODY SENSITIVITY
 ION MICROPROBE
 08/13/1997 - 07/14/2000 FY01: \$0 Total: \$325,700
Prin. Invest.: D D MCKEEGAN
Tech. Officer: HQ/J F BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 4766 UNIV OF CALIFORNIA - LOS ANGELES 2406
 CHONDRITIC METEORITES: NEBULAR AND PARENT-BODY FO
 06/05/1997 - 05/31/2002 FY01: \$54,000 Total: \$253,000
Prin. Invest.: D E RUBIN
Tech. Officer: GSFC/D NAVA
CASE Category: 11 - ASTRONOMY

NAG 5 6265 UNIV OF CALIFORNIA - LOS ANGELES 2407
 ASSYM. AURORAL PROCESSES
 08/21/1997 - 06/30/2001 FY01: \$0 Total: \$246,911
Prin. Invest.: D M THORNE
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 6272 UNIV OF CALIFORNIA - LOS ANGELES 2408
 CONDENSATION OF THE MARTIAN ATMOSPHERE DURING POLA DYNAMICS
 & MICROPHYSICS
 08/27/1997 - 08/31/2000 FY01: \$0 Total: \$60,400
Prin. Invest.: D PAIGE
Tech. Officer: GSFC/R BEEBE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 6332 UNIV OF CALIFORNIA - LOS ANGELES 2409
 OBSERVATIONAL AND THEORETICAL STUDIES OF SOLAR STR
 09/30/1997 - 10/31/2000 FY01: \$0 Total: \$627,807
Prin. Invest.: D K ULRICH
Tech. Officer: GSFC/W J WAGNER
CASE Category: 11 - ASTRONOMY

NAG 5 6377 UNIV OF CALIFORNIA - LOS ANGELES 2410
 SUBSTORM BREAK-UP AS A COUPLED MAGNETOSPHERE-IONOSPHERE
 INSTABILITY
 10/08/1997 - 08/31/2000 FY01: \$0 Total: \$126,000
Prin. Invest.: D PELLAT
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 - PHYSICS

NAG 5 6680 UNIV OF CALIFORNIA - LOS ANGELES 2411
 SPECTRAL DISTRIBUTION OF SOLAR IRRADIANCE VARIABILITY
 12/08/1997 - 11/30/2000 FY01: \$0 Total: \$124,624
Prin. Invest.: D M PAP
Tech. Officer: GSFC/C JACKMAN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 6689 UNIV OF CALIFORNIA - LOS ANGELES 2412
 THEORETICAL TECHNOLOGY RESEARCH FOR THE INTERNATIONAL
 SOLAR TERRESTRIAL PHYSICS (ISTP) PROGRAM.
 12/01/1997 - 09/30/2001 FY01: \$0 Total: \$1,514,500
Prin. Invest.: M ABDALLA
Tech. Officer: GSFC/S CURTIS
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 6965 UNIV OF CALIFORNIA - LOS ANGELES 2413
 PICK-UP ION INSTABILITIES AT PLANETARY MAGNETOSPHERE RES
 03/03/1998 - 03/31/2001 FY01: \$0 Total: \$96,968
Prin. Invest.: R J STRANGWAY
Tech. Officer: GSFC/D EVANS
CASE Category: 11 - ASTRONOMY

NAG 5 6975 UNIV OF CALIFORNIA - LOS ANGELES 2414
 THE ROLE OF COMPANION STARS IN PLANETARY FORMATION
 03/25/1998 - 06/30/2002 FY01: \$0 Total: \$116,600
Prin. Invest.: A GHEZ
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 7123 UNIV OF CALIFORNIA - LOS ANGELES 2415
 LIGHT SCATTERING AND REMOTE SENSING OF CIRRUS CLOUDS USING MODIS CHANNELS
 04/16/1998 - 09/30/2000 FY01: \$0 Total: \$123,000
Prin. Invest.: K N LIOU
Tech. Officer: GSFC/M D KING
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7555 UNIV OF CALIFORNIA - LOS ANGELES 2416
 REAL-TIME FORECASTING AND RAPID POST-EVENT ASSESSMENT OF EROSIONAL AND DEPOSITIONAL FLOOD DAMAGE
 06/25/1998 - 08/31/2002 FY01: \$0 Total: \$330,915
Prin. Invest.: L C SMITH
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 7721 UNIV OF CALIFORNIA - LOS ANGELES 2417
 POLAR MAGNETIC FIELD EXPERIMENT
 09/23/1998 - 09/30/2001 FY01: \$380,000 Total: \$1,377,000
Prin. Invest.: C T RUSSELL
Tech. Officer: GSFC/R HOFFMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 7738 UNIV OF CALIFORNIA - LOS ANGELES 2418
 RADIATIVE TRANSFER AND REMOTE SENSING IN AEROSOL ATMOSPHERE.
 10/02/1998 - 09/30/2002 FY01: \$85,000 Total: \$245,000
Prin. Invest.: K LIOU
Tech. Officer: GSFC/M I MISHCHENKO
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7899 UNIV OF CALIFORNIA - LOS ANGELES 2419
 QUASI-CONTINUOUS ROSAT MONITORING OF THE EXTREME N ARROW-LINE SEYFERT 1 GALAXY IRAS 13224-3809 ADP 9
 01/03/1999 - 12/31/2000 FY01: \$0 Total: \$38,000
Prin. Invest.: R A EDELSON
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 7907 UNIV OF CALIFORNIA - LOS ANGELES 2420
 STUDY OF TOTAL SOLAR AND SPECTRAL IRRADIANCE VARIATIONS BASED ON THE SOHO/VIRGO AND MDI MEASUREMENTS
 12/04/1998 - 05/14/2001 FY01: \$0 Total: \$205,228
Prin. Invest.: J M PAP
Tech. Officer: GSFC/J GURMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 7924 UNIV OF CALIFORNIA - LOS ANGELES 2421
 EVOLUTION OF DUST AROUND MAIN SEQUENCE STARS (LTSAs - 98)
 01/06/1999 - 12/14/2001 FY01: \$69,118 Total: \$201,354
Prin. Invest.: M A JURA
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 7959 UNIV OF CALIFORNIA - LOS ANGELES 2422
 THE GALILEAN MOONS OF JUPITER: INFERRING INTERNAL PROPERTIES OF NEOWORLDS FROM THEIR INTERACTIONS
 01/08/1999 - 11/30/2001 FY01: \$0 Total: \$178,006
Prin. Invest.: D G KIVELSON, NONE
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 - ASTRONOMY

NAG 5 7962 UNIV OF CALIFORNIA - LOS ANGELES 2423
 DYNAMICS OF THE R=10-30 RE MAGNETOTAIL DURING GEOMAGNETIC DISTURBANCES
 12/23/1998 - 12/14/2001 FY01: \$84,000 Total: \$247,000
Prin. Invest.: L R LYONS
Tech. Officer: GSFC/L ZANETTI
CASE Category: 11 - ASTRONOMY

NAG 5 7995 UNIV OF CALIFORNIA - LOS ANGELES 2424
 CALIBRATION AND COMPARISON BETWEEN MDI, GOLF, AND MT. WILSON DATA 11
 01/05/1999 - 12/31/2001 FY01: \$255,000 Total: \$751,562
Prin. Invest.: R K ULRICH
Tech. Officer: GSFC/J GURMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 8050 UNIV OF CALIFORNIA - LOS ANGELES 2425
 SOME STUDIES OF STRUCTURE AND DYNAMICS OF JUPITER'S MAGNETOSPHERE
 01/15/1999 - 11/30/2001 FY01: \$0 Total: \$123,696
Prin. Invest.: D K KHURANA
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 - ASTRONOMY

NAG 5 8055 UNIV OF CALIFORNIA - LOS ANGELES 2426
 A GLOBAL MAGNETOHYDRODYNAMIC MODEL OF THE JOVIAN MAGNETOSPHERE
 01/15/1999 - 01/31/2001 FY01: \$0 Total: \$60,000
Prin. Invest.: R J WALKER
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 - ASTRONOMY

NAG 5 8059 UNIV OF CALIFORNIA - LOS ANGELES 2427
 MULTIPLE SCALE STRUCTURE OF AURORAL ARCS
 01/14/1999 - 01/31/2002 FY01: \$72,468 Total: \$207,418
Prin. Invest.: F V CORONITI
Tech. Officer: GSFC/M MELLOTT
CASE Category: 13 - PHYSICS

NAG 5 8060 UNIV OF CALIFORNIA - LOS ANGELES 2428
 THE PHYSICAL NATURE OF THE ELECTRON CYCLOTRON MASE R INSTABILITY IN THE AKR SOURCE REGION
 01/14/1999 - 01/31/2002 FY01: \$61,569 Total: \$177,301
Prin. Invest.: P L PRITCHETT
Tech. Officer: GSFC/M MELLOTT
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 8064 UNIV OF CALIFORNIA - LOS ANGELES 2429
 JOVIAN SUBSTORMS: A STUDY OF PROCESSES LEADING TO TRANSIENT BEHAVIOR IN THE JOVIAN MAGNETOSPHERE
 01/11/1999 - 12/31/2000 FY01: \$0 Total: \$100,000
Prin. Invest.: C T RUSSELL
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 - ASTRONOMY

NAG 5 8065 UNIV OF CALIFORNIA - LOS ANGELES 2430
 NON-ADIABATIC PLASMA PROCESSES IN THE JOVIAN MAGNETOSPHERE AND COUPLING TO THE ATMOSPHERE
 01/11/1999 - 06/30/2002 FY01: \$0 Total: \$105,000
Prin. Invest.: D M THORNE
Prin. Invest.: NONE
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 - ASTRONOMY

NAG 5 8066 UNIV OF CALIFORNIA - LOS ANGELES 2431
 ANALYSIS AND INTERPRETATION OF JOVIAN ATMOSPHERE AND
 SATELLITE DATA FROM THE GALILEO MISSION
 01/12/1999 - 12/31/2001 FY01: \$0 Total: \$105,000
Prin. Invest.: D SCHUBERT
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 - ASTRONOMY

NAG 5 8085 UNIV OF CALIFORNIA - LOS ANGELES 2432
 ELECTRON DYNAMICS IN THE MAGNETOSPHERE
 01/21/1999 - 12/31/2001 FY01: \$80,230 Total: \$230,315
Prin. Invest.: D SCHRIEVER
Tech. Officer: GSFC/D EVANS
CASE Category: 11 - ASTRONOMY

NAG 5 8132 UNIV OF CALIFORNIA - LOS ANGELES 2433
 RESEARCH: "SUBSTORM EXPANSION PHASE DYNAMICS", 1-YEAR
 FUNDING TO SUPPORT COMPLETION OF PI'S STUDY
 02/04/1999 - 05/31/2001 FY01: \$0 Total: \$108,000
Prin. Invest.: F CORONITE
Tech. Officer: GSFC/J GREBOWSKY
CASE Category: 13 - PHYSICS

NAG 5 8335 UNIV OF CALIFORNIA - LOS ANGELES 2434
 EVOLUTION OF DUST AROUND YOUNG MAIN SEQUENCE STARS
 02/24/1999 - 02/28/2002 FY01: \$23,000 Total: \$65,400
Prin. Invest.: D JURA
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8470 UNIV OF CALIFORNIA - LOS ANGELES 2435
 BIOMARKERS FOR MARS EXPLORATION
 05/06/1999 - 07/31/2002 FY01: \$0 Total: \$84,287
Prin. Invest.: D F KERRIDGE
Tech. Officer: GSFC/M MEYER
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 8507 UNIV OF CALIFORNIA - LOS ANGELES 2436
 STUDY OF THE TERRESTRIAL EFFECTS OF SOLAR IRRADIANCE VARI-
 ATIONS FROM EUV TO INFRARED: A NEW APPROACH
 05/10/1999 - 04/30/2002 FY01: \$96,259 Total: \$175,541
Prin. Invest.: J M PAPPAS
Tech. Officer: GSFC/W WAGNER
CASE Category: 11 - ASTRONOMY

NAG 5 8530 UNIV OF CALIFORNIA - LOS ANGELES 2437
 MINING LUNAR PROSPECTOR'S GRAVITY DATA FOR INSIGHTS INTO THE
 MECHANICAL AND THERMAL EVOLUTION OF THE MOON
 06/15/1999 - 06/30/2002 FY01: \$15,000 Total: \$76,000
Prin. Invest.: G SCHUBERT
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8540 UNIV OF CALIFORNIA - LOS ANGELES 2438
 PRIOR GRANT NAG5-3252 CONTINUATION OF MAP SCIENCE SUPPORT
 ACTIVITIES BEING IMPLEMENTED BY THE MAP
 08/19/1999 - 08/14/2002 FY01: \$96,702 Total: \$216,263
Prin. Invest.: E L WRIGHT, NONE
Tech. Officer: GSFC/C BENNETT
CASE Category: 11 - ASTRONOMY

NAG 5 8693 UNIV OF CALIFORNIA - LOS ANGELES 2439
 BLACK HOLES IN EARLY TYPE GALAXIES: INCIDENCE, FORMATION AND
 EVOLUTION (LTS A 98)
 09/08/1999 - 08/31/2000 FY01: \$0 Total: \$109,333
Prin. Invest.: L FERRARESE
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8694 UNIV OF CALIFORNIA - LOS ANGELES 2440
 DECENTRALIZED ESTIMATION & CONTROL OF DISTRIBUTED SPACECRAFT
 07/29/1999 - 07/31/2001 FY01: \$0 Total: \$253,525
Prin. Invest.: J SPEYER
Tech. Officer: GSFC/J CARPENTER
CASE Category: 41 - AERONAUTICAL ENGR

NAG 5 8812 UNIV OF CALIFORNIA - LOS ANGELES 2441
 HIGH RESOLUTION SOLAR TRANSMISSION MEASUREMENTS FOR THE
 DETECTION OF AEROSOLS AND CLOUDS
 09/15/1999 - 09/30/2001 FY01: \$0 Total: \$198,326
Prin. Invest.: A ELDERING
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8879 UNIV OF CALIFORNIA - LOS ANGELES 2442
 PRECISE RELATIVE STATE ESTIMATION & CONTROL OF DISTRIBUTED
 SATELLITE NETWORKS
 11/15/1999 - 11/14/2001 FY01: \$204,430 Total: \$386,230
Prin. Invest.: J L SPEYER
Tech. Officer: GSFC/R CARPENTER
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 5 8938 UNIV OF CALIFORNIA - LOS ANGELES 2443
 MAGNETIC FLUCTUATIONS IN THE JOVIAN MAGNETOSPHERE
 01/13/2000 - 01/14/2002 FY01: \$70,600 Total: \$137,900
Prin. Invest.: C T RUSSELL
Tech. Officer: GSFC/D BOGAN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9014 UNIV OF CALIFORNIA - LOS ANGELES 2444
 INTERACTION OF LAND SURFACE COVER/CHARACTERISTICS & SURFACE
 HYDROCLIMATOLOGY AT SEASONAL/INTERANNUAL
 02/03/2000 - 07/31/2001 FY01: -\$11,308 Total: \$217,819
Prin. Invest.: Y XUE
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 9023 UNIV OF CALIFORNIA - LOS ANGELES 2445
 DETERMINING THE LONG TERM VARIABILITY AND CHARACTERISTIC TIME
 SCALES OF AGN - ADP 99
 02/22/2000 - 02/28/2001 FY01: \$0 Total: \$56,000
Prin. Invest.: R A EDELSON
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9027 UNIV OF CALIFORNIA - LOS ANGELES 2446
 GLOBAL SURFACE GEOCHEMISTRY & THE DIFFERENTIATION, BULK
 COMPOSITION, & ORIGIN OF THE MOON
 02/04/2000 - 02/14/2002 FY01: \$23,000 Total: \$45,000
Prin. Invest.: P H WARREN
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 9071 UNIV OF CALIFORNIA - LOS ANGELES 2447
 CONSEQUENCES OF HIGH-LATITUDE RECONNECTION
 02/15/2000 - 02/14/2003 FY01: \$80,828 Total: \$153,828
Prin. Invest.: J P BERCHEM
Tech. Officer: GSFC/J SHARBER
CASE Category: 13 - PHYSICS

NAG 5 9074 UNIV OF CALIFORNIA - LOS ANGELES 2448
 PARTICLE TRANSPORT IN THE IO TORUS AND NEAR THE MOONS IO AND EUROPA
 02/15/2000 - 03/31/2002 FY01: \$55,000 Total: \$100,000
Prin. Invest.: R THORNE
Tech. Officer: GSFC/D BOGAN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9111 UNIV OF CALIFORNIA - LOS ANGELES 2449
 MHD TURBULENCE SIMULATION OF THE DYNAMICS OF THE MAGNETOTAIL
 02/23/2000 - 02/28/2002 FY01: \$48,420 Total: \$89,920
Prin. Invest.: C WU
Tech. Officer: GSFC/J SHARBER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9207 UNIV OF CALIFORNIA - LOS ANGELES 2450
 ANALYSIS AND VALIDATION OF THE UARS/ACRIM II DATA
 03/10/2000 - 10/14/2001 FY01: \$0 Total: \$24,740
Prin. Invest.: J PAP
Tech. Officer: GSFC/R CAHALAN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9255 UNIV OF CALIFORNIA - LOS ANGELES 2451
 THE INTERPLANETARY MAGNETIC FIELD AND THE MAGNETOSPHERIC CURRENT SYSTEMS
 03/15/2000 - 02/28/2002 FY01: \$79,737 Total: \$150,737
Prin. Invest.: M EL-ALAOUI
Tech. Officer: GSFC/J SHARBER
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 9294 UNIV OF CALIFORNIA - LOS ANGELES 2452
 SEQUENTIAL ESTIMATION & PREDICTABILITY STUDIES FOR THE ATMOSPHERE & OCEANS
 04/10/2000 - 04/14/2002 FY01: \$120,000 Total: \$220,000
Prin. Invest.: M GHIL
Tech. Officer: GSFC/S COHN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9299 UNIV OF CALIFORNIA - LOS ANGELES 2453
 NEW GRANT EXTEND SOLAR MAX: INVESTIGATION OF HIGH LATITUDE PHENOMENA USING POLAR DATA
 05/04/2000 - 05/14/2001 FY01: \$0 Total: \$50,000
Prin. Invest.: C RUSSEL
Tech. Officer: GSFC/R HOFFMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 9358 UNIV OF CALIFORNIA - LOS ANGELES 2454
 SENSITIVITY OF PRECIPITATION IN COUPLED LAND-ATMOSPHERE MODELS
 04/06/2000 - 06/30/2002 FY01: \$100,000 Total: \$150,000
Prin. Invest.: D J NEELIN
Tech. Officer: GSFC/K BERGMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9431 UNIV OF CALIFORNIA - LOS ANGELES 2455
 TO CONSTRUCT A MODEL STELLAR POPULATION SCALED TO THE SURFACE BRIGHTNESS OF DISK, HALO, AND BULGE FIE
 04/14/2000 - 04/14/2001 FY01: \$0 Total: \$10,000
Prin. Invest.: D RICH
Tech. Officer: GSFC/E P SMITH
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 5 9441 UNIV OF CALIFORNIA - LOS ANGELES 2456
 THE METEORITIC COMPONENT IN IMPACT DEPOSITS
 04/13/2000 - 04/14/2002 FY01: \$55,000 Total: \$110,000
Prin. Invest.: F T KYTE
Tech. Officer: GSFC/D NAVA
CASE Category: 11 - ASTRONOMY

NAG 5 9546 UNIV OF CALIFORNIA - LOS ANGELES 2457
 DEVELOPMENT OF GLOBAL MAGNETOSPHERIC FIELD MODELS OF JUPITER
 05/15/2000 - 05/14/2002 FY01: \$84,428 Total: \$160,528
Prin. Invest.: K K KHURANA
Tech. Officer: GSFC/J SHARBER
CASE Category: 13 - PHYSICS

NAG 5 9573 UNIV OF CALIFORNIA - LOS ANGELES 2458
 TOWARD OTHER PLANETARY SYSTEMS: IMAGING OF MASSIVE PLANETS AND DUSTY DEBRIS DISKS
 05/08/2000 - 04/30/2001 FY01: \$0 Total: \$22,000
Prin. Invest.: B ZUCKERMAN
Tech. Officer: HQ/J M BOYCE
CASE Category: 13 - PHYSICS

NAG 5 9667 UNIV OF CALIFORNIA - LOS ANGELES 2459
 REMOTE SENSING OF THE OPTICAL & MICROPHYSICAL PROPERTIES OF CIRRUS CLOUDS USING MODIS CHANNELS
 05/30/2000 - 08/31/2001 FY01: \$40,000 Total: \$80,000
Prin. Invest.: K N LIU
Tech. Officer: GSFC/M KING
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9693 UNIV OF CALIFORNIA - LOS ANGELES 2460
 NEW ISTP SOLAR MAX: INTERACTIVE LEARNING DURING SOLAR MAX
 06/27/2000 - 06/30/2001 FY01: \$0 Total: \$50,313
Prin. Invest.: M ASHOUR-ABDALLA
Tech. Officer: GSFC/S CURTIS
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 9713 UNIV OF CALIFORNIA - LOS ANGELES 2461
 INFLUENCE OF LAND SURFACE PROCESSES/LAND COVER CHANGES IN AMAZON ON REGIONAL HYDRO-METEOROLOGY
 07/06/2000 - 03/14/2002 FY01: \$104,242 Total: \$246,426
Prin. Invest.: Y XUE
Tech. Officer: GSFC/P R HOUSER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9772 UNIV OF CALIFORNIA - LOS ANGELES 2462
 SOLAR MAX EXTENDED SCIENCE PROGRAM
 06/30/2000 - 06/30/2002 FY01: \$50,000 Total: \$100,000
Prin. Invest.: M ASHOUR-ABDALLA
Tech. Officer: GSFC/S CURTIS
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 9789 UNIV OF CALIFORNIA - LOS ANGELES 2463
 ISOTOPIC INVESTIGATIONS OF NEBULAR AND PARENT BODY PROCESSES
 WITH HIGH SENSITIVITY ION MICROPROBE
 07/11/2000 - 07/14/2002 FY01: \$109,000 Total: \$218,000
Prin. Invest.: K D MCKEEGAN
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 9826 UNIV OF CALIFORNIA - LOS ANGELES 2464
 THE LOCAL DISTANCE SCALE: APPLICATION OF THE TIP OF THE RED
 GIANT BRANCH DISTANCE INDICATOR - LTSA
 08/23/2000 - 08/31/2002 FY01: \$81,200 Total: \$159,900
Prin. Invest.: S SAKAI
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9860 UNIV OF CALIFORNIA - LOS ANGELES 2465
 OCEAN CARBON FLUX: TRANSPORT, & BURIAL WITHIN THE WESTERN &
 EASTERN U.S.COASTAL ZONES
 08/07/2000 - 06/30/2002 FY01: \$126,200 Total: \$208,200
Prin. Invest.: J MCWILLIAMS
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 39 - ENVIRONMENTALSCI, OTHER

NAG 5 10032 UNIV OF CALIFORNIA - LOS ANGELES 2466
 AN XMM LONG-LOOK AT NGC5548
 09/26/2000 - 09/30/2002 FY01: \$16,000 Total: \$46,500
Prin. Invest.: R EDELSON
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10282 UNIV OF CALIFORNIA - LOS ANGELES 2467
 MAGNETOHYDRODYNAMIC MODELING OF THE JOVIAN MAGNETO SPHERE
 01/23/2001 - 01/31/2002 FY01: \$89,771 Total: \$89,771
Prin. Invest.: R WALKER, NONE
Tech. Officer: GSFC/J SHARBER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10287 UNIV OF CALIFORNIA - LOS ANGELES 2468
 KINETIC PHYSICS OF THE STRESSED NEAR-EARTH PLASMA SHEET
 01/23/2001 - 01/31/2002 FY01: \$90,784 Total: \$90,784
Prin. Invest.: P L PRITCHETT
Tech. Officer: GSFC/J SHARBER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10351 UNIV OF CALIFORNIA - LOS ANGELES 2469
 SEARCH FOR MOLECULAR HYDROGEN AROUND VEGA-TYPE STARS
 02/08/2001 - 02/14/2002 FY01: \$69,500 Total: \$69,500
Prin. Invest.: M A JURA
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 10354 UNIV OF CALIFORNIA - LOS ANGELES 2470
 UCLA CLUSTER-II MISSION PARTICIPATION
 02/15/2001 - 02/14/2002 FY01: \$200,000 Total: \$200,000
Prin. Invest.: D G KIVELSON
Tech. Officer: GSFC/M ACUNA
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 10421 UNIV OF CALIFORNIA - LOS ANGELES 2471
 COSMOCHEMICAL STUDIES: METEORITES AND THEIR PARENT ASTEROIDS
 02/15/2001 - 01/31/2002 FY01: \$155,000 Total: \$155,000
Prin. Invest.: J WASSON
Tech. Officer: GSFC/D NAVA
CASE Category: 12 - CHEMISTRY

NAG 5 10473 UNIV OF CALIFORNIA - LOS ANGELES 2472
 MAGNETOSPHERE-IONOSPHERE COUPLING IN THE AURORAL ZONE
 02/27/2001 - 02/28/2002 FY01: \$75,407 Total: \$75,407
Prin. Invest.: D SCHRIVER
Tech. Officer: GSFC/J SPANN
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 10490 UNIV OF CALIFORNIA - LOS ANGELES 2473
 ACQUISITION OF A NEW ELECTRON MICROPROBE AT UCLA
 03/01/2001 - 02/28/2002 FY01: \$168,000 Total: \$168,000
Prin. Invest.: P WARREN
Tech. Officer: GSFC/J BOYCE
CASE Category: 12 - CHEMISTRY

NAG 5 10609 UNIV OF CALIFORNIA - LOS ANGELES 2474
 DETECTION AND MODELING OF MECHANICAL ICE BREAKUP I N LARGE
 POLAR RIVERS WITH SAR INTERFEROMETRY
 03/15/2001 - 03/14/2002 FY01: \$71,332 Total: \$71,332
Prin. Invest.: L SMITH
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10615 UNIV OF CALIFORNIA - LOS ANGELES 2475
 LOCAL INVERSIONS OF THE MARTIAN GRAVITY FIELD AND INTERPRETA-
 TIONS OF REGIONAL TECTONICS
 03/16/2001 - 03/14/2002 FY01: \$49,000 Total: \$49,000
Prin. Invest.: W MOORE
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 10663 UNIV OF CALIFORNIA - LOS ANGELES 2476
 ADAPTIVE OPTICS IMAGING OF MASSIVE PLANETARY COMPANIONS TO
 YOUNG STARS
 03/22/2001 - 06/30/2002 FY01: \$40,000 Total: \$40,000
Prin. Invest.: B ZUCKERMAN
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 10685 UNIV OF CALIFORNIA - LOS ANGELES 2477
 APPLICATIONS AND VALIDATION OF THE SRTM DEM IN THE AMAZON
 BASIN: HYDROLOGICAL AND GEOMORPHOLOGICAL
 03/30/2001 - 02/28/2002 FY01: \$150,000 Total: \$150,000
Prin. Invest.: D E ALSDORF
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 10834 UNIV OF CALIFORNIA - LOS ANGELES 2478
 SOLAR CYCLE VARIATION AND MULTI-POINT STUDIES OF ICME PROP-
 erties
 04/27/2001 - 04/30/2002 FY01: \$77,870 Total: \$77,870
Prin. Invest.: C T RUSSELL
Tech. Officer: GSFC/W J WAGNER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10905 UNIV OF CALIFORNIA - LOS ANGELES 2479
 TIME DEPENDENCE OF SOLAR MAGNETIC FIELDS
 05/22/2001 - 05/31/2002 FY01: \$95,500 Total: \$95,500
Prin. Invest.: R K ULRICH
Tech. Officer: GSFC/W J WAGNER
CASE Category: 11 - ASTRONOMY

NAG 5 10973 UNIV OF CALIFORNIA - LOS ANGELES 2480
 MARS POLAR PROPERTIES AND CLIMATE HISTORY
 05/24/2001 - 06/30/2002 FY01: \$75,000 Total: \$75,000
Prin. Invest.: D PAIGE
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 10986 UNIV OF CALIFORNIA - LOS ANGELES 2481
 SOLAR EFFECTS ON GLOBAL CLIMATE DUE TO COSMIC RAYS AND SOLAR
 ENERGETIC PARTICLES
 05/15/2001 - 05/14/2002 FY01: \$102,067 Total: \$102,067
Prin. Invest.: J RAEDER
Tech. Officer: GSFC/J F SPANN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 11102 UNIV OF CALIFORNIA - LOS ANGELES 2482
 TECTONICS AND VOLCANISM IN AFAR USING RADARSAT INT ERFERO-
 METRY DATA
 07/10/2001 - 06/30/2002 FY01: \$84,285 Total: \$84,285
Prin. Invest.: G PELTZER
Tech. Officer: GSFC/W ABDALATI
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 11210 UNIV OF CALIFORNIA - LOS ANGELES 2483
 DYNAMICAL STUDIES OF PLANETARY AND SATELLITE ATMO- SPHERES
 08/09/2001 - 08/14/2003 FY01: \$70,000 Total: \$70,000
Prin. Invest.: G SCHUBERT
Tech. Officer: GSFC/D J BOGAN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 11216 UNIV OF CALIFORNIA - LOS ANGELES 2484
 MAGNETOSPHERE-IONOSPHERE COUPLING IN THE JOVIAN AU RORAL
 ZONE
 08/13/2001 - 08/31/2004 FY01: \$80,000 Total: \$80,000
Prin. Invest.: R THORNE
Tech. Officer: GSFC/D BOGAN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 11363 UNIV OF CALIFORNIA - LOS ANGELES 2485
 APPLICATIONS OF REMOTELY SENSED LAND SURFACE DATA FOR
 SEASONAL AND LONG-TERM HYDROCLIMATE PREDICTION
 09/28/2001 - 09/30/2003 FY01: \$206,667 Total: \$206,667
Prin. Invest.: J KIM
Tech. Officer: GSFC/M JACKSON
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 9 1020 UNIV OF CALIFORNIA - LOS ANGELES 2486
 GENESIS DISCOVERY MISSION
 07/16/1998 - 03/04/2002 FY01: \$41,000 Total: \$213,600
Prin. Invest.: K D MCKEEGAN
Tech. Officer: JSC/E K STANSBERY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 9 1252 UNIV OF CALIFORNIA - LOS ANGELES 2487
 OPTICAL BIOSENSORS FOR IN FLIGHT MEASUREMENT OF HORMONES
 LEVELS
 08/15/2000 - 07/31/2003 FY01: \$73,120 Total: \$87,744
Prin. Invest.: B
Tech. Officer: JSC/C W LLOYD
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAS 4 00051 UNIV OF CALIFORNIA - LOS ANGELES 2488
 FORMATION FLIGHT TECHNOLOGY
 09/18/2000 - 09/30/2003 FY01: \$425,000 Total: \$460,000
Prin. Invest.: J L SPEYER
Tech. Officer: DFRC/G L SPEYER
CASE Category: 41 - AERONAUTICAL ENGR

NAS 5 00247 UNIV OF CALIFORNIA - LOS ANGELES 2489
 DESIGN, FABRICATION, & DELIVERY OF MAGNETOMETER SYSTEM FOR
 THE ST-5 MISSION.
 02/13/2001 - 08/01/2002 FY01: \$230,000 Total: \$230,000
Prin. Invest.: R J STRANGWAY
Tech. Officer: GSFC/A RUSSO
CASE Category: 41 - AERONAUTICAL ENGR

NCC 2 1050 UNIV OF CALIFORNIA - LOS ANGELES 2490
 ASTROBIOLOGY @ UCLA AN INTEGRATED MULTIDISCIPLINARY APPROACH
 TO RESEARCH & EDUCATION
 08/19/1998 - 06/30/2003 FY01: \$1,035,025 Total: \$2,523,373
Prin. Invest.: B RUNNEGAR
Tech. Officer: ARC/R A GRYMES, ARC/W W DOLCI
CASE Category: 59 - LIFE SCIENCE, OTHER

NCC 3 690 UNIV OF CALIFORNIA - LOS ANGELES 2491
 ACOUSTICALLY FORCED CONDENSED PHASE FUEL COMBUSTIO N UNDER
 MICRGRAVITY CONDITIONS
 03/22/1999 - 12/29/2001 FY01: \$145,897 Total: \$359,059
Prin. Invest.: O I SMITH
Tech. Officer: GRC/K SACKSTEDER
CASE Category: 49 - ENGINEERING, OTHER

NCC 4 121 UNIV OF CALIFORNIA - LOS ANGELES 2492
 FLIGHT SYSTEMS RESEARCH CENTER
 02/17/1999 - 10/31/2001 FY01: \$1,379,000 Total: \$3,869,530
Prin. Invest.: A V BALAKRISHNAN
Tech. Officer: SSC/K W IIIFF, SSC/R R MEYER
CASE Category: 49 - ENGINEERING, OTHER

NCC 5 149 UNIV OF CALIFORNIA - LOS ANGELES 2493
 GRAND CHALLENGE RESEARCH
 08/09/1996 - 06/30/2000 FY01: \$0 Total: \$2,000,000
Prin. Invest.: C MECHOSO
Tech. Officer: GSFC/J R FISCHER
CASE Category: 29 - MATH/COMPUTER SCI, OTHER

NCC 5 301 UNIV OF CALIFORNIA - LOS ANGELES 2494
 EARTH PARTNERS' PRIVATE NETWORK
 04/03/1998 - 02/28/2002 FY01: \$161,200 Total: \$2,443,600
Prin. Invest.: R MUNTZ
Tech. Officer: GSFC/M MAIDEN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 385 UNIV OF CALIFORNIA - LOS ANGELES 2495
 REMOTE SENSING OF CIRRUS CLOUDS AND RADIATION EFFECTS IN THE
 EVOLUTION OF CIRRUS CLOUDS
 04/01/1999 - 04/14/2002 FY01: \$0 Total: \$75,000
Prin. Invest.: K N LIU
Tech. Officer: GSFC/W LAU
CASE Category: 31 - ATMOSPHERIC SCIENCE

NGT 1 01039 UNIV OF CALIFORNIA - LOS ANGELES 2496
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) YR.2
 08/29/2001 - 06/30/2003 FY01: \$12,000 Total: \$12,000
Prin. Invest.: G CARMEN
Tech. Officer: LARC/R G BRYANT
CASE Category: 41 - AERONAUTICAL ENGR

NGT 1 52240 UNIV OF CALIFORNIA - LOS ANGELES 2497
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
 05/10/2000 - 06/30/2001 FY01: \$12,001 Total: \$22,001
Prin. Invest.: G P CARMEN
Tech. Officer: LARC/R G BRYANT, LARC/J S HARRISON
CASE Category: 47 - METAL & MATERIALS ENGR

NGT 2 52265 UNIV OF CALIFORNIA - LOS ANGELES 2498
 EFFECT OF SIMULATED MICROGRAVITY ON NT-3 EXPRESSION IN
 PROPRIOCEPTIVE AFFERENT NEURONS IN RATS
 07/14/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: V R EDGERTON, A J BIGBEE
Tech. Officer: ARC/R E GRINDELAND, ARC/E M HOLTON
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NGT 5 112 UNIV OF CALIFORNIA - LOS ANGELES 2499
 DECENTRALIZED CONTROL OF DISTRIBUTED SATELLITE NETWORKS,
 GSRP TRAINING GRANT. STUDENT: GENE BELAN
 08/18/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: J L SPEYER
Tech. Officer: GSFC/G A SOFFEN
CASE Category: 41 - AERONAUTICAL ENGR

NGT 5 117 UNIV OF CALIFORNIA - LOS ANGELES 2500
 COMBINING SPACE AND GROUND BASED PLASMASPHERIC OBSERVA-
 TIONS FOR UNDERSTANDING PLASMA MASS DENSITY
 06/04/2001 - 08/31/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: M MOLDWIN
Tech. Officer: GSFC/M S BURRELL
CASE Category: 13 - PHYSICS

NGT 5 30133 UNIV OF CALIFORNIA - LOS ANGELES 2501
 REMOTE SENSING OF CIRRUS CLOUDS USING MODIS AIRBORNE
 SIMULATOR (MAS) CHANNELS
 06/24/1998 - 08/31/2000 FY01: \$0 Total: \$44,000
Prin. Invest.: K LIU
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30215 UNIV OF CALIFORNIA - LOS ANGELES 2502
 INVESTIGATION OF AEROSOL/CLOUD INTERACTIONS USING A COUPLED
 HIGH-RESOLUTION DYNAMICS/MICROPHY
 08/24/1999 - 08/31/2000 FY01: \$0 Total: \$22,000
Prin. Invest.: R P TURCO
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30338 UNIV OF CALIFORNIA - LOS ANGELES 2503
 ESTIMATION OF THE TERRESTRIAL CARBON POOL & HYDROLOGIC SENSITIV-
 ITY OF THE WEST SIBERIAN LOWLAND/STU
 08/21/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: L SMITH
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30372 UNIV OF CALIFORNIA - LOS ANGELES 2504
 AN INVEST. OF CLOUD FEATURES IN HIGH-RESOL. INFRARED EMISSION
 SPECTRA: UNDERSTANDING RADIATIVE EFF
 08/13/2001 - 08/31/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: A ELDERING
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50187 UNIV OF CALIFORNIA - LOS ANGELES 2505
 A SEARCH FOR GIANT PLANETS ORBITING NEARBY STARS
 05/27/1998 - 06/30/2001 FY01: \$0 Total: \$65,625
Prin. Invest.: B ZUCKERMAN
Tech. Officer: GSFC/K BLANDING
CASE Category: 11 - ASTRONOMY

NGT 5 50202 UNIV OF CALIFORNIA - LOS ANGELES 2506
 NEUROMUSCULAR AND ENDOCRINE FACTORS IN WEIGHTLESSNESS-
 INDUCED ATROPHY/
 07/02/1998 - 07/31/2001 FY01: \$0 Total: \$63,333
Prin. Invest.: V EDGERTON
Tech. Officer: HQ/A NURRIDIN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50220 UNIV OF CALIFORNIA - LOS ANGELES 2507
 HEALTH MGMT SYSTEM DESIGN & INTELLIGENT CONTROL OF FUTURE
 MINIATURE AUTONOMOUS SPACECRAFTS UTIL
 09/23/1998 - 09/30/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: P WANG, ESHAGHI
Tech. Officer: HQ/S MCGEE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50310 UNIV OF CALIFORNIA - LOS ANGELES 2508
 PROXIMO-DISTAL PATTERNING IN MOLLUSCS AND ANNELIDS: IMPLICA-
 TIONS FOR LIMB EVOLUTION-STUDENT: SHANNON
 07/07/2000 - 06/30/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: D K JACOBS
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50332 UNIV OF CALIFORNIA - LOS ANGELES 2509
 A STUDY OF UNRESOLVED ISSUES REGARDING STRATOSPHERIC
 AEROSOL FORMATION, EVOLUTION & COMPOSITION BY
 08/17/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: R TURCO
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 50359 UNIV OF CALIFORNIA - LOS ANGELES 2510
 CASSINI MEASUREMENT OF MAGNETIC FIELDS WITHIN 2 SOLAR RADII-
 TUDENT: ELIZABETH JENSEN
 05/23/2001 - 08/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: C RUSSELLI
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 8 52844 UNIV OF CALIFORNIA - LOS ANGELES 2511
 GRADUATE STUDENT RESEARCH PROGRAM FELLOWSHIP
 08/22/1997 - 08/14/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: M A ABDU
Tech. Officer: MSFC/J DOWDY
CASE Category: 46 - MECHANICAL ENGR

NAG 5 5116 UNIV OF CALIFORNIA - RIVERSIDE 2512
 THE TIGRE INSTRUMENT FOR INTERMEDIATE - ENERGY GAMMA-RAY
 ASTRONOMY FROM 0.3 TO 100MEV
 04/09/1997 - 11/30/2002 FY01: \$712,510 Total: \$1,761,528
Prin. Invest.: A D ZYCH
Prin. Invest.: NONE
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/B A MERRITT
CASE Category: 13 - PHYSICS

NAG 5 5118 UNIV OF CALIFORNIA - RIVERSIDE 2513
 AN ARCSECOND RESOLUTION: AXGAM
 04/09/1997 - 06/30/2001 FY01: \$0 Total: \$600,000
Prin. Invest.: O T TUMER
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/B A MERRITT
CASE Category: 13 - PHYSICS

NAG 5 5211 UNIV OF CALIFORNIA - RIVERSIDE 2514
 ULDB COMPTON TELESCOPE MISSION ULDB COMPTON TELESCOPE
 MISSION
 09/17/1998 - 12/31/2001 FY01: \$0 Total: \$70,067
Prin. Invest.: A D ZYCHE
Tech. Officer: WFF/A B MERRITT
CASE Category: 11 - ASTRONOMY

NAG 5 5288 UNIV OF CALIFORNIA - RIVERSIDE 2515
 A HIGH RESOLUTION ALL-SKY X-RAY & GAMMA-RAY MONITOR (AXGAM)
 05/31/2000 - 05/17/2003 FY01: -\$20,600 Total: \$119,400
Prin. Invest.: T O TUMER
Tech. Officer: GSFC/B A MERRITT
CASE Category: 13 - PHYSICS

NAG 5 8682 UNIV OF CALIFORNIA - RIVERSIDE 2516
 SPACE-TIME DYNAMICS OF SOIL MOISTURE & TEMPERATURE -SCALE
 ISSUES
 07/15/1999 - 07/14/2002 FY01: \$92,493 Total: \$270,340
Prin. Invest.: B P MOHANTY
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9812 UNIV OF CALIFORNIA - RIVERSIDE 2517
 NON-ENZYMATIC OLIGOMERIZATION OF MONONUCLEOTIDES USING NON-
 STANDARD OLIGONUCLEOTIDE TEMPLATES
 07/19/2000 - 07/14/2002 FY01: \$70,000 Total: \$135,940
Prin. Invest.: C Y SWITZER
Tech. Officer: GSFC/M MEYER
CASE Category: 11 - ASTRONOMY

NAG 5 10932 UNIV OF CALIFORNIA - RIVERSIDE 2518
 PARTICLE ACCELERATION AND TRANSPORT
 05/30/2001 - 06/30/2002 FY01: \$123,311 Total: \$123,311
Prin. Invest.: G ZANK
Tech. Officer: GSFC/J GURMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 1 2044 UNIV OF CALIFORNIA - SAN DIEGO 2519
 RADIATIVE CHARACTER'S OF THE SURFACE & CLOUDS IN THE ARCTIC
 USING RESEARCH AIRCRAFT--NRA-94-MTPE-04
 04/03/1998 - 03/31/2002 FY01: \$60,000 Total: \$418,823
Prin. Invest.: F P VALERO, S K POPE, P J FLATAU
Tech. Officer: LARC/D S MCDUGAL, LARC/J RAPER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 2 1313 UNIV OF CALIFORNIA - SAN DIEGO 2520
 THE DEVELOPMENT OF PILOT EXPERTISE IN THE AIRBUS A 320 AIRCRAFT
 04/01/1999 - 01/31/2002 FY01: \$121,238 Total: \$297,084
Prin. Invest.: E L HUTCHINS
Tech. Officer: ARC/S M CASNER
CASE Category: 41 - AERONAUTICAL ENGR

NAG 2 1376 UNIV OF CALIFORNIA - SAN DIEGO 2521
 EVOLUTION OF NEURAL CREST & PLACODES: AMPHIOXUS A S A MODEL
 FOR THE ANCESTROOF THE VERTEBRATES
 08/17/1999 - 06/30/2002 FY01: \$75,228 Total: \$188,632
Prin. Invest.: L Z HOLLAND
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 3 1888 UNIV OF CALIFORNIA - SAN DIEGO 2522
 MATERIAL INSTABILITIES IN PARTICULATE SYSTEMS: UC SD 95-647R
 05/31/1996 - 06/30/2000 FY01: -\$3,259 Total: \$316,741
Prin. Invest.: J D GODDARD
Tech. Officer: GRC/M E HILL
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 3 2117 UNIV OF CALIFORNIA - SAN DIEGO 2523
 DYNAMICS OF ACCELERATED INTERFACES: PARAMETRIC EXC ITATION
 AND FLUID SLOSHINGIN CLOSED CONTAINERS A
 01/28/1998 - 12/18/2001 FY01: \$20,000 Total: \$233,000
Prin. Invest.: C POZRIKIDIS
Tech. Officer: GRC/J R SKARDA
CASE Category: 13 - PHYSICS

NAG 3 2465 UNIV OF CALIFORNIA - SAN DIEGO 2524
 VIBRATORY DYNAMICS AND TRANSPORT OF GRANULAR MEDIA AT
 VARIOUS G LEVELS
 06/19/2000 - 11/30/2003 FY01: \$76,000 Total: \$126,000
Prin. Invest.: J D GODDARD
Tech. Officer: GRC/M E HILL
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2554 UNIV OF CALIFORNIA - SAN DIEGO 2525
 STRETCHED DIFFUSION FLAMES IN VON KARMAN SWIRLING FLOWS
 03/15/2001 - 11/30/2004 FY01: \$9,900 Total: \$9,900
Prin. Invest.: F WILLIAMS
Tech. Officer: GRC/K R SACKSTEDER
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 3528 UNIV OF CALIFORNIA - SAN DIEGO 2526
 ASSESSMENT OF CLIMATIC AND ANTHROPOGENIC IMPACTS O CYCLE
 CONSTRAINED BY ATMOSPHERIC MEASUREMENTS AND
 11/18/1996 - 07/31/2000 FY01: \$0 Total: \$609,000
Prin. Invest.: D D KEELING
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 3944 UNIV OF CALIFORNIA - SAN DIEGO 2527
 DEVELOPMENT OF A PIXON-BASED IMAGE RECONSTRUCTION USER
 COMMUNITY
 03/04/1997 - 02/29/2000 FY01: \$0 Total: \$335,000
Prin. Invest.: D C PUETTER
Tech. Officer: GSFC/J BREDEKAMP
CASE Category: 22 - COMPUTER SCIENCE

NAG 5 4023 UNIV OF CALIFORNIA - SAN DIEGO 2528
 ADVANCED GLOBAL ATMOSPHERIC GASES EXPERIMENT (AGAG)
 03/25/1997 - 12/31/2001 FY01: \$487,435 Total: \$2,337,919
Prin. Invest.: R F WEISS
Tech. Officer: GSFC/M J KURYLO
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 4284 UNIV OF CALIFORNIA - SAN DIEGO 2529
 THE ORION PHENOMENON: PARTICLE FLUENCES IN THE SO
 04/01/1997 - 02/29/2000 FY01: \$0 Total: \$100,000
Prin. Invest.: D MARTI
Tech. Officer: GSFC/D NAVA
CASE Category: 11 - ASTRONOMY

NAG 5 4546 UNIV OF CALIFORNIA - SAN DIEGO 2530
 NASA SPECIALIZED CENTER OF RESEARCH AND TRAINING I THE CHEM-
 ISTRY OF EARLY SELF-REPLICATING SYSTEMS
 05/06/1997 - 03/31/2002 FY01: \$950,000 Total: \$4,716,000
Prin. Invest.: P L BADA, NONE
Tech. Officer: HQ/M MEYER
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 5 4574 UNIV OF CALIFORNIA - SAN DIEGO 2531
 METEORITIC SULFUR ISOTOPIC ANALYSIS
 07/07/1997 - 02/28/2002 FY01: \$35,000 Total: \$172,000
Prin. Invest.: D H THIEMENS
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 4648 UNIV OF CALIFORNIA - SAN DIEGO 2532
 MICROGRAVITY IN VITRO MODEL OF BONE: FLOW EFFECTS
 06/11/1997 - 05/31/2000 FY01: \$0 Total: \$421,536
Prin. Invest.: J A FRANGOS
Tech. Officer: GSFC/M AVERNER
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 5 4658 UNIV OF CALIFORNIA - SAN DIEGO 2533
 THEORETICAL STUDIES OF MAGNETIC RECONNECTION
 06/09/1997 - 05/14/2001 FY01: \$0 Total: \$243,248
Prin. Invest.: D B QUEST
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 - PHYSICS

NAG 5 4775 UNIV OF CALIFORNIA - SAN DIEGO 2534
 AN INTEGRATED SYSTEM FOR WATER BUDGET CLOSURE OVER MASS: A
 TRMM VALIDATION EFFORT
 07/15/1997 - 06/30/2001 FY01: \$0 Total: \$173,000
Prin. Invest.: J O ROADS
Tech. Officer: GSFC/O W THIELE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 4938 UNIV OF CALIFORNIA - SAN DIEGO 2535
 MICRO-DETECTION SYSTEM FOR DETERMINATION OF THE BI OF AMINO
 ACIDS
 06/23/1997 - 05/31/2001 FY01: \$0 Total: \$130,000
Prin. Invest.: P L BADA
Tech. Officer: GSFC/B CAMPBELL
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 5111 UNIV OF CALIFORNIA - SAN DIEGO 2536
 BALLOON-BORNE HIGH ENERGY X-RAY SPECTROMETER (HEXIS) BASED
 ON CZT TECHNOLOGY
 04/07/1997 - 04/30/2001 FY01: \$0 Total: \$1,072,750
Prin. Invest.: J L MATTESON
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/B A MERRITT
CASE Category: 13 - PHYSICS

NAG 5 5176 UNIV OF CALIFORNIA - SAN DIEGO 2537
 GLOBAL BATHYMETRIC PREDICTION FOR OCEAN MODELING A
 07/17/1997 - 07/14/2001 FY01: \$0 Total: \$148,524
Prin. Invest.: D T SANDWELL
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 5266 UNIV OF CALIFORNIA - SAN DIEGO 2538
 CRYOGENIC WHOLE AIR SAMPLING OF CARBON DIOXIDE IN THE UPPER
 ATMOSPHERE
 06/01/2000 - 05/24/2003 FY01: \$55,900 Total: \$106,600
Prin. Invest.: M H THIEMENS
Tech. Officer: GSFC/J C BRINTON
CASE Category: 13 - PHYSICS

NAG 5 5287 UNIV OF CALIFORNIA - SAN DIEGO 2539
 BALLOON-BORNE HIGH ENERGY X-RAY IMAGING SPECTROMETER
 (HEXIS) BASED ON CZT TECHNOLOGY
 05/31/2000 - 05/17/2003 FY01: \$0 Total: \$145,000
Prin. Invest.: J L MATTESON
Tech. Officer: GSFC/B A MERRITT
CASE Category: 13 - PHYSICS

NAG 5 5332 UNIV OF CALIFORNIA - SAN DIEGO 2540
 FULL FUNDING FOR THE 1ST YEAR, GRANT AMOUNT IS 70K , PI:LINGEN-
 FELTERTITLE: NEW THEORETICAL STUD
 05/30/2001 - 02/28/2004 FY01: \$70,000 Total: \$70,000
Prin. Invest.: D LINGENFELTER
Tech. Officer: WFF/B MERRITT
CASE Category: 11 - ASTRONOMY

NAG 5 6135 UNIV OF CALIFORNIA - SAN DIEGO 2541
 VALIDATING THE USEFULNESS OF THE COMBINED GMS & GO FOR LONG-
 TERM GLOBAL CLIMATE CHANGE STUDIES
 08/13/1997 - 06/30/2001 FY01: \$0 Total: \$485,000
Prin. Invest.: J J SIMPSON
Tech. Officer: GSFC/J C DODGE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 6149 UNIV OF CALIFORNIA - SAN DIEGO 2542
 OCEAN TIDE LOADING COMPUTATION
 08/21/1997 - 08/31/2001 FY01: \$0 Total: \$41,810
Prin. Invest.: D C AGNEW
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 6150 UNIV OF CALIFORNIA - SAN DIEGO 2543
 SEAFLOOR GEODETIC MONITORING USING GPS AND ACOUSTIC ATION TO
 NATURAL HAZARDS ON THE SE FLANK OF HAWAI
 08/21/1997 - 08/31/2000 FY01: \$0 Total: \$524,757
Prin. Invest.: J B RAND
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 6179 UNIV OF CALIFORNIA - SAN DIEGO 2544
 CONTINUOUS REMOTE MEASUREMENTS OF ATMOSPHERIC O₂ C RELA-
 TION TO INTERANNUAL VARIATIONS IN BIOLOGICAL
 08/19/1997 - 08/14/2001 FY01: \$0 Total: \$407,349
Prin. Invest.: R KEELING
Tech. Officer: GSFC/J A YODER
CASE Category: 33 - OCEANOGRAPHY

NAG 5 6202 UNIV OF CALIFORNIA - SAN DIEGO 2545
 EFFECTS OF WHITECAPS ON SATELLITE-DERIVED OCEAN COLOR
 10/02/1997 - 12/31/2000 FY01: \$0 Total: \$490,000
Prin. Invest.: R FROUIN
Tech. Officer: GSFC/J A YODER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6375 UNIV OF CALIFORNIA - SAN DIEGO 2546
 BIOGEOCHEMICAL RESPONSE TO MESOSCALE PHYSICAL FORC ING IN
 THE CALIFORNIA CURRENT SYSTEM
 10/03/1997 - 03/31/2001 FY01: \$0 Total: \$424,978
Prin. Invest.: P MILLER
Tech. Officer: GSFC/J A YODER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 6414 UNIV OF CALIFORNIA - SAN DIEGO 2547
 MODELING UV-B EFFECTS ON PRIMARY PRODUCTION THROU HOUT THE
 SOUTHERNOCEAN USING MULTI-SENSOR SA
 10/29/1997 - 10/31/2001 FY01: \$0 Total: \$396,868
Prin. Invest.: D LUBIN
Tech. Officer: GSFC/K ARRIGO
CASE Category: 54 - ENVIRONMENTAL BIOLOGY

NAG 5 6466 UNIV OF CALIFORNIA - SAN DIEGO 2548
 OPTICAL AND ANCILLARY MEASUREMENTS AT HIGH LATITUD ES IN
 SUPPORT OF THE MODIS OCEAN VALIDATION
 11/04/1997 - 09/30/2001 FY01: \$0 Total: \$224,288
Prin. Invest.: D STRAMSKI
Tech. Officer: GSFC/D STARR
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 6497 UNIV OF CALIFORNIA - SAN DIEGO 2549
 PREDICTABILITY OF THE CALIFORNIA CURRENT SYSTEM
 10/08/1997 - 10/14/2001 FY01: \$0 Total: \$633,198
Prin. Invest.: D MILLER
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6559 UNIV OF CALIFORNIA - SAN DIEGO 2550
 SEASONAL TO DECADAL-SCALE VARIABILITY IN SATELLITE OCEAN
 COLOR AND SEA SURFACE TEMPERATURE FOR THE
 10/27/1997 - 04/30/2001 FY01: \$0 Total: \$352,860
Prin. Invest.: B MITCHELL
Tech. Officer: GSFC/J YODER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6668 UNIV OF CALIFORNIA - SAN DIEGO 2551
 SOUTHERN OCEAN SEASONAL NET PRODUCTION FROM ATMOSP HERE
 AND OCEAN DATASETS
 11/26/1997 - 06/30/2001 FY01: \$0 Total: \$311,173
Prin. Invest.: R F KEELING
Tech. Officer: GSFC/J CAMPBELL
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6947 UNIV OF CALIFORNIA - SAN DIEGO 2552
 NUMERICAL AND ANALYTICAL STUDIES OF THE SHOCKED SO LAR WIND
 INTERACTION WITH THE DAYSID E MANTLE OF V
 02/26/1998 - 03/31/2002 FY01: \$0 Total: \$235,914
Prin. Invest.: K QUEST
Tech. Officer: GSFC/D EVANS
CASE Category: 11 - ASTRONOMY

NAG 5 7000 UNIV OF CALIFORNIA - SAN DIEGO 2553
 HIGH RESOLUTION STUDY OF THE X-RAY TURN-ON IN HER X-1
 02/06/1998 - 08/14/2001 FY01: \$0 Total: \$14,739
Prin. Invest.: D GRUBER
Tech. Officer: GSFC/J SWANK
CASE Category: 11 - ASTRONOMY

NAG 5 7045 UNIV OF CALIFORNIA - SAN DIEGO 2554
 THEORETICAL STUDIES IN COSMIC RAY AND GAMMA RAY AS TROPHYSICS
 AND LIGHT ELEMENT NUCLEOSYNTHESIS -
 03/18/1998 - 02/28/2001 FY01: \$0 Total: \$188,290
Prin. Invest.: R E LINGENFELTER
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 7096 UNIV OF CALIFORNIA - SAN DIEGO 2555
 ANOMALOUS HEAT BUDGETS IN INTERIOR PACIFIC OCEAN ON SEASONAL
 TO INTERANNUAL TIMESCALES
 05/27/1998 - 03/31/2002 FY01: \$33,470 Total: \$379,886
Prin. Invest.: W WHITE
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 33 - OCEANOGRAPHY

NAG 5 7100 UNIV OF CALIFORNIA - SAN DIEGO 2556
 OPTICAL MEASUREMENTS AND MODELING TO ESTIMATE CONC ENTRA-
 TIONS AND FLUXES OF ORGANIC MATTER IN THE SO
 06/04/1998 - 05/31/2001 FY01: \$0 Total: \$469,864
Prin. Invest.: D STRAMSKI
Tech. Officer: GSFC/J W CAMPBELL
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7119 UNIV OF CALIFORNIA - SAN DIEGO 2557
 ANALYSIS OF SKY FLUCTUATIONS FROM HEXTE III; EXAMI NATION OF THE
 CYCLOTRON LINES IN THE SPECTRUM OF
 04/16/1998 - 03/31/2001 FY01: \$0 Total: \$26,128
Prin. Invest.: D E GRIBER
Tech. Officer: GSFC/K SWANK
CASE Category: 11 - ASTRONOMY

NAG 5 7295 UNIV OF CALIFORNIA - SAN DIEGO 2558
 CORONAL RECONSTRUCTION USING LASCO AND UVCS OBSERV ATIONS
 04/13/1998 - 10/31/1999 FY01: -\$108 Total: \$79,892
Prin. Invest.: P HICK
Tech. Officer: GSFC/W WAGNER
CASE Category: 11 - ASTRONOMY

NAG 5 7362 UNIV OF CALIFORNIA - SAN DIEGO 2559
 ASCA PROPOSAL - ASCA AND HST OBSERVATIONS OF BL LA C 0236+164
 AND THE INTERVENING SYSTEM
 05/05/1998 - 04/30/2002 FY01: \$0 Total: \$14,000
Prin. Invest.: R D COHEN
Tech. Officer: GSFC/N WHITE
CASE Category: 11 - ASTRONOMY

NAG 5 7612 UNIV OF CALIFORNIA - SAN DIEGO 2560
 IMPROVED SPECTRAL CHARACTERIZATION OF THE GEOMAGNETIC
 FIELD (SENH98-0124)
 07/24/1998 - 05/31/2002 FY01: \$37,000 Total: \$224,000
Prin. Invest.: R L PARKER
Prin. Invest.: NONE
Tech. Officer: GSFC/H B FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 7614 UNIV OF CALIFORNIA - SAN DIEGO 2561
 FUNDING FOR "EARTH CONDUCTIVITY FROM SATELLITE MAGNETIC
 DATA" (SENH98-0123)
 07/24/1998 - 07/14/2002 FY01: \$42,000 Total: \$254,000
Prin. Invest.: C G CONSTABLE
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 7637 UNIV OF CALIFORNIA - SAN DIEGO 2562
 CO2 BUDGET AND ATMOSPHERIC RECTIFICATION OVER NORTH AMERICA
 (CO2BAR)
 11/30/1998 - 11/30/2001 FY01: \$20,000 Total: \$65,000
Prin. Invest.: R F KEELING
Tech. Officer: GSFC/D E WICKLANS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7653 UNIV OF CALIFORNIA - SAN DIEGO 2563
 QUANTITATIVE ASSESSMENT OF THE INTEGRATED RESPONSE IN GLOBAL
 HEAT AND MOISTURE BUDGETS TO CHANGING
 08/25/1998 - 08/31/2001 FY01: \$0 Total: \$210,000
Prin. Invest.: W WHITE
Tech. Officer: HQ/D EVANS
CASE Category: 11 - ASTRONOMY

NAG 5 7836 UNIV OF CALIFORNIA - SAN DIEGO 2564
 CORONAL SPEEDS DETERMINED FROM CORRELATION TECHNIQUES
 APPLIED TO LASCO IMAGES
 12/14/1998 - 12/14/2000 FY01: \$0 Total: \$80,000
Prin. Invest.: B V JACKSON
Tech. Officer: GSFC/J GURMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 7887 UNIV OF CALIFORNIA - SAN DIEGO 2565
 SPECTRAL TESTS OF THE HOMOGENEITY OF BRIGHT GRBs
 12/02/1998 - 11/30/1999 FY01: \$0 Total: \$5,000
Prin. Invest.: J SISTERSON
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8167 UNIV OF CALIFORNIA - SAN DIEGO 2566
 FRAGMENTARY SOLAR SYSTEM HISTORY
 02/10/1999 - 01/31/2002 FY01: \$120,000 Total: \$359,000
Prin. Invest.: D MARTI
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8172 UNIV OF CALIFORNIA - SAN DIEGO 2567
 ISOTOPIC, CHEMICAL AND MINERALOGICAL INVESTIGATIONS OF
 EXTRATERRESTRIAL MATERIALS
 02/24/1999 - 02/28/2002 FY01: \$280,000 Total: \$775,000
Prin. Invest.: G W LUNGMAIR
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8180 UNIV OF CALIFORNIA - SAN DIEGO 2568
 ADVANCED GLOBAL ATMOSPHERIC GASES EXPERIMENT (AGAGE)
 02/12/1999 - 12/31/2001 FY01: \$86,003 Total: \$264,192
Prin. Invest.: R F WEISS
Tech. Officer: GSFC/P DECOLA
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8252 UNIV OF CALIFORNIA - SAN DIEGO 2569
 ANTARCTIC ULTRAVIOLET RADIATION CLIMATOLOGY FROM THE TOTAL
 ZONE MAPPING SPECTROMETER
 02/19/1999 - 02/28/2002 FY01: \$95,000 Total: \$285,000
Prin. Invest.: D LUBIN
Tech. Officer: GSFC/J R HERMAN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 8272 UNIV OF CALIFORNIA - SAN DIEGO 2570
 A SEARCH FOR EXTRASOLAR PLANETS IN OPEN CLUSTERS
 03/05/1999 - 02/28/2002 FY01: \$49,000 Total: \$133,400
Prin. Invest.: D GUIRRENBACH
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8292 UNIV OF CALIFORNIA - SAN DIEGO 2571
 SEASONAL ATMOSPHERIC AND OCEANIC PREDICTIONS
 02/25/1999 - 02/28/2002 FY01: \$140,000 Total: \$420,000
Prin. Invest.: J O ROADS
Tech. Officer: GSFC/M REINECKER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 8322 UNIV OF CALIFORNIA - SAN DIEGO 2572
 BAYESIAN HIERARCHICAL AIR-SEA INTERACTION MODELING: APPLICATION
 TO THE LABRADOR SEA
 04/13/1999 - 05/31/2002 FY01: \$6,322 Total: \$62,574
Prin. Invest.: P NILER
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8351 UNIV OF CALIFORNIA - SAN DIEGO 2573
 THE APPLICATION OF JASON-1 MEASUREMENTS TO ESTIMATE THE
 GLOBAL NEARSURFACE OCEAN CIRCULATION
 03/01/1999 - 03/31/2002 FY01: \$102,000 Total: \$354,000
Prin. Invest.: P P NILER
Tech. Officer: GSFC/C KOBLINSKY
CASE Category: 33 - OCEANOGRAPHY

NAG 5 8498 UNIV OF CALIFORNIA - SAN DIEGO 2574
 THE HIGH ENERGY X-RAY IMAGING SURVEY (HEXIS)
 05/27/1999 - 11/30/2001 FY01: \$0 Total: \$755,000
Prin. Invest.: R E ROTHSCCHILD
Tech. Officer: GSFC/L KALUZIENSKI
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 8504 UNIV OF CALIFORNIA - SAN DIEGO 2575
 RECONSTRUCTION OF THE PLASMA DISTRIBUTION IN CORON A AND
 HELIOSPHERER
 05/11/1999 - 04/30/2002 FY01: \$129,251 Total: \$249,053
Prin. Invest.: B V JACKSON
Tech. Officer: GSFC/W WAGNER
CASE Category: 11 - ASTRONOMY

NAG 5 8551 UNIV OF CALIFORNIA - SAN DIEGO 2576
 ORGANIC CONSTITUENTS OF SHORT-PERIOD COMETS
 06/04/1999 - 05/31/2001 FY01: \$0 Total: \$144,722
Prin. Invest.: M N FOMENKOVA
Tech. Officer: GSFC/M MEYER
CASE Category: 11 - ASTRONOMY

NAG 5 8610 UNIV OF CALIFORNIA - SAN DIEGO 2577
 ANALYSIS & INTERPRETATION OF LUNAR PROSPECTOR GRS/ NS DATA
 06/10/1999 - 06/30/2000 FY01: \$0 Total: \$15,000
Prin. Invest.: J R ARNOLD
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8623 UNIV OF CALIFORNIA - SAN DIEGO 2578
 NUMERICAL CLIMATE OBSERVING NETWORK DESIGN STUDY
 08/09/1999 - 08/31/2002 FY01: \$147,924 Total: \$341,722
Prin. Invest.: D STAMMER
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8731 UNIV OF CALIFORNIA - SAN DIEGO 2579
 ADVANCED CADMIUM-ZINC-TELLURIDE DETECTORS FOR RESE ARCH IN
 ASTROPHYSICS
 08/17/1999 - 08/14/2002 FY01: \$103,315 Total: \$260,577
Prin. Invest.: J L MATTESON
Tech. Officer: GSFC/F A HERRERO
CASE Category: 11 - ASTRONOMY

NAG 5 8768 UNIV OF CALIFORNIA - SAN DIEGO 2580
 DYNAMIC HUMAN-CENTERED INTERFACES: MONITORING ATTE NTIONAL
 PROCESSES IN CONTROL OF CRITICAL SYSTEMS
 08/26/1999 - 08/31/2001 FY01: \$116,334 Total: \$315,345
Prin. Invest.: T JUNG
Tech. Officer: GSFC/R CROUCH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 8780 UNIV OF CALIFORNIA - SAN DIEGO 2581
 ROUTINE HIGH-RESOLUTION, ATMOSPHERIC FORCAST/ANALY SIS
 MODELING SYSTEMS FOR THE PACIFIC DISASTER CE
 08/30/1999 - 08/31/2001 FY01: \$0 Total: \$575,555
Prin. Invest.: J ROADS
Tech. Officer: GSFC/E PAYLOR
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8901 UNIV OF CALIFORNIA - SAN DIEGO 2582
 ESTIMATING THE OCEAN FLOW FIELD FROM COMBINED SEA SURFACE
 TEMPERATURE AND SEASURFACE HEIGHT DATA
 01/04/2000 - 01/14/2002 FY01: \$18,380 Total: \$161,672
Prin. Invest.: D STAMMER
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9005 UNIV OF CALIFORNIA - SAN DIEGO 2583
 ANALYSIS AND INTERPRETATION OF NEAR XGRS DATA
 01/27/2000 - 01/31/2002 FY01: \$0 Total: \$15,000
Prin. Invest.: J R ARNOLD
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 - ASTRONOMY

NAG 5 9036 UNIV OF CALIFORNIA - SAN DIEGO 2584
 MEASUREMENT OF ELECTRIC FIELDS WITH MULTIPLE SPREAD ELECTRON
 BEAMS
 02/10/2000 - 02/14/2002 FY01: \$0 Total: \$92,500
Prin. Invest.: C MCILWAIN
Tech. Officer: GSFC/J SHARBER
CASE Category: 11 - ASTRONOMY

NAG 5 9122 UNIV OF CALIFORNIA - SAN DIEGO 2585
 PROBING THE SPECTRAL EVOLUTION OF PARTICLES IN THE BLAZAR MKN
 421_ADP99
 03/07/2000 - 03/14/2002 FY01: \$0 Total: \$49,592
Prin. Invest.: R ROTHSCCHILD
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9224 UNIV OF CALIFORNIA - SAN DIEGO 2586
 COSMOLOGICAL PARAMETERS FROM THE LYMAN-ALPHA FOREST (LTS A
 99)
 03/14/2000 - 03/14/2001 FY01: \$0 Total: \$87,973
Prin. Invest.: D TYTLER
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9247 UNIV OF CALIFORNIA - SAN DIEGO 2587
 THERMAL & NONTHERMAL COMPONENTS IN THE SPECTRA OF A2319 &
 A1367 FROM RXTE & SAX OBSERVATIONS (ADP 99
 03/14/2000 - 03/14/2002 FY01: \$0 Total: \$49,739
Prin. Invest.: Y REPHAELI
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9314 UNIV OF CALIFORNIA - SAN DIEGO 2588
 3-D GLOBAL KINETIC SIMULATIONS OF SOLAR WIND INTER ACTION WITH
 ASTEROIDS: DETERMINATION OF MAGNETIC P
 03/23/2000 - 09/14/2001 FY01: \$0 Total: \$89,723
Prin. Invest.: N OMIDI
Tech. Officer: GSFC/T MORGAN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9423 UNIV OF CALIFORNIA - SAN DIEGO 2589
 TOMOGRAPHIC ANALYSIS AND VISUALIZATION OF REMOTELY -SENSED
 HELIOSPHERIC DATA
 04/13/2000 - 04/30/2002 FY01: \$99,400 Total: \$197,400
Prin. Invest.: B V JACKSON
Tech. Officer: GSFC/P HUNTER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9506 UNIV OF CALIFORNIA - SAN DIEGO 2590
 THE PIXON METHOD FOR DATA COMPRESSION, IMAGE CLASSIFICATION,
 AND IMAGE RECONSTRUCTION
 04/26/2000 - 04/30/2002 FY01: \$0 Total: \$100,000
Prin. Invest.: R P PUETTER
Tech. Officer: GSFC/J BREDEKAMP
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9566 UNIV OF CALIFORNIA - SAN DIEGO 2591
 EMERGENCE OF RNA AND EARLY LIFE; EXPERIMENTAL MODELING AND
 GEOCHEMICAL CONSTRAINTS
 05/05/2000 - 05/14/2001 FY01: \$0 Total: \$80,000
Prin. Invest.: G ARRHENIUS
Tech. Officer: GSFC/M MEYER
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 5 9623 UNIV OF CALIFORNIA - SAN DIEGO 2592
 TOPOGRAPHIC RECOVERY FROM SPACEBORNE RADAR & LASED RANGING:
 VALIDATION & INVESTIGATION OF PLATE BOUNDARIES
 06/12/2000 - 05/31/2002 FY01: \$40,000 Total: \$80,000
Prin. Invest.: D T SANDWELL
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 9659 UNIV OF CALIFORNIA - SAN DIEGO 2593
 MICRO-DETECTION SYSTEM FOR DETERMINATION OF THE BIOTIC OR
 ABIOTIC ORIGIN OF AMINO ACIDS
 05/31/2000 - 05/31/2002 FY01: \$0 Total: \$100,000
Prin. Invest.: J L BADA
Tech. Officer: GSFC/B BETTS
CASE Category: 11 - ASTRONOMY

NAG 5 9679 UNIV OF CALIFORNIA - SAN DIEGO 2594
 ISOTOPIC FRACTIONATION PROCESSES DURING PRE-SOLAR GRAIN
 FORMATION
 06/15/2000 - 06/14/2001 FY01: \$0 Total: \$35,000
Prin. Invest.: M H THIEMENS
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 9721 UNIV OF CALIFORNIA - SAN DIEGO 2595
 A PHYSICALLY BASED APPROACH TO CONSTRUCTION OF A CLIMATE-
 QUALITY SST RECORD FROM COMPLEMENTARY SPATIAL DATA
 06/22/2000 - 06/30/2002 FY01: \$157,500 Total: \$270,000
Prin. Invest.: J J SIMPSON, NONE
Tech. Officer: GSFC/J DODGE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9788 UNIV OF CALIFORNIA - SAN DIEGO 2596
 OCEAN CARBON FLUX: TRANSPORTS & BURIAL WITHIN THE WESTERN &
 EASTERN U.S. COASTAL ZONES
 07/28/2000 - 07/31/2002 FY01: \$97,500 Total: \$191,250
Prin. Invest.: A MILLER
Tech. Officer: GSFC/E LINSTROM
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9825 UNIV OF CALIFORNIA - SAN DIEGO 2597
 RXTE OBSERVATIONS OF AGN (ADP 99)
 08/15/2000 - 08/14/2001 FY01: \$0 Total: \$20,000
Prin. Invest.: P R BLANCO
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 10065 UNIV OF CALIFORNIA - SAN DIEGO 2598
 INVESTIGATING THE GROUNDING ZONE & TIDAL RESPONSE OF THE
 AMERY ICE SHELF, EAST ANTARCTICA, USING
 11/20/2000 - 11/30/2001 FY01: \$63,619 Total: \$63,619
Prin. Invest.: D SANDWELL
Tech. Officer: GSFC/K PARTINGTON
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10276 UNIV OF CALIFORNIA - SAN DIEGO 2599
 SEASONAL TO DECADEAL-SCALE VARIABILITY IN SATELLITE OCEAN COLOR
 & SEA SURFACE TEMPERATURE FOR CALIFORNIA
 01/19/2001 - 04/30/2002 FY01: \$111,000 Total: \$111,000
Prin. Invest.: B MITCHELL
Tech. Officer: GSFC/J MARRA
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10487 UNIV OF CALIFORNIA - SAN DIEGO 2600
 ISOTOPIC FRACTIONATION PROCESSES DURING PRE-SOLAR GRAIN
 FORMATION
 02/27/2001 - 04/30/2002 FY01: \$35,000 Total: \$35,000
Prin. Invest.: M H THIEMENS
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 10644 UNIV OF CALIFORNIA - SAN DIEGO 2601
 PENETRATION OF UV RADIATION IN THE EARTH'S OCEANS (YR 1 OF 3)
 03/21/2001 - 03/31/2002 FY01: \$87,554 Total: \$87,554
Prin. Invest.: G MITCHELL
Tech. Officer: GSFC/J R HERMAN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 10667 UNIV OF CALIFORNIA - SAN DIEGO 2602
 NITROGEN, CARBON AND PHOSPHATE IN THE OLDEST PRESERVED
 CRUST OF THE EARTH
 03/21/2001 - 03/31/2002 FY01: \$125,500 Total: \$125,500
Prin. Invest.: G ARRHENIUS
Tech. Officer: GSFC/M MEYER
CASE Category: 11 - ASTRONOMY

NAG 5 10669 UNIV OF CALIFORNIA - SAN DIEGO 2603
 NATIONAL SUMMIT ON INNOVATION WEBCAST
 03/23/2001 - 03/31/2002 FY01: \$94,285 Total: \$94,285
Prin. Invest.: E FURTEK
Tech. Officer: GSFC/J GASCH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10691 UNIV OF CALIFORNIA - SAN DIEGO 2604
 A UNIFORM STUDY OF X-RAY PULSAR MAGNETIC FIELDS
 04/09/2001 - 04/14/2002 FY01: \$67,669 Total: \$67,669
Prin. Invest.: W HEINDL
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 10737 **UNIV OF CALIFORNIA - SAN DIEGO** **2605**
 TIME SERIES OF CONTINUOUS MEASUREMENTS OF ATMOSPHERIC O₂
 AND CO₂ CONCENTRATIONS FOR ELUCIDATING
 04/20/2001 - 04/30/2002 FY01: \$238,308 Total: \$238,308
Prin. Invest.: R KEELING
Tech. Officer: GSFC/J MARRA
CASE Category: 33 - OCEANOGRAPHY

NAG 5 10871 **UNIV OF CALIFORNIA - SAN DIEGO** **2606**
 NONTHERMAL PHENOMENA IN CLUSTERS OF GALAXIES (LTSA 2000)
 05/10/2001 - 05/31/2002 FY01: \$58,954 Total: \$58,954
Prin. Invest.: Y REPHAELI, NONE
Tech. Officer: GSFC/R OLIVERSON
CASE Category: 11 - ASTRONOMY

NAG 5 10874 **UNIV OF CALIFORNIA - SAN DIEGO** **2607**
 SOLAR WIND FLOWS FROM ACTIVE REGIONS
 05/14/2001 - 05/31/2002 FY01: \$80,102 Total: \$80,102
Prin. Invest.: P HICK
Tech. Officer: GSFC/J GURMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 10886 **UNIV OF CALIFORNIA - SAN DIEGO** **2608**
 STATE TRANSITIONS AND QPOS IN X-RAY TRANSIENTS (ADP 00)
 05/03/2001 - 05/14/2002 FY01: \$37,558 Total: \$37,558
Prin. Invest.: J TOMSICK
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 10968 **UNIV OF CALIFORNIA - SAN DIEGO** **2609**
 THE RESPONSE TO CZT DETECTORS TO X-RAYS
 06/06/2001 - 06/14/2002 FY01: \$51,827 Total: \$51,827
Prin. Invest.: R E ROTHSCCHILD
Tech. Officer: GSFC/F HERRERO
CASE Category: 11 - ASTRONOMY

NAG 5 10993 **UNIV OF CALIFORNIA - SAN DIEGO** **2610**
 KINETIC INTERACTION OF THE PLASMA MANTLES OF UNMAGNETIZED
 PLANETS WITH THE SOLAR WIND
 05/31/2001 - 05/31/2002 FY01: \$39,000 Total: \$39,000
Prin. Invest.: K QUEST
Tech. Officer: GSFC/J SHARBER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 11123 **UNIV OF CALIFORNIA - SAN DIEGO** **2611**
 MODEL HELIOSPHERIC DISTURBANCE PROPAGATION USING REMOTE
 SENSING OBSERVATIONS
 07/18/2001 - 07/14/2002 FY01: \$100,000 Total: \$100,000
Prin. Invest.: B V JACKSON
Tech. Officer: GSFC/W J WAGNER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 11217 **UNIV OF CALIFORNIA - SAN DIEGO** **2612**
 USE OF ATMOSPHERIC CO₂, VEGETATIVE INDEX, AND DAILY CLIMATIC
 DATA IN A COORDINATED DIAGNOSTIC INVESTIGATION
 08/13/2001 - 08/31/2004 FY01: \$241,182 Total: \$241,182
Prin. Invest.: C KEELING
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 8 1516 **UNIV OF CALIFORNIA - SAN DIEGO** **2613**
 VARIABILITY AND PREDICTABILITY OF LAND-ATMOSPHERE OBSERVA-
 TIONAL AND MODELING STUDIES
 05/12/1998 - 04/30/2002 FY01: \$0 Total: \$161,023
Prin. Invest.: J ROADS
Tech. Officer: MSFC/J ARNOLD
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 8 1571 **UNIV OF CALIFORNIA - SAN DIEGO** **2614**
 CARTILAGE TISSUE ENGINEERING: CIRCUMFERENTIAL SEEDING OF
 CHONDROCYTES USING ROTATING BIOREACTORS
 01/12/1999 - 11/30/2002 FY01: \$141,550 Total: \$402,550
Prin. Invest.: R L SAH
Tech. Officer: JSC/D R MORRISON
CASE Category: 56 - MEDICAL

NAG 8 1589 **UNIV OF CALIFORNIA - SAN DIEGO** **2615**
 NOVEL STRATEGY FOR TRI-DIMENSIONAL IN VITRO BONE INDUCTION
 02/25/1999 - 11/30/2002 FY01: \$120,650 Total: \$333,650
Prin. Invest.: J A FRANGOS
Tech. Officer: MSFC/B GUYNES
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 9 1002 **UNIV OF CALIFORNIA - SAN DIEGO** **2616**
 DETERMINATION OF OXYGEN BLANK & SUITABILITY OF CVD DIAMOND
 04/30/1998 - 05/31/2002 FY01: \$54,000 Total: \$394,000
Prin. Invest.: M H THIEMENS
Tech. Officer: JSC/E K STANSBERY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAS 1 98141 **UNIV OF CALIFORNIA - SAN DIEGO** **2617**
 A STUDY OF CLOUD RADIATIVE FORCING AND FEEDBACK (CERES)
 10/30/1998 - 10/29/2002 FY01: \$246,563 Total: \$701,579
Prin. Invest.: V RAMANATHAN
Tech. Officer: LARC/B A WIELICKI, LARC/R L HUFFMAN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAS 5 00194 **UNIV OF CALIFORNIA - SAN DIEGO** **2618**
 SIMBIOS II - SATELLITE OCEAN COLOR VALIDATION USING
 01/23/2001 - 11/30/2001 FY01: \$200,742 Total: \$200,742
Prin. Invest.: R FROUIN
Tech. Officer: GSFC/C R MCCAIN
CASE Category: 33 - OCEANOGRAPHY

NAS 5 01002 **UNIV OF CALIFORNIA - SAN DIEGO** **2619**
 SIMBIOS II-BIO OPTICAL MEASUREMENT AND MODELING OF THE NORTH
 PACIFIC & SOUTHERN OCEANS
 01/23/2001 - 11/30/2001 FY01: \$276,619 Total: \$276,619
Prin. Invest.: B G MITCHELL
Tech. Officer: GSFC/C R MCCLAIN
CASE Category: 33 - OCEANOGRAPHY

NAS 5 30720 **UNIV OF CALIFORNIA - SAN DIEGO** **2620**
 HIGH ENERGY X-RAY TIMING EXPERIMENT FOR XTE PROJECT
 11/01/1989 - 09/30/2002 FY01: \$460,000 Total: \$30,488,322
Prin. Invest.: R E ROTHSCCHILD
Tech. Officer: GSFC/W D DAVIS
CASE Category: 11 - ASTRONOMY

NAS 5 97121 **UNIV OF CALIFORNIA - SAN DIEGO** **2621**
 PULSE SHAPE DISCRIMINATOR FOR INTEGRAL SPECTROMETER (LETTER CONTRACT)
 01/24/1997 - 09/30/2001 FY01: \$556,956 Total: \$5,706,068
Prin. Invest.: J L MATTESON, R P LIN
Tech. Officer: GSFC/J P MURPHY
CASE Category: 11 - ASTRONOMY

NAS 5 97130 **UNIV OF CALIFORNIA - SAN DIEGO** **2622**
 BIO-OPTIONAL MEASUREMENT-MODELING OF CA CURRENT & POLAR OCEAN
 08/18/1997 - 11/30/2000 FY01: \$0 Total: \$858,048
Prin. Invest.: B G MITCHELL
Tech. Officer: GSFC/C R MCCLAIN
CASE Category: 33 - OCEANOGRAPHY

NAS 5 97135 **UNIV OF CALIFORNIA - SAN DIEGO** **2623**
 SATELLITE OCEAN COLOR VALIDATION USING MERCHANT SHIP
 09/22/1997 - 11/30/2000 FY01: \$0 Total: \$486,989
Prin. Invest.: R FROUIN
Tech. Officer: GSFC/J L MUELLER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAS 5 97139 **UNIV OF CALIFORNIA - SAN DIEGO** **2624**
 RESEARCH--ATMOSPHERIC CORRECTION ALGORITHMS FOR OCEAN COLOR REMOTE SENSING
 09/23/1997 - 05/22/2000 FY01: \$0 Total: \$220,000
Prin. Invest.: K STAMNES
Tech. Officer: GSFC/J MUELLER
CASE Category: 33 - OCEANOGRAPHY

NAS 5 99006 **UNIV OF CALIFORNIA - SAN DIEGO** **2625**
 GLAS SCIENCE TEAM LEADER.
 11/25/1998 - 12/01/2002 FY01: \$370,000 Total: \$900,000
Prin. Invest.: J B MINSTER
Tech. Officer: GSFC/G SMITH
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAS 5 99120 **UNIV OF CALIFORNIA - SAN DIEGO** **2626**
 TRIANA SCIENCE INVESTIGATION
 12/09/1998 - 09/30/2003 FY01: \$2,646,852 Total: \$25,585,524
Prin. Invest.: F VALCRO
Tech. Officer: GSFC/J WATZIM, GSFC/C TOOLEY
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAS 9 98124 **UNIV OF CALIFORNIA - SAN DIEGO** **2627**
 EFFECT OF EVA & LONG-TERM EXPOSURE TO MICROGRAVITY ON PULMONARY FUNCTION
 03/02/1999 - 06/30/2003 FY01: \$379,083 Total: \$1,344,412
Prin. Invest.: J B WEST
Tech. Officer: JSC/S M MCCULLUM
CASE Category: 59 - LIFE SCIENCE, OTHER

NCC 2 978 **UNIV OF CALIFORNIA - SAN DIEGO** **2628**
 NONINVASIVE MEASUREMENT OF INTERCRANIAL PRESSURE USING ULTRASOUND
 02/04/1997 - 12/31/1999 FY01: \$0 Total: \$609,667
Prin. Invest.: R A PEDOWITZ
Tech. Officer: ARC/C M WINGET, ARC/G C JAHNS
CASE Category: 56 - MEDICL

NCC 2 1133 **UNIV OF CALIFORNIA - SAN DIEGO** **2629**
 LOWER BODY NEGATIVE PRESSURE AS A COUNTERMEASURE FOR SPACEFLIGHT DECONDITIONING
 08/02/1999 - 04/30/2002 FY01: \$88,000 Total: \$632,363
Prin. Invest.: A R HARGENS
Tech. Officer: ARC/E M HOLTON
CASE Category: 56 - MEDICL

NCC 2 1196 **UNIV OF CALIFORNIA - SAN DIEGO** **2630**
 NON-INVASIVE INTRACRANIAL PRESSURE MEASUREMENT FOR SPACE FLIGHT - SPACE PHYSIOLOGY & COUNTERMEASURE
 09/29/2000 - 04/30/2002 FY01: \$40,000 Total: \$117,000
Prin. Invest.: C ROGERS
Tech. Officer: ARC/E M HOLTON, ARC/B P DALTON
CASE Category: 56 - MEDICL

NCC 2 5302 **UNIV OF CALIFORNIA - SAN DIEGO** **2631**
 TECHNOLOGY FOR MOLECULAR-LEVEL COMPUTER MODELING OF PROTOCELLULAR
 12/22/1998 - 10/14/2000 FY01: \$0 Total: \$153,259
Prin. Invest.: V GALINSKY
Tech. Officer: ARC/A POHORILLE, ARC/M H NEW
CASE Category: 29 - MATH/COMPUTER SCI, OTHER

NCC 2 5448 **UNIV OF CALIFORNIA - SAN DIEGO** **2632**
 ADVANCE ALGORITHMS FOR MOLECULAR-LEVEL COMPUTER MODELING OF PROTOCELLULAR SYSTEMS
 08/03/2001 - 01/31/2002 FY01: \$47,656 Total: \$47,656
Prin. Invest.: V GALLINSKY
Tech. Officer: ARC/M H NEW
CASE Category: 29 - MATH/COMPUTER SCI, OTHER

NCC 3 506 **UNIV OF CALIFORNIA - SAN DIEGO** **2633**
 STRETCHED DIFFUSION FLAMES IN VON KARMAN SWIRLING FLOWS
 09/25/1996 - 01/01/2001 FY01: \$0 Total: \$170,709
Prin. Invest.: F A WILLIAMS
Tech. Officer: GRC/K R SACKSTEDER, GRC/H D ROSS
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NCC 3 569 **UNIV OF CALIFORNIA - SAN DIEGO** **2634**
 NEW APPROACHES FOR INTEGRALLY DAMPED COMPOSITE FAN BLADES
 07/25/1997 - 10/17/2000 FY01: -\$25 Total: \$98,411
Prin. Invest.: J KOSMATKA
Tech. Officer: GRC/O MEHMED
CASE Category: 46 - MECHANICAL ENGR

NCC 3 693 **UNIV OF CALIFORNIA - SAN DIEGO** **2635**
 HIGH-PRESSURE COMBUSTION OF BINARY FUEL SPRAYS HIGH-PRESSURE COMBUSTION OF BINARY FUEL SPRAYS
 03/25/1999 - 01/03/2003 FY01: \$44,446 Total: \$124,022
Prin. Invest.: F A WILLIAMS
Tech. Officer: GRC/D L DIETRICH
CASE Category: 49 - ENGINEERING, OTHER

NCC 3 695 **UNIV OF CALIFORNIA - SAN DIEGO** **2636**
 DYNAMICS OF DROPLETS EXTINCTION IN SLOW CONVECTIVE FLOWS
 03/25/1999 - 01/13/2003 FY01: \$7,847 Total: \$23,203
Prin. Invest.: F A WILLIAMS
Tech. Officer: GRC/D L URBAN
CASE Category: 49 - ENGINEERING, OTHER

NCC 3 769 UNIV OF CALIFORNIA - SAN DIEGO 2637
 SCIENTIFIC SUPPORT FOR A PROPOSED SPACE SHUTTLE DR OPLET
 BURNING EXPERIMENT
 02/08/2000 - 12/13/2002 FY01: \$123,437 Total: \$242,437
Prin. Invest.: F A WILLIAMS
Tech. Officer: GRC/D L URBAN
CASE Category: 49 - ENGINEERING, OTHER

NCC 3 819 UNIV OF CALIFORNIA - SAN DIEGO 2638
 INTEGRAL DAMPING OF A TRAILING EDGE BLOWING FAN BL ADE
 07/31/2000 - 02/28/2001 FY01: \$0 Total: \$40,000
Prin. Invest.: D KOSMATKA
Tech. Officer: GRC/O MEHMED
CASE Category: 49 - ENGINEERING, OTHER

NCC 3 902 UNIV OF CALIFORNIA - SAN DIEGO 2639
 STRUCTURAL ANALYSIS OF AN INTEGRAL DAMPED FAN STRUCTURAL
 ANALYSIS OF AN INTEGRAL DAMPED FAN
 07/13/2001 - 04/30/2002 FY01: \$79,194 Total: \$79,194
Prin. Invest.: D KOSMATKA
Tech. Officer: GRC/O MEHMED
CASE Category: 46 - MECHANICAL ENGR

NCC 5 230 UNIV OF CALIFORNIA - SAN DIEGO 2640
 CORRELATED NOISE IN GPS TIME SERIES AND ITS EFFECT MODELS
 08/22/1997 - 08/31/2001 FY01: \$0 Total: \$92,292
Prin. Invest.: D C AGNEW
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NCC 5 257 UNIV OF CALIFORNIA - SAN DIEGO 2641
 EARTHKAM (EARTH KNOWLEDGE ACQUIRED BY MIDDLE SCHOOLS)
 11/25/1997 - 10/31/2001 FY01: \$0 Total: \$2,274,999
Prin. Invest.: D K RIDE
Tech. Officer: HQ/P MOUNTJOY
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 540 UNIV OF CALIFORNIA - SAN DIEGO 2642
 EARTHKAM BRIDGE FUNDING REQUEST
 02/20/2001 - 01/31/2002 FY01: \$500,000 Total: \$500,000
Prin. Invest.: S RIDE
Tech. Officer: GSFC/P L MOUNTJOY
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 585 UNIV OF CALIFORNIA - SAN DIEGO 2643
 INTERNATIONAL SPACE STATION MIDDLE SCHOOL EDUC./ISS EARTHKAM
 08/31/2001 - 08/31/2005 FY01: \$320,196 Total: \$320,196
Prin. Invest.: S RIDE
Tech. Officer: GSFC/P MOUNTJOY
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 9 105 UNIV OF CALIFORNIA - SAN DIEGO 2644
 CHARACTERIZATION OF AUTONOMIC FUNCTION
 02/21/2000 - 02/20/2003 FY01: \$21,608 Total: \$42,668
Prin. Invest.: P J MILLS
Tech. Officer: JSC/J MECK
CASE Category: 59 - LIFE SCIENCE, OTHER

NCC 9 106 UNIV OF CALIFORNIA - SAN DIEGO 2645
 CHARACTERIZATION OF AUTONOMIC FUNCTION
 02/16/2000 - 03/31/2003 FY01: \$123,068 Total: \$243,188
Prin. Invest.: M G ZEIGLER
Tech. Officer: JSC/J MECK
CASE Category: 59 - LIFE SCIENCE, OTHER

NGT 2 52251 UNIV OF CALIFORNIA - SAN DIEGO 2646
 ACHIEVING APPLICATION PERFORMANCE ON THE INFORMATION POWER
 GRID
 09/18/1998 - 03/31/2001 FY01: \$12,000 Total: \$66,000
Prin. Invest.: F BERMAN
Tech. Officer: ARC/C H SCHULBACK
CASE Category: 22 - COMPUTER SCIENCE

NGT 3 52333 UNIV OF CALIFORNIA - SAN DIEGO 2647
 GRADUATE STUDENT RESEARCHES PROGRAM
 06/11/1997 - 12/31/2000 FY01: -\$1,839 Total: \$64,161
Prin. Invest.: J KOSMATKA
Tech. Officer: GRC/F J MONTEGANI
CASE Category: 49 - ENGINEERING, OTHER

NGT 4 52429 UNIV OF CALIFORNIA - SAN DIEGO 2648
 CONTROL ORIENTED MODELING AND VALIDATION OF AEROSPEL
 ELASTIC SYSTEMS
 07/20/2001 - 06/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: R D CALLAFON
Tech. Officer: DFRC/K K GUPTA
CASE Category: 41 - AERONAUTICAL ENGR

NGT 5 106 UNIV OF CALIFORNIA - SAN DIEGO 2649
 THE INFLUENCES OF LIGHT ON PHYTOPLANKTON FLUORESCENCE AND
 PRODUCTIVITY (STUDENT: JESSICA NOLAN)
 05/30/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: B G MITCHELL, NONE
Tech. Officer: GSFC/G A SOFFEN
CASE Category: 33 - OCEANOGRAPHY

NGT 5 30122 UNIV OF CALIFORNIA - SAN DIEGO 2650
 LONG-TERM VARIABILITY IN PHYTOPLANKTON GROWTH RATE S &
 PRIMARY PRODUCTIVITY ESSF RECIPIENT: AMY SHAN
 10/01/1997 - 08/31/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: R GOERICKE
Tech. Officer: GSFC/G ASRAR
CASE Category: 59 - LIFE SCIENCE, OTHER

NGT 5 30368 UNIV OF CALIFORNIA - SAN DIEGO 2651
 NEAR-FIELD FAULT DEFORMATION IN SOUTHERN CALIFORNIA AND BAJA,
 MEXICO FROM THE GLOBAL POSITIONING
 08/13/2001 - 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: D SANDWELL
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40007 UNIV OF CALIFORNIA - SAN DIEGO 2652
 SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATIONAL COLLEGE
 AND FELLOWSHIP PROGRAM.
 01/24/1997 - 01/31/2001 FY01: \$0 Total: \$1,836,750
Prin. Invest.: J A ARNOLD
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40085 UNIV OF CALIFORNIA - SAN DIEGO 2653
 CALIFORNIA SPACE GRANT COLLEGE & FELLOWSHIP PROGRAM
 02/12/2001 - 01/31/2002 FY01: \$460,750 Total: \$460,750
Prin. Invest.: J ARNOLD
Tech. Officer: GSFC/D D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50131 UNIV OF CALIFORNIA - SAN DIEGO 2654
 IMPROVING SCIENTIFIC APPLICATION PERFORMANCE BY DY
 09/10/1997 - 06/30/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: F BERMAN
Tech. Officer: HQ/A NURRIDIN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50183 UNIV OF CALIFORNIA - SAN DIEGO 2655
 THREE ASTROPHYSICAL GRAILS: THE ORIGINS OF DARK MATTER,
 GAMMA-RAY BURSTS, AND HEAVY ELEMENTS
 05/27/1998 - 06/30/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: G M FULLER
Tech. Officer: HQ/A NURRIDIN
CASE Category: 13 - PHYSICS

NGT 5 50234 UNIV OF CALIFORNIA - SAN DIEGO 2656
 PARADIGM SHIFTS IN THE GAMMA-RAY BURST MYSTERY AND
 COSMOLOGY: WORKING TOWARDS FIRM GROUND
 05/27/1999 - 06/30/2001 FY01: \$0 Total: \$44,000
Prin. Invest.: G FULLER
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 9 1261 UNIV OF CALIFORNIA - SAN FRANCISCO 2657
 TELOMERE REPAIR & CHROMOSOME INSTABILITY AFTER HIGH LINEAR
 ENERGY TRANSFER PARTICLE RADIATION
 09/25/2000 - 07/31/2002 FY01: \$242,854 Total: \$291,425
Prin. Invest.: J P MURNANE, B FOULADI
Tech. Officer: JSC/C W LLOYD
CASE Category: 56 - MEDICL

NAS 9 99055 UNIV OF CALIFORNIA - SAN FRANCISCO 2658
 LIFE SCIENCE FLIGHT EXPERIMENT
 01/29/1999 - 12/31/2002 FY01: \$125,000 Total: \$355,000
Prin. Invest.: T LANG
Tech. Officer: JSC/D BAUMANN
CASE Category: 56 - MEDICL

NCC 2 993 UNIV OF CALIFORNIA - SAN FRANCISCO 2659
 EVOLUTIONARY CELL COMPUTING
 05/16/1997 - 06/30/2000 FY01: \$0 Total: \$158,786
Prin. Invest.: M A WILSON
Tech. Officer: ARC/M H NEW, ARC/S CHANG
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NCC 2 1126 UNIV OF CALIFORNIA - SAN FRANCISCO 2660
 MEMBRANE-BASED FUNCTIONS IN THE ORIGINS OF CELLULAR LIFE
 06/14/1999 - 12/31/2001 FY01: \$100,622 Total: \$197,114
Prin. Invest.: M A WILSON
Tech. Officer: ARC/M H NEW, ARC/M L FONDA
CASE Category: 12 - CHEMISTRY

NCC 2 1194 UNIV OF CALIFORNIA - SAN FRANCISCO 2661
 DO INTEGRINS MEDIATE THE SKELETAL RESPONSES TO ALTERED
 LOADING IN VIVI? (SBUPROJECT A)
 08/28/2000 - 09/30/2002 FY01: \$100,034 Total: \$199,422
Prin. Invest.: C H DAMSKY
Tech. Officer: ARC/R K GLOBUS, ARC/E M HOLTON
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NCC 2 5294 UNIV OF CALIFORNIA - SAN FRANCISCO 2662
 MOLECULAR MODELING IN BIO-NANOTECHNOLOGY: COMPUTER AIDED
 GENETIC ENGINEERING OF A PROTEIN-BASED ...
 09/21/1998 - 09/30/2000 FY01: \$0 Total: \$147,817
Prin. Invest.: M A WILSON, NONE
Tech. Officer: ARC/R L JAFFE
CASE Category: 12 - CHEMISTRY

NCC 2 5295 UNIV OF CALIFORNIA - SAN FRANCISCO 2663
 TOWARDS A PHYLOGENY OF BIOLOGICAL FUNCTIONS
 09/25/1998 - 03/31/2001 FY01: \$0 Total: \$175,533
Prin. Invest.: M A WILSON
Tech. Officer: ARC/M H NEW, ARC/M L FONDA
CASE Category: 59 - LIFE SCIENCE, OTHER

NCC 2 5389 UNIV OF CALIFORNIA - SAN FRANCISCO 2664
 RESEARCH IN COMPUTATIONAL ASTROBIOLOGY
 07/07/2000 - 06/30/2001 FY01: \$0 Total: \$42,856
Prin. Invest.: M A WILSON
Tech. Officer: ARC/M H NEW, ARC/A POHORILLE
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NCC 2 5412 UNIV OF CALIFORNIA - SAN FRANCISCO 2665
 COMPUTER MODELING OF NUCLEIC ACID INTERACTIONS FOR IN VIVO
 DNA SEQUENCE DETECTION
 11/30/2000 - 11/30/2001 FY01: \$61,496 Total: \$61,496
Prin. Invest.: M A WILSON, A HERMONE
Tech. Officer: ARC/R L JAFFE, ARC/H PARTRIDGE
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NCC 2 5453 UNIV OF CALIFORNIA - SAN FRANCISCO 2666
 RESEARCH IN COMPUTATIONAL ASTROBIOLOGY
 08/08/2001 - 07/31/2002 FY01: \$56,780 Total: \$56,780
Prin. Invest.: M A WILSON
Tech. Officer: ARC/M NEW, ARC/A POHORILLO
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 1 01003 UNIV OF CALIFORNIA - SANTA BARBARA 2667
 BIOMIMETIC, SELF-HEALING NANOCOMPOSITES FOR AEROSPACE
 APPLICATIONS: 1.UCSB COMPONENTS
 12/29/2000 - 09/30/2003 FY01: \$145,833 Total: \$145,833
Prin. Invest.: D E MORSE
Tech. Officer: LARC/E J SIOCHI
CASE Category: 12 - CHEMISTRY

NAG 2 1140 UNIV OF CALIFORNIA - SANTA BARBARA 2668
 MODELING & PREDICTION OF WILDFIRE HAZARD IN SOUTHERN
 CALIFORNIA, INTEGRATION OF MODELS WITH.....
 07/21/1997 - 06/30/2001 FY01: \$0 Total: \$245,000
Prin. Invest.: D A ROBERTS, S L USTIN, R CHURCH
Tech. Officer: ARC/G A SHELTON, ARC/J A BRASS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 3 1847 UNIV OF CALIFORNIA – SANTA BARBARA 2669
 THE SUPERFLUID TRANSITION OF HE4 UNDER UNSUAL CON DITION
 05/02/1996 – 07/31/2001 FY01: \$30,000 Total: \$821,000
Prin. Invest.: P AHLERS
Tech. Officer: GRC/B S SINGH
CASE Category: 13 – PHYSICS

NAG 3 1857 UNIV OF CALIFORNIA – SANTA BARBARA 2670
 NUMERICAL SIMULATION OF ELECTROCHEMICAL TRANSPORT PROCESS
 IN MICORGRAVITYENVIRONMENTS
 05/06/1996 – 11/06/2000 FY01: -\$86 Total: \$319,914
Prin. Invest.: S BAMERJEE*Prin. Invest.:* NONE
Tech. Officer: GRC/J C DUH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 3 2115 UNIV OF CALIFORNIA – SANTA BARBARA 2671
 INTERACTION FORCES AND THE FLOW-INDUCED COALESCENC E OF
 DROPS AND BUBBLES
 02/19/1998 – 12/31/2002 FY01: \$166,250 Total: \$616,250
Prin. Invest.: L G LEAL
Tech. Officer: GRC/B S SINGH
CASE Category: 43 – CHEMICAL ENGR

NAG 3 2119 UNIV OF CALIFORNIA – SANTA BARBARA 2672
 POOL BOILING CIRSIS FROM FLAT PLATES: MECHANISM(S) AND
 ENHANCEMENT
 02/26/1998 – 12/31/2001 FY01: \$133,850 Total: \$481,850
Prin. Invest.: T G THEOFANOUS, Y BUYEVIAH
Tech. Officer: GRC/J B MCQUILLEN
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 2414 UNIV OF CALIFORNIA – SANTA BARBARA 2673
 DIRECT NUMERICAL SIMULATION OF TURBULENT FLOWS WIT H PHASE
 CHANGE IN MICROGRAVITY
 06/02/2000 – 11/30/2003 FY01: \$47,500 Total: \$87,500
Prin. Invest.: P BANERJEE
Tech. Officer: LARC/J H AGUI
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 2439 UNIV OF CALIFORNIA – SANTA BARBARA 2674
 GRADIENT DRIVEN FLUCTUATIONS GRADIENT DRIVEN FLUCTUATIONS
 04/20/2000 – 11/30/2003 FY01: \$133,000 Total: \$183,000
Prin. Invest.: D S CANNELL
Tech. Officer: GRC/F P CHIARAMONTE
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 2466 UNIV OF CALIFORNIA – SANTA BARBARA 2675
 THE DYNAMICS OF PARTICULATE DEPOSITIONED RESUSPENS ION
 PROCESSES AT MODERATE TO HIGH REYNOLDS NUMBER
 06/20/2000 – 11/30/2003 FY01: \$31,739 Total: \$48,845
Prin. Invest.: E MEIBURG
Tech. Officer: GRC/F P CHARIAMONTE
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 2493 UNIV OF CALIFORNIA – SANTA BARBARA 2676
 THE DYNAMICS OF MISCIBLE INTERFACES: SIMULATIONS THEY
 DYNAMICS OF MISCIBLE INTERFACES: SIMULATIONS
 10/11/2000 – 12/31/2001 FY01: \$107,500 Total: \$107,500
Prin. Invest.: E H MEIBURG
Tech. Officer: GRC/F P CHIARAMONTE
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 2513 UNIV OF CALIFORNIA – SANTA BARBARA 2677
 PROBLEMS IN MICROGRAVITY FLUID MECHANICS: G–JITTE R CONVEC-
 TION
 12/19/2000 – 11/30/2003 FY01: \$150,250 Total: \$150,250
Prin. Invest.: G M HOMSY
Tech. Officer: GRC/F P CHIARAMONTE III
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 3620 UNIV OF CALIFORNIA – SANTA BARBARA 2678
 "REMOTE SENSING INFORMATION SCIENCES RESEARCH GROU
 02/07/1997 – 06/30/2001 FY01: \$0 Total: \$2,384,434
Prin. Invest.: D C CLARKE
Tech. Officer: GSFC/A J TUYAHOV
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3646 UNIV OF CALIFORNIA – SANTA BARBARA 2679
 SOLAR SYSTEM PHYSICS
 02/25/1997 – 04/30/2002 FY01: \$85,000 Total: \$335,750
Prin. Invest.: S J PEALE
Tech. Officer: GSFC/J G GRANT
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4629 UNIV OF CALIFORNIA – SANTA BARBARA 2680
 PARAMETERIZATION OF CLOUD 3-D EFFECTS ON SURFACE S GET ESTI-
 MATED FROM SATELLITE MEASUREMENTS
 05/21/1997 – 11/30/2001 FY01: \$0 Total: \$380,000
Prin. Invest.: C GAUTHIER
Tech. Officer: GSFC/R CAHALAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4814 UNIV OF CALIFORNIA – SANTA BARBARA 2681
 HYDROLOGY, HYDROCHEMICAL MODELING AND REMOTE SENSI SNOW-
 COVERED ALPINE DRAINAGE BASINS
 06/19/1997 – 12/31/2001 FY01: \$0 Total: \$2,394,535
Prin. Invest.: J C DOZIER
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4963 UNIV OF CALIFORNIA – SANTA BARBARA 2682
 PROGRAM IS PART OF A LONG TERM EFFORT ICCESS IS DEV RGRADUATE
 STUDENTS, EARLY ON IN THEIR ACADEMIC LI
 06/27/1997 – 12/31/2000 FY01: \$0 Total: \$225,000
Prin. Invest.: C GAUTIER
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6120 UNIV OF CALIFORNIA – SANTA BARBARA 2683
 THE EOS AMAZON PROJECT
 08/13/1997 – 06/30/2002 FY01: \$0 Total: \$623,394
Prin. Invest.: T DUNNE
Tech. Officer: GSFC/T JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6288 UNIV OF CALIFORNIA – SANTA BARBARA 2684
 DEVELOPMENT AND APPLICATION OF THE NEXT GENERATION FOR THE
 UNDERSTANDING OF MARINE PROCESSES ON REGI
 09/10/1997 – 08/31/2001 FY01: \$0 Total: \$579,515
Prin. Invest.: D SIEGEL
Tech. Officer: GSFC/J YODER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6434 UNIV OF CALIFORNIA – SANTA BARBARA 2685
 BIO–OPTICS IN THE WESTERN ANTARCTIC PENINSULA REGI ON
 10/16/1997 – 06/30/2002 FY01: \$0 Total: \$492,438
Prin. Invest.: R C SMITH
Tech. Officer: GSFC/J A MARRA
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6465 UNIV OF CALIFORNIA – SANTA BARBARA 2686
 INVESTIGATION OF SNOW PROPERTIES USING MODIS AND A STER DATA
 10/24/1997 – 09/30/2001 FY01: \$0 Total: \$310,053
Prin. Invest.: J SHI
Tech. Officer: GSFC/D STARR
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 6478 UNIV OF CALIFORNIA – SANTA BARBARA 2687
 INFRASTRUCTURE FOR TRAINING AND PARTNERSHIPS–CALIF ORNIA
 WATER ANDCOASTAL OCEAN RESOURCES
 11/18/1997 – 09/30/1999 FY01: –\$1 Total: \$395,479
Prin. Invest.: D SIEGEL
Tech. Officer: GSFC/M WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6911 UNIV OF CALIFORNIA – SANTA BARBARA 2688
 A REQUEST FOR SCIENCE READINESS FUNDS FOR THE OPTI CAL
 MONITOR PROGRAM OFHTE X–RAY MULTI–MIRROR MISS
 01/28/1998 – 10/31/2001 FY01: \$0 Total: \$201,479
Prin. Invest.: D CORDOVA
Tech. Officer: GSFC/R DONNELLY
CASE Category: 11 – ASTRONOMY

NAG 5 7075 UNIV OF CALIFORNIA – SANTA BARBARA 2689
 DETAILED THEORETICAL MODELING OF THE SPECTRUM AND POLARIZA
 TION OFACCRETION DISKS IN ACTIVE GA
 02/25/1998 – 02/28/2002 FY01: \$0 Total: \$223,024
Prin. Invest.: O M BLAES
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 7177 UNIV OF CALIFORNIA – SANTA BARBARA 2690
 PROBABILITY OF DETECTING PLANETS WITH MICROLENSING
 03/16/1998 – 03/14/2002 FY01: \$33,000 Total: \$121,100
Prin. Invest.: S J PEALE
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 7248 UNIV OF CALIFORNIA – SANTA BARBARA 2691
 SIMPLE AND MULTIPLE ENDMEMBER SPECTRAL MIXTURE ANA LYSIS IN
 THE BOREAL FOREST
 04/24/1998 – 06/30/2000 FY01: \$0 Total: \$40,000
Prin. Invest.: D A ROBERTS
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 7714 UNIV OF CALIFORNIA – SANTA BARBARA 2692
 POSTLAUNCH: STATEMENT OF WORK U.S. OPTICAL MONITOR TEAM
 10/05/1998 – 03/31/2002 FY01: \$433,796 Total: \$994,063
Prin. Invest.: D A CORDOVA
Tech. Officer: GSFC/N E WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 7940 UNIV OF CALIFORNIA – SANTA BARBARA 2693
 OUTREACH PROJECT
 01/19/1999 – 03/31/2002 FY01: \$128,619 Total: \$253,850
Prin. Invest.: D FOSTER
Tech. Officer: GSFC/N E WHITE
CASE Category: 11 – ASTRONOMY

NAG 5 7981 UNIV OF CALIFORNIA – SANTA BARBARA 2694
 ATMOSPHERIC EXCITATION OF PLANETARY NORMAL MODES
 01/13/1999 – 12/31/2001 FY01: \$0 Total: \$68,250
Prin. Invest.: D TANIMOTO
Tech. Officer: GSFC/J A GRANT
CASE Category: 11 – ASTRONOMY

NAG 5 8319 UNIV OF CALIFORNIA – SANTA BARBARA 2695
 PLUMES AND BLOOMS: MODELING THE CASE II WATERS OF THE SANTA
 BARBARA CHANNEL
 04/01/1999 – 03/31/2001 FY01: \$0 Total: \$180,000
Prin. Invest.: D A SIEGEL
Tech. Officer: GSFC/J W CAMPBELL
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 8396 UNIV OF CALIFORNIA – SANTA BARBARA 2696
 MESOSCALE EFFECTS OF CLIMATE AND LAND–COVER CHANGE ON
 RIVER–BASINHYDROLOGY IN AMAZONIA
 04/01/1999 – 03/31/2002 FY01: \$100,000 Total: \$300,000
Prin. Invest.: T DUNNE
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 8542 UNIV OF CALIFORNIA – SANTA BARBARA 2697
 GAZETTEER IMPLEMENTATION FOR INDIRECT SPATIAL REFERENCING
 05/20/1999 – 08/31/2000 FY01: \$0 Total: \$100,000
Prin. Invest.: L L HILL
Tech. Officer: GSFC/K MOE
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 8616 UNIV OF CALIFORNIA – SANTA BARBARA 2698
 EVALUATING USAGE OF SAR IN MEASURING SNOW PROPERTI ES
 06/14/1999 – 06/30/2002 FY01: \$129,107 Total: \$320,177
Prin. Invest.: J SHI
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 8658 UNIV OF CALIFORNIA – SANTA BARBARA 2699
 ROTATIONAL INSTABILITIES AND NUCLEOSYNTHESIS IN ACCRETING
 NEUTRON STARS.
 08/31/1999 – 06/30/2002 FY01: \$40,000 Total: \$117,680
Prin. Invest.: L BILDSTEN
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 8669 UNIV OF CALIFORNIA – SANTA BARBARA 2700
 NANOSCALE BOLOMETERS AND EVAPORATIVE ELECTRONIC REFRIGERA
 TION
 07/09/1999 – 07/14/2002 FY01: \$0 Total: \$432,592
Prin. Invest.: A CLELAND
Tech. Officer: GSFC/G MUCKLOW
CASE Category: 13 – PHYSICS

NAG 5 8680 UNIV OF CALIFORNIA - SANTA BARBARA 2701
 ATMOSPHERIC MINERAL DUST AND CHLOROPHYLL BLOOMS
 07/19/1999 - 07/14/2002 FY01: \$118,691 Total: \$350,379
Prin. Invest.: N M MAHOWALD
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9055 UNIV OF CALIFORNIA - SANTA BARBARA 2702
 APPLICATIONS AND VALIDATION OF THE SRTM DEM IN THE AMAZON:
 HYDROLOGICAL AND GEOMORPHOLOGICAL ANALYSI
 02/14/2000 - 05/31/2001 FY01: \$25,000 Total: \$100,000
Prin. Invest.: D E ALSDORF
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 9073 UNIV OF CALIFORNIA - SANTA BARBARA 2703
 BALLOON BORNE MILLIMETER WAVELENGTH SKY STUDIES &
 TECHNOLOGY DEVELOPMENT
 02/15/2000 - 02/14/2002 FY01: \$379,972 Total: \$738,482
Prin. Invest.: P LUBIN
Tech. Officer: GSFC/G STRINGFELLOW
CASE Category: 11 - ASTRONOMY

NAG 5 9251 UNIV OF CALIFORNIA - SANTA BARBARA 2704
 BALLOON BORNE OBSERVATIONS OF THE POLARIZATION OF THE COSMIC
 MICROWAVE BACKGROUND
 03/31/2000 - 03/31/2002 FY01: \$166,220 Total: \$350,530
Prin. Invest.: J E RUHL
Tech. Officer: GSFC/G STRINGFELLOW
CASE Category: 11 - ASTRONOMY

NAG 5 9671 UNIV OF CALIFORNIA - SANTA BARBARA 2705
 THE ROLE OF NORTH AFRICAN MINERAL AEROSOLS IN CLIM ATE AND
 BIOGEOCHIMSTRY
 06/12/2000 - 05/31/2002 FY01: \$227,385 Total: \$423,333
Prin. Invest.: N M MAHOWALD
Tech. Officer: GSFC/P DECOLA
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9811 UNIV OF CALIFORNIA - SANTA BARBARA 2706
 GLOBALLY CONSISTENT TOPOGRAPHIC CHARACTERIZATION OF LARGE
 RIVER FLOODPLAINS BASED ON THE SRT
 07/21/2000 - 07/31/2002 FY01: \$95,001 Total: \$134,998
Prin. Invest.: L K MERTES
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICALSCIENCE

NAG 5 9818 UNIV OF CALIFORNIA - SANTA BARBARA 2707
 DEVELOPMENT AND APPLICATION OF THE NEXT GENERATION OF OCEAN
 COLOR MODELS FOR THE UNDERSTANDING OF MA
 07/26/2000 - 08/31/2002 FY01: \$150,000 Total: \$200,000
Prin. Invest.: D A SIEGEL
Tech. Officer: GSFC/J MARRA
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9844 UNIV OF CALIFORNIA - SANTA BARBARA 2708
 HYDROLOGY, HYDROCHEMICAL MODELING & REMOTE SENSING IN
 SEASONALLY SNOW-COVERED ALPINE DRAINAGE
 08/07/2000 - 07/31/2002 FY01: \$0 Total: \$750,000
Prin. Invest.: J C DOZIER
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9941 UNIV OF CALIFORNIA - SANTA BARBARA 2709
 DISTORTIONS OF THE CMB FROM VARIOUS PROCESSES OF THE EARLY
 UNIVERSE
 09/08/2000 - 09/30/2001 FY01: \$0 Total: \$40,791
Prin. Invest.: P M LUBIN
Tech. Officer: GSFC/A J KOGUT
CASE Category: 13 - PHYSICS

NAG 5 9971 UNIV OF CALIFORNIA - SANTA BARBARA 2710
 SPECTROSCOPY OF DIPS AND FLARES IN CIR X-1
 09/13/2000 - 09/14/2002 FY01: \$16,800 Total: \$43,800
Prin. Invest.: R E SHIREY
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10146 UNIV OF CALIFORNIA - SANTA BARBARA 2711
 REMOTE SENSING ASSESSMENT OF BIOGEOCHEMICAL PROCESSES IN
 THE SARGASSO SEA
 01/04/2001 - 11/30/2001 FY01: \$97,934 Total: \$97,934
Prin. Invest.: N NELSON
Tech. Officer: GSFC/J MARRA
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10299 UNIV OF CALIFORNIA - SANTA BARBARA 2712
 QUANTUM LTD.-TERAHERTZ DETECTION WITHOUT LIQUID CRYOGENS
 PROPOSAL #1138
 01/31/2001 - 12/31/2001 FY01: \$245,251 Total: \$245,251
Prin. Invest.: M SHERWIN
Tech. Officer: GSFC/T DOIRON
CASE Category: 45 - ELECTRICAL ENGR

NAG 5 10457 UNIV OF CALIFORNIA - SANTA BARBARA 2713
 REMOTE SENSING INFORMATON SCIENCE RESEARCH
 02/26/2001 - 02/28/2002 FY01: \$390,000 Total: \$390,000
Prin. Invest.: J E ESTES
Tech. Officer: GSFC/A TUYAHOV
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10520 UNIV OF CALIFORNIA - SANTA BARBARA 2714
 TECTONIC-CLIMATE INTERACTIONS IN ACTIVE OROGENIC BELTS: QUAN-
 TIFICATION OF DYNAMIC TOPOGRAPHY WITH
 03/30/2001 - 02/14/2002 FY01: \$146,532 Total: \$146,532
Prin. Invest.: D W BURBANK
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 10671 UNIV OF CALIFORNIA - SANTA BARBARA 2715
 ESTIMATING SOIL MOISTURE CHANGES USING RADARSAT & ITS APPLICA-
 TION IN HYDROLOGICAL MODELING
 03/27/2001 - 03/14/2002 FY01: \$71,282 Total: \$71,282
Prin. Invest.: J SHI
Tech. Officer: GSFC/W ABDALATI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 11249 UNIV OF CALIFORNIA – SANTA BARBARA 2716
 MULTI-MEDIA FLUID MECHANICS: FLUIDS IN MICROGRAVITY
 08/16/2001 – 08/31/2002 FY01: \$150,000 Total: \$150,000
Prin. Invest.: G HOMSY
Tech. Officer: GSFC/D SPEARS
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 8 1429 UNIV OF CALIFORNIA – SANTA BARBARA 2717
 R/S BOUNDARY EFFECTS ON TRANSPORT PROPERTIES AND DYNAMIC
 FINITE-SIZE SCALING NEAR THE SUPERFLUID
 02/23/1998 – 01/31/2003 FY01: \$161,500 Total: \$628,121
Prin. Invest.: G AHLERS, V DOHM, F C LIU
Tech. Officer: MSFC/J POE, JPL/D STRAYER
CASE Category: 13 – PHYSICS

NAG 8 1757 UNIV OF CALIFORNIA – SANTA BARBARA 2718
 RESEARCH ENTITLED, THE SUPERFLUID TRANSITION OF HE UNDER
 UNUSUAL CONDITIONS
 04/26/2001 – 04/29/2005 FY01: \$100,000 Total: \$100,000
Prin. Invest.: G AHLERS
Tech. Officer: GSFC/D HUBBARD
CASE Category: 13 – PHYSICS

NAG 9 1329 UNIV OF CALIFORNIA – SANTA BARBARA 2719
 QUANTITATIVE MODELING OF HUMAN SACADIC TARGETING DURING VISUAL
 RESEARCH
 06/29/2001 – 12/23/2002 FY01: \$167,146 Total: \$167,146
Prin. Invest.: M ECKSTIEN
Tech. Officer: JSC/C LLOYD
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG13 99025 UNIV OF CALIFORNIA – SANTA BARBARA 2720
 IMPLEMENTATION OF PREDICTIVE SOIL MODELING IN THE NATIONAL
 COOPERATIVE SOIL SURVEY
 08/27/1999 – 11/01/2001 FY01: \$121,343 Total: \$235,149
Prin. Invest.: O CHADWICK
Tech. Officer: JSC/R MCKELLIP
CASE Category: 32 – GEOLOGICAL SCIENCE

NAS 5 00196 UNIV OF CALIFORNIA – SANTA BARBARA 2721
 SIMBIOS II-OPTIMIZATION OF OCEAN COLOR ALGORITHMS: APPLICATION
 TO SATELLITE & IN SITU DATA MERGING.
 01/10/2001 – 11/30/2001 FY01: \$133,635 Total: \$133,635
Prin. Invest.: S MARITORENA
Tech. Officer: GSFC/C R MCCLAIN
CASE Category: 33 – OCEANOGRAPHY

NAS 5 00200 UNIV OF CALIFORNIA – SANTA BARBARA 2722
 SIMBIOS II – THE BERMUDA BIO-OPTICS PROJECT (BBPO) YEARS 9 THRU
 11.
 01/26/2001 – 11/30/2001 FY01: \$237,559 Total: \$237,559
Prin. Invest.: D A SIEGEL
Tech. Officer: GSFC/C R MCCLAIN
CASE Category: 33 – OCEANOGRAPHY

NAS 5 00201 UNIV OF CALIFORNIA – SANTA BARBARA 2723
 SIMBIOS II – PLUMES & BLOOMS: OBSERVATIONS, ANALYSIS & MODELING
 FOR SIMBIOS.
 01/26/2001 – 11/30/2001 FY01: \$208,287 Total: \$208,287
Prin. Invest.: D A SIEGEL
Tech. Officer: GSFC/C R MCCLAIN
CASE Category: 33 – OCEANOGRAPHY

NAS 5 31370 UNIV OF CALIFORNIA – SANTA BARBARA 2724
 EOS INVESTIGATION
 12/23/1991 – 12/14/2001 FY01: \$541,000 Total: \$4,303,402
Prin. Invest.: Z WAN
Tech. Officer: GSFC/H OSEROFF
CASE Category: 33 – OCEANOGRAPHY

NAS 5 31374 UNIV OF CALIFORNIA – SANTA BARBARA 2725
 EOS INVESTIGATION – ATMOSPHERIC INFRARED SOUNDER (AIRS) TEAM
 MEMBER INVESTIGATION
 03/04/1992 – 12/14/2001 FY01: \$185,000 Total: \$1,695,000
Prin. Invest.: C GAUTIER
Tech. Officer: GSFC/E KRIENS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAS 5 31710 UNIV OF CALIFORNIA – SANTA BARBARA 2726
 EOS INVESTIGATION/HIRIS TEAM MEMBER
 09/17/1992 – 12/14/2001 FY01: \$0 Total: \$137,461
Prin. Invest.: D DOZLER
Tech. Officer: GSFC/T BRAKKE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAS 5 31713 UNIV OF CALIFORNIA – SANTA BARBARA 2727
 EOS INVESTIGATION/HIRIS TEAM MEMBER
 02/25/1992 – 12/14/2001 FY01: \$0 Total: \$331,783
Prin. Invest.: J M MELACK
Tech. Officer: GSFC/T BRAKE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 97125 UNIV OF CALIFORNIA – SANTA BARBARA 2728
 BERMUDA BIOOPTICS PROGRAM FOR SIMBIOS
 07/11/1997 – 11/30/2000 FY01: \$0 Total: \$922,676
Prin. Invest.: D A SIEGEL
Tech. Officer: GSFC/C MCCLAIN
CASE Category: 33 – OCEANOGRAPHY

NAS 5 97127 UNIV OF CALIFORNIA – SANTA BARBARA 2729
 BERMUDA TESTBED MOORING IN SUPPORT OF SIMBIDS
 07/15/1997 – 10/31/2001 FY01: \$0 Total: \$519,274
Prin. Invest.: T D DICKEY
Tech. Officer: GSFC/C MCCLAIN
CASE Category: 33 – OCEANOGRAPHY

NAS 5 99083 UNIV OF CALIFORNIA – SANTA BARBARA 2730
 SPECTRAL DATA ASSIMILATION FOR MERGING SATELLITE OCEAN COLOR
 IMAGERY
 01/26/1999 – 10/31/1999 FY01: \$0 Total: \$299,610
Prin. Invest.: D SIEGEL
Tech. Officer: GSFC/C R MCCLAIN
CASE Category: 33 – OCEANOGRAPHY

NCC 2 1049 UNIV OF CALIFORNIA – SANTA BARBARA 2731
 CHARACTERIZATION OF LIGHTWEIGHT CERAMIC ABLATOR MATERIALS
 07/16/1998 – 12/14/2000 FY01: \$0 Total: \$147,088
Prin. Invest.: F MILSTEIN
Tech. Officer: ARC/H K TRAN
CASE Category: 49 – ENGINEERING, OTHER

NCC 2 5368 UNIV OF CALIFORNIA - SANTA BARBARA 2732
 INTRA-AND INTERSUBBAND ELECTRON-ELECTRON-PHONON SCATTERING IN QUANTUM CONFINED STRUCTURES FOR
 02/28/2000 - 02/28/2001 FY01: \$0 Total: \$59,304
Prin. Invest.: M W WU
Tech. Officer: ARC/T R GOVINDAN
CASE Category: 45 - ELECTRICAL ENGR

NCC 5 281 UNIV OF CALIFORNIA - SANTA BARBARA 2733
 MULTI-SCALE ANALYSIS OF INUNDATION WITH MICROWAVE AND OPTICAL REMOTESENSING IN THE AMAZON BASIN:
 06/16/1998 - 12/31/2001 FY01: \$189,058 Total: \$688,772
Prin. Invest.: J MELACK
Tech. Officer: GSFC/D DEERING
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 5 282 UNIV OF CALIFORNIA - SANTA BARBARA 2734
 LAND-COVER CONVERSION IN AMAZONIA, THE ROLE OF ENVIRONMENT AND SUBSTRATE COMPOSITION IN MODIFYING SO
 06/12/1998 - 12/31/2001 FY01: \$176,726 Total: \$706,442
Prin. Invest.: O A CHADWICK
Tech. Officer: GSFC/D W DEERING
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 5 302 UNIV OF CALIFORNIA - SANTA BARBARA 2735
 THE EARTH SYSTEM SCIENCE WORKBENCH: A SCALABLE INFRASTRUCTURE FOR ESIP'S
 04/09/1998 - 11/30/2001 FY01: \$673,000 Total: \$3,398,000
Prin. Invest.: J FREW
Tech. Officer: GSFC/M MAIDEN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 496 UNIV OF CALIFORNIA - SANTA BARBARA 2736
 HYPERION APPLICATIONS & VALIDATION FOR FIRE HAZARD ASSESSMENT IN THE SANTA MONICA MOUNTAINS, CALIF
 04/19/2000 - 12/31/2001 FY01: \$39,854 Total: \$74,343
Prin. Invest.: D A ROBERTS
Tech. Officer: GSFC/S G UNGAR
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 5 589 UNIV OF CALIFORNIA - SANTA BARBARA 2737
 HYPERSPECTRAL ANALYSIS OF LAND-COVER IN RONDONIA
 09/20/2001 - 09/30/2004 FY01: \$20,864 Total: \$20,864
Prin. Invest.: D A ROBERTS
Tech. Officer: GSFC/D W DEERING
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 3 52317 UNIV OF CALIFORNIA - SANTA BARBARA 2738
 GRADUATE STUDENT RESEARCHERS PROGRAM
 08/05/1996 - 11/30/1999 FY01: -\$4,000 Total: \$58,781
Prin. Invest.: S BANERJEE
Tech. Officer: GRC/D MONTEGANI
CASE Category: 43 - CHEMICAL ENGR

NGT 4 52407 UNIV OF CALIFORNIA - SANTA BARBARA 2739
 GSRP ANALYSIS OF ADAPTIVE CONTROL OF AEROELASTIC STRUCTURES USING MULTIDISCIPLINARY STARS PROGRAMS
 06/18/1998 - 07/31/2002 FY01: \$0 Total: \$66,000
Prin. Invest.: J C BRUCH, DR., J TARANTINO
Tech. Officer: SSC/K GUPTA, SSC/L S VOELKER
CASE Category: 41 - AERONAUTICAL ENGR

NGT 4 52423 UNIV OF CALIFORNIA - SANTA BARBARA 2740
 DEVELOPMENT OF THE EIGENVECTOR ORIENTATION METHOD FOR FLUTTER PREDICTIONS
 06/02/2000 - 06/30/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: H T YANG
Tech. Officer: DFRC/K K GUPTA
CASE Category: 41 - AERONAUTICAL ENGR

NGT 4 52428 UNIV OF CALIFORNIA - SANTA BARBARA 2741
 DETERMINING MECHANICAL PROPERTIES OF NANO MATERIALS USING NANOINDENTATION AND A FINITE ELEMENT METHOD
 07/20/2001 - 06/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: H YANG, NONE
Tech. Officer: DFRC/K K GUPTA
CASE Category: 41 - AERONAUTICAL ENGR

NGT 5 30063 UNIV OF CALIFORNIA - SANTA BARBARA 2742
 BIO-OPTICAL ANALYSIS OF PRIMARY PRODUCTIVITY AND CLIMATE CHANGE IN ANTARCTIC COASTAL WATERS
 09/10/1997 - 08/31/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: R SMITH
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30173 UNIV OF CALIFORNIA - SANTA BARBARA 2743
 MASS BALANCE OF SEDIMENT TRANSPORT ACROSS COASTAL MARGIN FILTERS AT THE BASE OF THE TRANSVERSE RANGE
 09/22/1998 - 08/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: MERTES, WARRICK
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30194 UNIV OF CALIFORNIA - SANTA BARBARA 2744
 A TOP-DOWN APPROACH TO UNDERSTANDING & PREDICTING DIMETHYL-SULFIDE VARIABILITY IN THE SARGASSO SEA
 08/18/1999 - 08/31/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: D A SIEGEL, TOOLE
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30201 UNIV OF CALIFORNIA - SANTA BARBARA 2745
 MONITORING POPULATION AND THE EXTENT OF HUMAN SETTLEMENT IN THE BRAZILIAN AMAZON WITH SYNTH
 08/24/1999 - 08/31/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: K C CLARKE
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30225 UNIV OF CALIFORNIA - SANTA BARBARA 2746
 REGIONAL BIOGEOCHEMISTRY OF LAND USE CHANGE IN THE HUMID TROPICS: DETECTION & MODELING OF THE
 08/14/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: T DUNNE
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30332 UNIV OF CALIFORNIA - SANTA BARBARA 2747
 INTERACTIONS OF LAND COVER CHANGE & TOPOGRAPHY IN THE HYDRO-
 LOGIC RESPONSE OF MESOSCALE TROPIC
 08/14/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: T DUNNE
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30357 UNIV OF CALIFORNIA - SANTA BARBARA 2748
 THE ROLE OF TOPOGRAPHY & PROXIMITY TO BEDROCK IN DETERMINING
 NUTRIENT SUPPLY TO A SEASONAL AMAZONI
 08/22/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: O CHADWICK
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30400 UNIV OF CALIFORNIA - SANTA BARBARA 2749
 REMOTE SENSING OF ANTHROPOGENIC BIOMASS BURNING & FOREST
 DEGRADATION IN MADAGASCAR: THE DEVELOPMENT
 08/14/2001 - 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: D ROBERTS
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30406 UNIV OF CALIFORNIA - SANTA BARBARA 2750
 SATELLITE DETECTION OF TRICHODESMIUM SPP. AND ITS RELATION
 TO ATMOSPHERIC DUST DEPOSITIONS
 08/15/2001 - 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: D SIEGEL
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30413 UNIV OF CALIFORNIA - SANTA BARBARA 2751
 ROLES OF REGIONAL CLIMATOLOGY IN THE NORTH AFRICAN DESERT
 DUST. STUDENT: MASARU YOSHIOKA
 08/14/2001 - 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: N MAHOWALD
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50192 UNIV OF CALIFORNIA - SANTA BARBARA 2752
 MEASUREMENT OF CMB ANISOTROPIES FOR DETERMINATION OF
 COSMOLOGICAL PARAMETERS
 06/05/1998 - 06/30/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: P LUBIN
Tech. Officer: HQ/A NURRIDIN
CASE Category: 13 - PHYSICS

NGT 5 50269 UNIV OF CALIFORNIA - SANTA BARBARA 2753
 B2K, AN EXPERIMENT TO MEASURE THE POLARIZATION OF THE CMB
 06/22/2000 - 06/30/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: J RUHL, NONE
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50327 UNIV OF CALIFORNIA - SANTA BARBARA 2754
 MAPPING WILDLAND FUELS USING COMBINED HYPERSPECTRAL &
 SYNTHETIC APERTURE RADAR FOR FIRE HAZARD
 08/17/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: D A ROBERTS
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 2 1239 UNIV OF CALIFORNIA - SANTA CRUZ 2755
 ACCELERATED TIME-VARYING FLOW VISUALIZATION WITH FEATURE
 PRESERVATION
 07/17/1998 - 10/31/2000 FY01: \$0 Total: \$117,000
Prin. Invest.: A VANGELDER, J WILHELMS
Tech. Officer: ARC/A VAZIRI, ARC/M GERALD-YAMASAKI
CASE Category: 22 - COMPUTER SCIENCE

NAG 5 3232 UNIV OF CALIFORNIA - SANTA CRUZ 2756
 THE PROPERTIES OF INTERSTELLAR DUST GRAINS IN CIRRUS CLOUDS
 05/08/1996 - 04/30/2000 FY01: -\$599 Total: \$245,296
Prin. Invest.: P GUHATHAKURTA
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 3507 UNIV OF CALIFORNIA - SANTA CRUZ 2757
 ISO DEEP SURVEY
 10/31/1996 - 11/14/2000 FY01: -\$1 Total: \$39,999
Prin. Invest.: D C KOO
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 4445 UNIV OF CALIFORNIA - SANTA CRUZ 2758
 PHOTON-WEIGHTED MIDPOINT EXPOSURE METER FOR KECK/H
 RESEARCH
 04/25/1997 - 04/30/2001 FY01: \$0 Total: \$205,494
Prin. Invest.: D S VOGT
Tech. Officer: GSFC/S HOWARD
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 4494 UNIV OF CALIFORNIA - SANTA CRUZ 2759
 FORMATION AND EARLY EVOLUTION OF SOLAR AND EXTRA-S
 04/30/1997 - 03/31/2001 FY01: \$0 Total: \$112,776
Prin. Invest.: D H BODENHEIMER
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 4610 UNIV OF CALIFORNIA - SANTA CRUZ 2760
 MAJOR UNRESOLVED PROBLEMS IN FU ORIONIS SYSTEMS
 05/20/1997 - 05/31/2000 FY01: \$0 Total: \$150,000
Prin. Invest.: D H BODENHEIMER
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 4665 UNIV OF CALIFORNIA - SANTA CRUZ 2761
 STRUCTURE AND FUNCTION OF ENCAPSULATED REPLICATING
 06/05/1997 - 12/31/1999 FY01: -\$712 Total: \$340,201
Prin. Invest.: D DEAMER
Tech. Officer: GSFC/M MEYER
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 5 7245 UNIV OF CALIFORNIA - SANTA CRUZ 2762
 GEOPHYSICS OF SMALL PLANETARY BODIES
 04/15/1998 - 10/14/1999 FY01: -\$208 Total: \$156,192
Prin. Invest.: E ASPHAUG
Tech. Officer: GSFC/P ROGERS
CASE Category: 11 - ASTRONOMY

NAG 5 7515 UNIV OF CALIFORNIA - SANTA CRUZ 2763
 TIDALLY DRIVEN G-MODE OSCILLATION IN SOLAR-TYPE STARS BY
 CLOSEPLANETARY COMPANIONS
 05/29/1998 - 05/31/2001 FY01: \$0 Total: \$135,000
Prin. Invest.: D LIN
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8128 UNIV OF CALIFORNIA - SANTA CRUZ 2764
 THREE DIMENSIONAL MODELS FOR GAMMA-RAY BURSTS AND SUPER-
 NOVAE (ATP98)
 02/05/1999 - 02/14/2002 FY01: \$96,000 Total: \$273,606
Prin. Invest.: S E WOOSLEY
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8196 UNIV OF CALIFORNIA - SANTA CRUZ 2765
 THE GROWTH OF PROTOGIANT PLANETS IN PROTOSTELLAR DISKS
 02/04/1999 - 01/31/2002 FY01: \$45,000 Total: \$130,000
Prin. Invest.: D N LIN
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8218 UNIV OF CALIFORNIA - SANTA CRUZ 2766
 TESTING INFLATION AND DARK MATTER WITH NEW DATA, MODELS, AND
 METHODS(ATP98)
 02/08/1999 - 02/14/2002 FY01: \$228,138 Total: \$665,901
Prin. Invest.: J R PRIMACK
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8348 UNIV OF CALIFORNIA - SANTA CRUZ 2767
 THE PROPERTIES OF INTERSTELLAR DUST GRAINS IN IRAS 'CIRRUS'
 CLOUDS(ATP98)
 03/01/1999 - 04/30/2002 FY01: \$55,901 Total: \$159,572
Prin. Invest.: P GUHATHAKURTA
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8409 UNIV OF CALIFORNIA - SANTA CRUZ 2768
 EVOLUTION OF HOT GAS IN ELLIPTICAL GALAXIES (ATP 98)
 03/15/1999 - 03/31/2002 FY01: \$43,000 Total: \$121,622
Prin. Invest.: W G MATHEWS
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8750 UNIV OF CALIFORNIA - SANTA CRUZ 2769
 MONITORING ECOSYSTEM CONDITION AND STRESS IN THE SAN PABLO
 BAY, CA REGION
 09/08/1999 - 09/14/2002 FY01: \$61,210 Total: \$190,492
Prin. Invest.: R KUDELA
Tech. Officer: GSFC/J W MARRA
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8855 UNIV OF CALIFORNIA - SANTA CRUZ 2770
 COMPOUND REMOTE SENSING FOR THE DETERMINATION OF NEW
 PRIMARY PRODUCTION IN COASTAL WATERS
 11/23/1999 - 11/30/2001 FY01: \$79,639 Total: \$157,149
Prin. Invest.: R KUDELA
Tech. Officer: GSFC/J MARRA
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8914 UNIV OF CALIFORNIA - SANTA CRUZ 2771
 SMALL BODIES AND PLANETARY COLLISIONS
 01/27/2000 - 12/31/2001 FY01: \$114,000 Total: \$222,300
Prin. Invest.: E ASPHAUG
Tech. Officer: GSFC/J A GRANT
CASE Category: 11 - ASTRONOMY

NAG 5 9391 UNIV OF CALIFORNIA - SANTA CRUZ 2772
 WORKSTATION CLUSTER FOR SMALL BODIES AND PLANETARY COLLI-
 SIONS
 04/04/2000 - 04/14/2001 FY01: \$0 Total: \$25,000
Prin. Invest.: E ASPHAUG
Tech. Officer: GSFC/J A GRANT
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 9403 UNIV OF CALIFORNIA - SANTA CRUZ 2773
 STRUCTURE AND FUNCTION OF ENCAPSULATED REPLICATING SYSTEMS
 04/06/2000 - 03/31/2002 FY01: \$117,000 Total: \$227,214
Prin. Invest.: D DEAMER
Tech. Officer: GSFC/M MEYER
CASE Category: 11 - ASTRONOMY

NAG 5 9526 UNIV OF CALIFORNIA - SANTA CRUZ 2774
 MULTIDIMENSIONAL MODELING OF THE SOLAR NEBULA: A BETTER TOOL
 FOR UNDERSTANDING OBSERVATIONS
 04/28/2000 - 05/31/2002 FY01: \$0 Total: \$45,000
Prin. Invest.: P BODENHEIMER
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 9661 UNIV OF CALIFORNIA - SANTA CRUZ 2775
 FORMATION AND EARLY EVOLUTION OF SOLAR AND EXTRA-SOLAR
 GIANT PLANETS
 06/01/2000 - 06/14/2002 FY01: \$38,000 Total: \$66,000
Prin. Invest.: P BODENHEIMER
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 9711 UNIV OF CALIFORNIA - SANTA CRUZ 2776
 OBSERVATIONS OF ROTATION POWERED PULSARS IN SUPPORT OF GLAST
 06/15/2000 - 06/14/2002 FY01: \$37,000 Total: \$50,903
Prin. Invest.: D E THORSETT
Tech. Officer: GSFC/S LAMBROS
CASE Category: 11 - ASTRONOMY

NAG 5 9956 UNIV OF CALIFORNIA - SANTA CRUZ 2777
 HOT GAS ENRICHMENT BY DWARF GALAXIES IN THE 5044 GALAXY GROUP
 09/13/2000 - 09/14/2001 FY01: \$0 Total: \$16,000
Prin. Invest.: W G MATHEWS
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 9966 UNIV OF CALIFORNIA - SANTA CRUZ 2778
 FE K-ALPHA EMISSION IN THE BRIGHT ELLIPTICAL GALAXY NGC 1399
 09/26/2000 - 12/31/2000 FY01: -\$18,000 Total: \$0
Prin. Invest.: D BUOTE
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10039 UNIV OF CALIFORNIA - SANTA CRUZ 2779
 X-RAY ISOPHOTE SHAPES AND THE DARK MATTER HALO OF NGC 3923
 10/03/2000 - 12/31/2000 FY01: \$0 Total: \$0
Prin. Invest.: D BUOTE
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10053 UNIV OF CALIFORNIA - SANTA CRUZ 2780
 THE X-RAY HALOS OF EXTREMELY LUMINOUS GIANT LSB & HSB DISK GALAXIES
 12/06/2000 - 12/14/2001 FY01: \$13,526 Total: \$13,526
Prin. Invest.: B J WEINER
Tech. Officer: GSFC/R F MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10232 UNIV OF CALIFORNIA - SANTA CRUZ 2781
 THE IONIZATION HISTORY OF THE INTERGALACTIC MEDIUM
 01/24/2001 - 11/30/2002 FY01: \$67,957 Total: \$67,957
Prin. Invest.: P MADAU
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 10612 UNIV OF CALIFORNIA - SANTA CRUZ 2782
 GROWTH OF PLANETESIMALS IN A PROTOSTELLAR DISK ENVIRONMENT
 03/17/2001 - 03/14/2002 FY01: \$55,000 Total: \$55,000
Prin. Invest.: D LIN
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 10676 UNIV OF CALIFORNIA - SANTA CRUZ 2783
 BEOWULF CLUSTER FOR SMALL BODIES AND PLANETARY COLLISIONS
 03/30/2001 - 03/31/2002 FY01: \$51,700 Total: \$51,700
Prin. Invest.: E ASPHAUG
Tech. Officer: GSFC/D SENSKE
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 10683 UNIV OF CALIFORNIA - SANTA CRUZ 2784
 PHYSICAL PROPERTIES OF A Z < 1 LYMAN LIMIT SYSTEM - FUSE 2000
 03/29/2001 - 03/31/2002 FY01: \$2,250 Total: \$2,250
Prin. Invest.: B J WEINER
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 10727 UNIV OF CALIFORNIA - SANTA CRUZ 2785
 TIDAL INTERACTION BETWEEN SHORT-PERIOD PLANETS AND THEIR HOST STARS
 04/09/2001 - 04/14/2002 FY01: \$40,000 Total: \$40,000
Prin. Invest.: D LIN
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 11220 UNIV OF CALIFORNIA - SANTA CRUZ 2786
 CONVECTION AND MAGNETIC FIELD GENERATION IN GIANT AND EXTRA-SOLAR PLANETS: NUMERICAL SIMULATION
 08/13/2001 - 08/31/2004 FY01: \$107,000 Total: \$107,000
Prin. Invest.: G A GLATZMAIER
Tech. Officer: GSFC/D J BOGAN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 2 1037 UNIV OF CALIFORNIA - SANTA CRUZ 2787
 (NAS) AMES EDUCATION ASSOCIATES PROGRAM
 05/08/1998 - 06/30/2002 FY01: \$1,396,962 Total: \$3,348,045
Prin. Invest.: D L STANSBURY
Tech. Officer: ARC/S . PARKHUST, ARC/R G O'BRIEN III
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 2 1081 UNIV OF CALIFORNIA - SANTA CRUZ 2788
 STAR & PLANET FORMATION
 01/15/1999 - 02/28/2002 FY01: \$16,378 Total: \$365,251
Prin. Invest.: P H BODENHEIMER
Tech. Officer: ARC/D J HOLLENBACH, ARC/P CASSEN
CASE Category: 11 - ASTRONOMY

NCC 2 1260 UNIV OF CALIFORNIA - SANTA CRUZ 2789
 COMPARING & UNDERSTANDING DATA DISTRIBUTIONS IN EOS APPLICATIONS
 04/26/2001 - 02/28/2002 FY01: \$67,301 Total: \$67,301
Prin. Invest.: A PANG
Tech. Officer: ARC/D L KAO, ARC/V R WATSON
CASE Category: 22 - COMPUTER SCIENCE

NCC 2 5254 UNIV OF CALIFORNIA - SANTA CRUZ 2790
 PLANETARY RING/MOON SYSTEMS
 02/10/1998 - 08/31/2000 FY01: \$0 Total: \$99,202
Prin. Invest.: P BODENHEIMER, D LIN
Tech. Officer: ARC/J N CUZZI
CASE Category: 11 - ASTRONOMY

NCC 2 5281 UNIV OF CALIFORNIA - SANTA CRUZ 2791
 COMPARATIVE VISUALIZATION OF EXPERIMENTAL WIND TUNNEL DATA & COMPUTATIONAL FLUID DYNAMICS SIMULATION
 07/23/1998 - 06/30/2001 FY01: \$0 Total: \$155,413
Prin. Invest.: A PANG
Tech. Officer: ARC/A VAZIRI, ARC/M YAMASAKI
CASE Category: 22 - COMPUTER SCIENCE

NCC 2 5297 UNIV OF CALIFORNIA - SANTA CRUZ 2792
 DISTRIBUTION OF WATER & WATER-ROCK INTERACTION DURING PLANET EVOLUTION
 10/19/1998 - 08/31/2000 FY01: -\$293 Total: \$39,707
Prin. Invest.: N ROSENBERG
Tech. Officer: ARC/J N CUZZI
CASE Category: 11 - ASTRONOMY

NCC 2 5309 UNIV OF CALIFORNIA - SANTA CRUZ 2793
 FROM PREBIOTIC CHEMISTRY TO AN RNA WORLD
 02/23/1999 - 01/31/2000 FY01: -\$56 Total: \$58,004
Prin. Invest.: A KANAVARIOTI
Tech. Officer: ARC/A POHORILLE, ARC/M L FONDA
CASE Category: 12 - CHEMISTRY

NCC 2 5339 UNIV OF CALIFORNIA - SANTA CRUZ 2794
 COLLABORATIVE RESEARCH IN STABLE ISOTOPE BIOGEOCHEMISTRY
 07/30/1999 - 07/31/2001 FY01: \$11,358 Total: \$89,768
Prin. Invest.: G H RAU
Tech. Officer: ARC/D J DES MARAIS, ARC/L JAHNKE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

<p>NCC 2 5351 UNIV OF CALIFORNIA – SANTA CRUZ 2795 SEARCH FOR THE UPPER TEMPERATURE LIMIT FOR EUKARYA – IS THERE COMPLEX LIFE BEYOND EARTH? 09/03/1999 – 08/31/2001 FY01: \$0 Total: \$20,000 <i>Prin. Invest.:</i> J PEARSE, J TRENT <i>Tech. Officer:</i> ARC/M FONDA <i>CASE Category:</i> 59 – LIFE SCIENCE, OTHER</p>	<p>NGT 2 52230 UNIV OF CALIFORNIA – SANTA CRUZ 2803 EFFECTS OF WATER IMMERSION (WEIGHTLESSNESS) ON THE REGULA- TION OF RENEAL FUNCTION IN SEALS EXPOSED.. 08/19/1997 – 08/31/2001 FY01: \$0 Total: \$88,000 <i>Prin. Invest.:</i> C L ORTIZ <i>Tech. Officer:</i> ARC/C E WADE, ARC/B J CORBIN <i>CASE Category:</i> 51 – BIOLOGY (EXCLUDING ENVIR)</p>
<p>NCC 2 5358 UNIV OF CALIFORNIA – SANTA CRUZ 2796 THE MOLECULAR BASIS OF HYPERTHEMPHILY 10/18/1999 – 10/14/2001 FY01: \$0 Total: \$65,540 <i>Prin. Invest.:</i> G MILLHAUSER, R A BOGOMOLNI, J D TRENT <i>Tech. Officer:</i> ARC/M KLISS <i>CASE Category:</i> 51 – BIOLOGY (EXCLUDING ENVIR)</p>	<p>NGT 2 52260 UNIV OF CALIFORNIA – SANTA CRUZ 2804 VIOLENT VAGABONDS: THE EFFECT OF LARGE IMPACTS & MIGRATION ON GIANT PLANET EVOLUTION 10/26/1999 – 10/14/2001 FY01: \$0 Total: \$44,000 <i>Prin. Invest.:</i> P H <i>Tech. Officer:</i> ARC/K J ZAHNLE <i>CASE Category:</i> 11 – ASTRONOMY</p>
<p>NCC 2 5367 UNIV OF CALIFORNIA – SANTA CRUZ 2797 NUCLEOTIDE CHEMISTRY ON PREBIOTIC EARTH 02/04/2000 – 01/31/2001 FY01: -\$4 Total: \$62,396 <i>Prin. Invest.:</i> A KANAVARIOTI <i>Tech. Officer:</i> ARC/M L FONDA <i>CASE Category:</i> 51 – BIOLOGY (EXCLUDING ENVIR)</p>	<p>NGT 5 43 UNIV OF CALIFORNIA – SANTA CRUZ 2805 MULTIWAVELENGTH STUDY OF THE EVOLUTION OF GALAXIES NMENT 06/23/1997 – 06/30/2001 FY01: \$0 Total: \$66,000 <i>Prin. Invest.:</i> P GUHATHAKURTA <i>Tech. Officer:</i> GSFC/M S BURRELL <i>CASE Category:</i> 11 – ASTRONOMY</p>
<p>NCC 2 5370 UNIV OF CALIFORNIA – SANTA CRUZ 2798 COLLABORATIVE RESEARCH ON MICROBIAL MAT NITROGEN CYCLING 03/16/2000 – 03/14/2002 FY01: \$91,906 Total: \$183,855 <i>Prin. Invest.:</i> J P ZEHR, NONE <i>Tech. Officer:</i> ARC/B N BEBOUT/M L FONDA <i>CASE Category:</i> 51 – BIOLOGY (EXCLUDING ENVIR)</p>	<p>NGT 5 108 UNIV OF CALIFORNIA – SANTA CRUZ 2806 MULTI-WAVELENGTH STUDY OF GRBS USING BATSE, HETE II & MILAGRO (STUDENT: MIGUEL MORALES) 06/12/2000 – 06/30/2002 FY01: \$22,000 Total: \$44,000 <i>Prin. Invest.:</i> D A WILLIAMS <i>Tech. Officer:</i> GSFC/G A SOFFEN <i>CASE Category:</i> 13 – PHYSICS</p>
<p>NCC 2 5418 UNIV OF CALIFORNIA – SANTA CRUZ 2799 GIANT MOLECULAR CLOUD STRUCTURE & EVOLUTION 02/01/2001 – 02/28/2002 FY01: \$61,450 Total: \$61,450 <i>Prin. Invest.:</i> P BODENHEIMER <i>Tech. Officer:</i> ARC/D J HOLLENBACH, LARC/G LAUGHLIN <i>CASE Category:</i> 11 – ASTRONOMY</p>	<p>NGT 5 30074 UNIV OF CALIFORNIA – SANTA CRUZ 2807 THE EVOLUTION OF STREAM CHANNELS IN A PROGRESSIVE N: THE FINIS- TERRE RANGE, PAUA NEW GUINEA 09/09/1997 – 02/28/2001 FY01: \$0 Total: \$66,000 <i>Prin. Invest.:</i> D SILVER <i>Tech. Officer:</i> GSFC/G ASRAR <i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER</p>
<p>NCC 2 5428 UNIV OF CALIFORNIA – SANTA CRUZ 2800 THREE-DIMENSIONAL MODELING OF ASTEROID & CORNET IM PACTS INTO PLANETARY ATMOSPHERES 03/14/2001 – 08/31/2001 FY01: \$30,222 Total: \$30,222 <i>Prin. Invest.:</i> E I ASPHAUGH <i>Tech. Officer:</i> ARC/K J ZAHNLE, ARC/R E YOUNG <i>CASE Category:</i> 11 – ASTRONOMY</p>	<p>NGT 5 30112 UNIV OF CALIFORNIA – SANTA CRUZ 2808 EROSION AND SEDIMENT FLUXES BY VALLEY GLACIERS THROUGHTHE CLIMATECYCLE: LINKS BETWEEN ALPINE 08/28/1998 – 08/31/2001 FY01: \$0 Total: \$66,000 <i>Prin. Invest.:</i> R S ANDERSON <i>Tech. Officer:</i> GSFC/M Y WEI <i>CASE Category:</i> 39 – ENVIRONMENTAL SCI, OTHER</p>
<p>NCC 2 5436 UNIV OF CALIFORNIA – SANTA CRUZ 2801 ORIGINS & STRUCTURES OF PLANETARY & SATELLITE SYSTEMS 05/18/2001 – 04/30/2002 FY01: \$49,383 Total: \$49,383 <i>Prin. Invest.:</i> P BODENHEIMER, A R DOBROVOLSKI <i>Tech. Officer:</i> ARC/J N CUZZI <i>CASE Category:</i> 11 – ASTRONOMY</p>	<p>NGT 5 30415 UNIV OF CALIFORNIA – SANTA CRUZ 2809 MODELING REEF ACCRETION RATES USING HYPERSPECTRAL REMOTE SENSING ANDFIELD MEASUREMENTS IN THE NO 08/16/2001 – 08/31/2004 FY01: \$22,000 Total: \$22,000 <i>Prin. Invest.:</i> D POTTS <i>Tech. Officer:</i> GSFC/M WEI <i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER</p>
<p>NCC 2 5456 UNIV OF CALIFORNIA – SANTA CRUZ 2802 C/C VARIATIONS IN AQUATIC PHOTOAUTOTROPHS: THE POSSIBLE CONTRIBUTION OF PHOTORESPIRATORY CARBON EX 08/15/2001 – 07/31/2002 FY01: \$21,423 Total: \$21,423 <i>Prin. Invest.:</i> G H RAU <i>Tech. Officer:</i> ARC/D DESMARAIS, ARC/L JAHNKE <i>CASE Category:</i> 39 – ENVIRONMENTAL SCI, OTHER</p>	<p>NGT 5 90077 UNIV OF CALIFORNIA – SANTA CRUZ 2810 GRPS: PHYSICAL MECHANISMS FOR LONG-TERM CLIMATE VA 09/08/1997 – 08/31/2000 FY01: -\$823 Total: \$65,177 <i>Prin. Invest.:</i> G VALLIS <i>Tech. Officer:</i> GSFC/G ASRAR <i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER</p>

<p>NAG 5 9570 UNIV OF REDLANDS 2811 TECHNOLOGY INFRASTRUCTURE FOR TEACHING, RESEARCH, AND INFORMATION SHARING 05/15/2000 – 04/30/2001 FY01: \$0 Total: \$3,228,000 <i>Prin. Invest.:</i> P DOOLITTLE <i>Tech. Officer:</i> HQ/M PHELPS <i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER</p>	<p>NAG 2 1489 UNIV OF SOUTHERN CALIFORNIA 2819 INVESTIGATING TEAMWORK AMONG SPACECRAFT (NEWAMES) 06/28/2001 – 11/30/2001 FY01: \$50,000 Total: \$50,000 <i>Prin. Invest.:</i> M TAMBE <i>Tech. Officer:</i> ARC/C J PLAUNT, ARC/J BRESINA <i>CASE Category:</i> 22 – COMPUTER SCIENCE</p>
<p>NAG 5 11366 UNIV OF REDLANDS 2812 SCIENCE AND MATHEMATICS BUILDING PROJECT 09/28/2001 – 09/30/2002 FY01: \$1,831,000 Total: \$1,831,000 <i>Prin. Invest.:</i> J R APPLETON <i>Tech. Officer:</i> GSFC/M V PHELPS <i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER</p>	<p>NAG 3 1842 UNIV OF SOUTHERN CALIFORNIA 2820 GROUND BASED STUDIES OF INTERNAL FLOWS IN LEVIATED LASER – HEATED DROPS 05/03/1996 – 10/31/2000 FY01: \$0 Total: \$554,999 <i>Prin. Invest.:</i> S S SADHAL <i>Tech. Officer:</i> GRC/B S SINGH <i>CASE Category:</i> 46 – MECHANICAL ENGR</p>
<p>NAG 5 10049 UNIV OF SAN DIEGO 2813 INNOVATIVE CURRICULAR REVISION & RESEARCH IN FIELD OF EARTH- SYSTEM & SPACE SCIENCE 10/13/2000 – 09/30/2001 FY01: \$458,000 Total: \$458,000 <i>Prin. Invest.:</i> S LOWERY <i>Tech. Officer:</i> GSFC/M PHELPS <i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER</p>	<p>NAG 3 1877 UNIV OF SOUTHERN CALIFORNIA 2821 DETAILED STUDIES ON THE STRUCTURE AND DYNAMICS OF REACTING DUSTING FLOWS IN NORMAL AND MICROGRAVITY 06/01/1996 – 01/01/2001 FY01: \$0 Total: \$393,615 <i>Prin. Invest.:</i> P N EGOLFOPOULOS, P S CAMPBELL <i>Tech. Officer:</i> GRC/D D ROSS, GRC/M A SOCKSTEILER <i>CASE Category:</i> 46 – MECHANICAL ENGR</p>
<p>NAG 9 1354 UNIV OF SAN DIEGO 2814 FABRICATION AND GROWTH OF ENGINEERED TISSUES: ARTICULAR CARTI- LAGE W/BIOLOGICAL FUNCTIONAL STRAT 08/17/2001 – 09/30/2004 FY01: \$59,000 Total: \$59,000 <i>Prin. Invest.:</i> R SAH, A HOGER, S N BHATIA <i>Tech. Officer:</i> JSC/D RISIN <i>CASE Category:</i> 56 – MEDICL</p>	<p>NAG 3 2124 UNIV OF SOUTHERN CALIFORNIA 2822 STRUCTURE OF FLAME BALLS IN LOW LEWIS NUMBER STRUCTURE OF FLAME BALLS IN LOW LEWIS NUMBER 02/10/1998 – 04/30/2003 FY01: \$214,709 Total: \$843,809 <i>Prin. Invest.:</i> P D RONNEY <i>Tech. Officer:</i> GRC/K J WEILAND <i>CASE Category:</i> 46 – MECHANICAL ENGR</p>
<p>NCC 5 308 UNIV OF SAN DIEGO 2815 CREATIVE & INNOVATIVE WORKING PHOTOTYPE EARTH SCIENCE INFOR. PARTNERSHIP IN SUPPORT OF EARTH 01/15/1998 – 11/30/2001 FY01: \$250,000 Total: \$1,375,000 <i>Prin. Invest.:</i> J J SIMPSON <i>Tech. Officer:</i> GSFC/M MAIDEN <i>CASE Category:</i> 39 – ENVIRONMENTAL SCI, OTHER</p>	<p>NAG 3 2125 UNIV OF SOUTHERN CALIFORNIA 2823 THE DYNAMICS OF MISCIBLE INTERFACES: A SPACE FLIGHT EXPERIMENT 02/25/1998 – 12/31/2002 FY01: \$127,848 Total: \$575,847 <i>Prin. Invest.:</i> T MAXWORTHY, E H MEIBURG <i>Tech. Officer:</i> GRC/B SIGH <i>CASE Category:</i> 46 – MECHANICAL ENGR</p>
<p>NCC 2 893 UNIV OF SAN FRANCISCO 2816 ENVIRONMENTAL RADIATION MEASUREMENTS ON THE MIR SP ACE STATION 03/27/1995 – 08/31/2000 FY01: \$0 Total: \$601,588 <i>Prin. Invest.:</i> E V BENTON, A L FRANK, R P KEEGAN <i>Tech. Officer:</i> ARC/C M WINGET, ARC/G C JAHNS <i>CASE Category:</i> 51 – BIOLOGY (EXCLUDING ENVIR)</p>	<p>NAG 3 2478 UNIV OF SOUTHERN CALIFORNIA 2824 THE DYNAMICS OF PARTICULATE DEPOSITION AND RESUSPENSION PROCESSES AT MODERATE TO HIGH REYNOLDS NUMBER 08/09/2000 – 11/30/2003 FY01: \$59,115 Total: \$92,026 <i>Prin. Invest.:</i> D MAXWORTHY <i>Tech. Officer:</i> GRC/F P CHARIAMONTE <i>CASE Category:</i> 49 – ENGINEERING, OTHER</p>
<p>NCC 2 1282 UNIV OF SAN FRANCISCO 2817 DOES GRAVITY INFLUENCE MATRIX SURVIVAL SIGNALING 09/10/2001 – 09/30/2002 FY01: \$13,021 Total: \$13,021 <i>Prin. Invest.:</i> C H DAMSKY <i>Tech. Officer:</i> ARC/E A ALMEIDA, ARC/E M HOLTON <i>CASE Category:</i> 51 – BIOLOGY (EXCLUDING ENVIR)</p>	<p>NAG 3 2559 UNIV OF SOUTHERN CALIFORNIA 2825 INTEGRATED MICROPHONIC RECEIVER FOR KA-BAND INTEGRATED MICR- PHONIC RECEIVER FOR KA-BAND 03/10/2001 – 01/15/2004 FY01: \$262,500 Total: \$262,500 <i>Prin. Invest.:</i> A LEVI <i>Tech. Officer:</i> GRC/J POUCH <i>CASE Category:</i> 45 – ELECTRICAL ENGR</p>
<p>NAG 1 1996 UNIV OF SOUTHERN CALIFORNIA 2818 TURBULENCE EFFECTS ON VERY LARGE FLIGHT VEHICLES. 01/23/1998 – 01/31/2002 FY01: \$0 Total: \$226,000 <i>Prin. Invest.:</i> P B LISSAMAN <i>Tech. Officer:</i> LARC/J R CURZ <i>CASE Category:</i> 41 – AERONAUTICAL ENGR</p>	<p>NAG 5 2313 UNIV OF SOUTHERN CALIFORNIA 2826 LONG-TERM FUV FLUX AND WIND VARIABILITY IN BE STAR S AND MULTI- WAVELENGTH OBS. AT EQUATOR-ON 07/12/1993 – 07/14/2000 FY01: \$670 Total: \$25,000 <i>Prin. Invest.:</i> G J PETERS <i>Tech. Officer:</i> GSFC/R OLIVERSEN <i>CASE Category:</i> 11 – ASTRONOMY</p>

NAG 5 3429 UNIV OF SOUTHERN CALIFORNIA 2827
 THE ABUNDANCES OF THE IRON GROUP ELEMENTS IN EARLY B STARS
 10/21/1996 - 10/31/2001 FY01: \$0 Total: \$65,300
Prin. Invest.: G J PETERS
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 4488 UNIV OF SOUTHERN CALIFORNIA 2828
 EUVE OBSERVATIONS OF ACTIVE B STARS
 06/04/1997 - 05/31/2000 FY01: -\$77 Total: \$17,289
Prin. Invest.: G J PETERS
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 5018 UNIV OF SOUTHERN CALIFORNIA 2829
 ROCKET UNDERFLIGHTS FOR SOHO CROSS-CALIBRATION AND SOLAR
 ATMOSPHERE INVESTIGATIONS
 02/28/1994 - 08/31/2001 FY01: \$0 Total: \$1,669,385
Prin. Invest.: D J JUDGE
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 - PHYSICS

NAG 5 5333 UNIV OF SOUTHERN CALIFORNIA 2830
 FIRST OF 3 YEAR EFFORT IN BASIC SCIENTIFIC RESEARCH WITH USC
 06/25/2001 - 06/18/2004 FY01: \$289,969 Total: \$289,969
Prin. Invest.: D JUDGE
Tech. Officer: WFF/J BRINTON
CASE Category: 13 - PHYSICS

NAG 5 6360 UNIV OF SOUTHERN CALIFORNIA 2831
 OCEAN COLOR ALGORITHMS FOR PHOTOSYNTHETIC RATE AND BIO-OP-
 TICAL COMPONENT
 10/24/1997 - 03/14/2001 FY01: \$0 Total: \$508,091
Prin. Invest.: D A KIEFER
Tech. Officer: GSFC/J A YODER
CASE Category: 33 - OCEANOGRAPHY

NAG 5 6512 UNIV OF SOUTHERN CALIFORNIA 2832
 OPTICAL AND ANCILLARY MEASUREMENTS AT HIGH LATITUDES IN
 SUPPORT OF THE MODIS OCEAN VALIDATION PROG
 12/05/1997 - 03/31/2002 FY01: \$62,354 Total: \$310,372
Prin. Invest.: M STRAMSKA
Tech. Officer: GSFC/D O STARR
CASE Category: 19 - PHYSICALSCIENCE, OTHER

NAG 5 6696 UNIV OF SOUTHERN CALIFORNIA 2833
 AN INVESTIGATION OF THE HIGH TEMPERATURE CIRCUMSTELLAR
 PLASMA IN ALGOL-TYPE INTERACTING BINARIES
 12/17/1997 - 12/31/2001 FY01: \$0 Total: \$40,000
Prin. Invest.: G J PETERS
Tech. Officer: GSFC/R POLIDAN
CASE Category: 11 - ASTRONOMY

NAG 5 6966 UNIV OF SOUTHERN CALIFORNIA 2834
 PHYSICAL PROCESSES AT THE HELIOSPHERIC BOUNDARY AND THEIR
 DETECTABLE SIGNATURES AT 1 AU. A THEORETICAL
 03/05/1998 - 12/31/2001 FY01: \$0 Total: \$68,300
Prin. Invest.: M A GRUNTMAN
Tech. Officer: GSFC/J LING
CASE Category: 11 - ASTRONOMY

NAG 5 7117 UNIV OF SOUTHERN CALIFORNIA 2835
 EUV OBSERVATIONS OF EARLY B STARS: EUV FLUX VARIABILITY IN BETA
 CMA THROUGHOUT ITS BEAT PERIOD
 04/13/1998 - 04/14/2001 FY01: \$0 Total: \$11,520
Prin. Invest.: G J PETERS
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 7147 UNIV OF SOUTHERN CALIFORNIA 2836
 MINIATURIZED OPTICS FREE EUV ARRAY SPECTROMETER TO PROVIDE
 STABLE SOLAR EUV SPECTRA
 03/23/1998 - 04/14/2001 FY01: \$0 Total: \$228,255
Prin. Invest.: D L JUDGE
Tech. Officer: GSFC/W WAGNER
CASE Category: 11 - ASTRONOMY

NAG 5 7222 UNIV OF SOUTHERN CALIFORNIA 2837
 CROSS-CORRELATION ANALYSIS OF UV PROFILE VARIATIONS AND
 NONRADIAL PULSATIONS IN B STARS
 04/10/1998 - 04/14/2000 FY01: -\$17 Total: \$22,383
Prin. Invest.: G PETERS
Prin. Invest.: NONE
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 7816 UNIV OF SOUTHERN CALIFORNIA 2838
 APPLICATIONS OF THE FILTER DIAGONALIZATION SPECTRAL ESTIMATOR
 IN HELIOSEISMOLOGY
 12/14/1998 - 06/14/2000 FY01: \$0 Total: \$49,706
Prin. Invest.: W DAPPEN
Tech. Officer: GSFC/J GURMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 7902 UNIV OF SOUTHERN CALIFORNIA 2839
 EQUATION OF STATE STUDIES USING SOHO DATA
 12/10/1998 - 12/31/2000 FY01: \$0 Total: \$45,728
Prin. Invest.: W DAPPEN
Tech. Officer: GSFC/J GURMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 8021 UNIV OF SOUTHERN CALIFORNIA 2840
 STUDIES OF SOLAR INTERNAL STRUCTURE AND DYNAMICS USING HIGH
 DEGREE-POLYMODE OBSERVATIONS FROM THE
 01/22/1999 - 03/31/2002 FY01: \$72,000 Total: \$203,000
Prin. Invest.: E J RHODES
Tech. Officer: GSFC/J GURMAN
CASE Category: 11 - ASTRONOMY

NAG 5 8274 UNIV OF SOUTHERN CALIFORNIA 2841
 PHOTON ABSORPTION STUDIES OF ATMOSPHERIC GASES UNDER
 IN-SITU CONDITIONS
 04/06/1999 - 12/31/2001 FY01: \$55,000 Total: \$154,455
Prin. Invest.: D JUDGE
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 - ASTRONOMY

NAG 5 8309 UNIV OF SOUTHERN CALIFORNIA 2842
 REMOTE OPTICAL MEASUREMENTS OF NEAR-SURFACE TURBULENCE FOR THE OCEAN-AIRGAS EXCHANGE: A THEORETICAL
 03/08/1999 - 04/30/2000 FY01: -\$2,575 Total: \$27,425
Prin. Invest.: D BOGUCKI
Tech. Officer: GSFC/J CAMPBELL
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8367 UNIV OF SOUTHERN CALIFORNIA 2843
 THE ABUNDANCES OF THE IRON GROUP ELEMENTS IN EARLY B STARS (ADP98)
 03/01/1999 - 02/28/2002 FY01: \$0 Total: \$38,889
Prin. Invest.: G PETERS, NONE
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8445 UNIV OF SOUTHERN CALIFORNIA 2844
 REMOTE SENSING DETECTION AND ANALYSIS OF STORMWATER PLUMES IN SANTAMONICA BAY, CALIFORNIA
 04/07/1999 - 03/31/2000 FY01: -\$235 Total: \$100,796
Prin. Invest.: B H JONES
Tech. Officer: GSFC/J W CAMPBELL
CASE Category: 39 - ENVIRONMENTALSCI, OTHER

NAG 5 8545 UNIV OF SOUTHERN CALIFORNIA 2845
 STUDIES OF TEMPORAL CHANGES IN SOLAR INTERNAL STRUCTURE & DYNAMICS USING OBSERVATIONS OF INTERM
 05/13/1999 - 04/30/2002 FY01: \$168,205 Total: \$423,448
Prin. Invest.: E J RHODES
Tech. Officer: GSFC/W WAGNER
CASE Category: 11 - ASTRONOMY

NAG 5 8884 UNIV OF SOUTHERN CALIFORNIA 2846
 MODELING N2 AND CO2 FIXATION BY THE OCEAN DIAZOTROPHIC CYANOBACTERIUM, TRICHODESMIUM
 11/24/1999 - 09/30/2001 FY01: \$0 Total: \$59,027
Prin. Invest.: D CAPONE
Tech. Officer: GSFC/J MARRA
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8939 UNIV OF SOUTHERN CALIFORNIA 2847
 OUTER PLANET UPPER ATMOSPHERE/MAGNETOSPHERE RESEARCH
 01/14/2000 - 01/14/2002 FY01: \$75,000 Total: \$145,650
Prin. Invest.: D SHEMANSKY
Tech. Officer: GSFC/D BOGAN
CASE Category: 11 - ASTRONOMY

NAG 5 8978 UNIV OF SOUTHERN CALIFORNIA 2848
 OBSERVATION OF THE ACCRETION-DRIVEN BIPOLAR FLOWS IN THE INTERACTING BINARIES THYIA & V356 SGR FUZE
 01/24/2000 - 01/31/2002 FY01: \$0 Total: \$29,000
Prin. Invest.: G J PETERS
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 9124 UNIV OF SOUTHERN CALIFORNIA 2849
 CIRCUMSTELLAR MATERIAL & STELLAR COMPONENTS IN HR 2142, A MASSIVE INTERACTING BINARY IN A LATE EVOLU
 03/07/2000 - 03/14/2002 FY01: \$0 Total: \$29,378
Prin. Invest.: G PETERS
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9740 UNIV OF SOUTHERN CALIFORNIA 2850
 VALIDATION OF THE SEMI-DIURNAL TIDAL FLUCTUATIONS IN THE COMPUTATIONS OF WATER LEAVING RADIANCE FROM
 08/31/2000 - 08/31/2001 FY01: \$0 Total: \$27,125
Prin. Invest.: R ITURRIAGA
Tech. Officer: GSFC/J MARRA
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10399 UNIV OF SOUTHERN CALIFORNIA 2851
 MICROSCALE, MILLIWATT VACUUM PUMPS FOR SAMPLING INSTRUMENTATION
 02/13/2001 - 01/31/2002 FY01: \$174,272 Total: \$174,272
Prin. Invest.: G SHIFLETT
Tech. Officer: GSFC/M DUTTA
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 10930 UNIV OF SOUTHERN CALIFORNIA 2852
 INVESTIGATING THE EXCITATION MECHANISM FOR COMETARY X-RAY, EUV, & FUV EMISSIONS (FUSE 2000)
 05/17/2001 - 06/30/2002 FY01: \$10,000 Total: \$10,000
Prin. Invest.: D E SHEMANSKY
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 10989 UNIV OF SOUTHERN CALIFORNIA 2853
 EXPLORATION OF THE HELIOSPHERIC INTERFACE BY SOLAR BACKSCATTERED LYMAN ALPHA RADIATION: INTERPRETATIO
 06/05/2001 - 05/31/2002 FY01: \$76,041 Total: \$76,041
Prin. Invest.: P K GANGOPADHAY
Tech. Officer: GSFC/W J WAGNER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 11001 UNIV OF SOUTHERN CALIFORNIA 2854
 IMPLEMENTATION OF A NEW METHOD FOR THE COMPUTATION OF THE FREQUENCIES & FREQUENCY SPLITTINGS OF THE
 06/06/2001 - 05/31/2002 FY01: \$88,000 Total: \$88,000
Prin. Invest.: E J RHODES
Tech. Officer: GSFC/W J WAGNER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 11042 UNIV OF SOUTHERN CALIFORNIA 2855
 TEMPERATURE-DEPENDENT CROSS SECTION MEASUREMENT OF LIGHT HYDROCARBONS, IN SUPPORT OF OUTER PLANET
 06/13/2001 - 06/14/2002 FY01: \$53,000 Total: \$53,000
Prin. Invest.: C WU
Tech. Officer: GSFC/D J BOGAN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 11218 UNIV OF SOUTHERN CALIFORNIA 2856
 IMPROVE ESTIMATE OF GAS TRANSFER USING SCATTEROMET ER
 08/13/2001 - 08/31/2004 FY01: \$103,971 Total: \$103,971
Prin. Invest.: D BOGUCKI
Tech. Officer: GSFC/J MARRA
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 11304 UNIV OF SOUTHERN CALIFORNIA 2857
 MICROGRAVITY TRANSPORT PROCESSES IN FLUID, THERMAL MATERIALS AND BIOLOGICAL SCIENCES CONFERENCE
 08/30/2001 - 08/31/2002 FY01: \$15,000 Total: \$15,000
Prin. Invest.: S SADHAL
Tech. Officer: GSFC/D SPEARS
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1240 UNIV OF SOUTHERN CALIFORNIA 2858
 NUMERICAL & LABORATORY EXPERIMENTS ON INTERACTIVE DYNAMICS
 OF CONVECTION & DIRECTIONAL SOLIDIFICATION
 04/15/1996 - 04/30/2001 FY01: \$0 Total: \$499,997
Prin. Invest.: T MAXWORTHY, E MEIBURG
Tech. Officer: MSFC/P DOTY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1663 UNIV OF SOUTHERN CALIFORNIA 2859
 NON-INTRUSIVE MEASUREMENT OF THERMOPHYSICAL PROPERTIES OF
 LIQUIDS BY ELECTROSTATIC LEVITATION
 06/16/2000 - 11/30/2003 FY01: \$85,500 Total: \$300,500
Prin. Invest.: S SADHAL
Tech. Officer: MSFC/P DOTY
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1701 UNIV OF SOUTHERN CALIFORNIA 2860
 EXTINCTION AND INSTABILITY MECHANISMS OF POLYMERIZATION
 FRONTS
 07/19/2000 - 11/30/2003 FY01: \$95,000 Total: \$135,000
Prin. Invest.: P RONNEY
Tech. Officer: MSFC/P DOTY
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 9 1165 UNIV OF SOUTHERN CALIFORNIA 2861
 AUGMENTED REALITY FOR SPACE FLIGHT
 12/07/1999 - 12/09/2002 FY01: \$208,525 Total: \$413,559
Prin. Invest.: U NEUMANN
Tech. Officer: JSC/B J WOOLFORD
CASE Category: 59 - LIFE SCIENCE, OTHER

NAS 2 00091 UNIV OF SOUTHERN CALIFORNIA 2862
 OPERATION / MGMT OF NASA FAR WEST RTTC
 12/21/2000 - 12/31/2002 FY01: \$1,202,845 Total: \$1,202,845
Prin. Invest.: K DOZIER
Tech. Officer: ARC/C COSTELLANO, ARC/B ROBINSON
CASE Category: 42 - ASTRONAUTICAL ENGR

NAS 5 99232 UNIV OF SOUTHERN CALIFORNIA 2863
 SENSOR INTERCOMPARISON & MERGER FOR BIOLOGICAL & INTERDIS-
 CIPLINARY STUDIES.
 08/31/1999 - 08/30/2000 FY01: \$118 Total: \$110,818
Prin. Invest.: D G CAPONE
Tech. Officer: GSFC/C MCCLAIN
CASE Category: 33 - OCEANOGRAPHY

NAS 8 97115 UNIV OF SOUTHERN CALIFORNIA 2864
 USC RTTC
 01/30/1997 - 12/31/2000 FY01: \$167,075 Total: \$5,333,164
Prin. Invest.: G BEKEY
Tech. Officer: ARC/C CASTELLANO
CASE Category: 42 - ASTRONAUTICAL ENGR

NCC 2 1224 UNIV OF SOUTHERN CALIFORNIA 2865
 BIOLOGICAL ASPECTS OF COMPUTATION
 04/05/2001 - 02/28/2002 FY01: \$250,000 Total: \$250,000
Prin. Invest.: L ADLEMAN
Tech. Officer: ARC/T R GOVINDAN, ARC/S LAU
CASE Category: 22 - COMPUTER SCIENCE

NCC 2 1242 UNIV OF SOUTHERN CALIFORNIA 2866
 ROBUST SPEECH RECOGNITION USING DYNAMIC SYNAPSE NE URAL
 NETWORKS
 04/25/2001 - 02/28/2002 FY01: \$125,000 Total: \$125,000
Prin. Invest.: T W BERGER
Tech. Officer: ARC/L STONE, ARC/M SHAFTO
CASE Category: 22 - COMPUTER SCIENCE

NCC 2 5420 UNIV OF SOUTHERN CALIFORNIA 2867
 CARBON NANOTUBE MOLECULAR ELECTROINS
 02/09/2001 - 02/28/2002 FY01: \$94,999 Total: \$94,999
Prin. Invest.: C ZHOU
Tech. Officer: ARC/M MEYYAPPAN, ARC/H PARTRIDGE
CASE Category: 13 - PHYSICS

NCC 2 5454 UNIV OF SOUTHERN CALIFORNIA 2868
 MOLECULAR WIRES AND TRANSISTORS
 08/08/2001 - 07/31/2002 FY01: \$40,000 Total: \$40,000
Prin. Invest.: C ZHOU
Tech. Officer: ARC/M MEYYAPPAN, ARC/H PARRISAGE
CASE Category: 45 - ELECTRICAL ENGR

NCC 3 501 UNIV OF SOUTHERN CALIFORNIA 2869
 THE HIGH-LEWIS NUMBER DIFFUSIVE-THERMAL INSTABILITY IN
 PREMIXED GAS COMBUSTION & LOW TEMPERATURE HY
 09/05/1996 - 03/31/2001 FY01: -\$2,078 Total: \$457,329
Prin. Invest.: H G PEARLMAN, NONE
Tech. Officer: GRC/D W GRIFFIN
CASE Category: 46 - MECHANICAL ENGR

NCC 3 671 UNIV OF SOUTHERN CALIFORNIA 2870
 TRANSPORT AND CHEMICAL EFFECTS ON CONCURRENT AND O PPOSED-
 FLOW FLAME SPREAD AT MICROGRAVITY
 02/12/1999 - 01/03/2003 FY01: \$201,500 Total: \$486,500
Prin. Invest.: P D RONNEY
Tech. Officer: GRC/S A GOKOGLU
CASE Category: 49 - ENGINEERING, OTHER

NCC 3 678 UNIV OF SOUTHERN CALIFORNIA 2871
 QUANTITATIVE STUDIE SON THE PROPAGATION AND EXTINC TION OF
 NEAR-LIMIT FLAMES UNDER NORMAL AND MICROG
 03/01/1999 - 11/29/2002 FY01: \$95,000 Total: \$300,000
Prin. Invest.: F N EGOLFOPOLUOS
Tech. Officer: GRC/K R SACKSTEDER
CASE Category: 49 - ENGINEERING, OTHER

NCC 3 827 UNIV OF SOUTHERN CALIFORNIA 2872
 ACOUSTIC BUBBLE REMOVAL FROM BOILING SURFACES AND ITS OPTI-
 MIZATION
 09/29/2000 - 11/30/2003 FY01: \$80,249 Total: \$80,249
Prin. Invest.: K OHSAKA
Tech. Officer: GRC/M M HASAN
CASE Category: 49 - ENGINEERING, OTHER

NCC 3 834 UNIV OF SOUTHERN CALIFORNIA 2873
 DETAILED STUDIES ON THE STRUCTURE AND DYNAMICS OF REACTING
 DUSTY FLOWS AT NORMAL- AND MICRO-GRAVITY
 12/18/2000 - 10/31/2004 FY01: \$99,999 Total: \$99,999
Prin. Invest.: P N EGOLFPOULOS
Tech. Officer: GRC/K R SACKSTEDER
CASE Category: 49 - ENGINEERING, OTHER

NCC 3 841 UNIV OF SOUTHERN CALIFORNIA 2874
 HIGH PRESSURE TRANSPORT PROPERTIES OF FLUIDS: THE ORY AND
 DATA FROM LEVITATED DROPS AT COMBUSTION-R
 12/22/2000 - 11/30/2003 FY01: \$45,000 Total: \$45,000
Prin. Invest.: K OHSAKA
Tech. Officer: GRC/K R SACKSTEDER
CASE Category: 49 - ENGINEERING, OTHER

NCC 3 854 UNIV OF SOUTHERN CALIFORNIA 2875
 DETERMINATION OF COOL FLAME QUENCHING DISTANCES AT
 MICROGRAVITY
 01/24/2001 - 11/30/2004 FY01: \$47,467 Total: \$47,467
Prin. Invest.: H PEARLMAN
Tech. Officer: GRC/J E BROOKER
CASE Category: 49 - ENGINEERING, OTHER

NCC 3 871 UNIV OF SOUTHERN CALIFORNIA 2876
 THE HIGH-LEWIS NUMBER DIFFUSIVE-THERMAL INSTABILITY IN
 PREMIXED GAS COMBUSTION AND LOW TEMPERATURE
 03/01/2001 - 11/30/2004 FY01: \$109,485 Total: \$109,485
Prin. Invest.: H PEARLMAN
Tech. Officer: GRC/D L URBAN
CASE Category: 49 - ENGINEERING, OTHER

NSG 5108 UNIV OF SOUTHERN CALIFORNIA 2877
 ROCKET EXPERIMENTS TO MEASURE THE SOLAR SPECTRAL PROFILE &
 INTENSITY
 04/01/1976 - 10/31/2000 FY01: \$0 Total: \$3,316,267
Prin. Invest.: D L JUDGE, H S OGAWA
Tech. Officer: GSFC/L J EARLY, GSFC/R H PLESS
CASE Category: 13 - PHYSICS

COLORADO

NCC 2 5337 ADAMS STATE COLLEGE 2878
 ENHANCEMENT OF AMPHION
 07/23/1999 - 12/31/2000 FY01: -\$3,587 Total: \$46,457
Prin. Invest.: S ROACH
Tech. Officer: ARC/M R LOWRY, ARC/S LAU
CASE Category: 22 - COMPUTER SCIENCE

NAG 3 1970 COLORADO SCHOOL OF MINES 2879
 NMRI MEASUREMENTS & GRANULAR DYNAMICS SIMULATIONS OF
 SEGREGATION OF GRANULAR MIXTURES
 09/25/1996 - 10/31/1999 FY01: \$0 Total: \$478,034
Prin. Invest.: M NAKAGAWA, E FUKUSHIMA
Tech. Officer: GRC/B SINGH
CASE Category: 46 - MECHANICAL ENGR

NAG 5 9684 COLORADO SCHOOL OF MINES 2880
 LUNAR DATA ANALYSIS PROGRAM PROPOSAL: ECONOMIC EVALUATION
 OF POLAR REGIONS USING LUNAR PROSPECT
 06/29/2000 - 06/30/2002 FY01: \$32,000 Total: \$64,000
Prin. Invest.: M B DUKE
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 9 1207 COLORADO SCHOOL OF MINES 2881
 EXTRACTION OF VOLATILES FROM LUNAR AND MARTIAN REGOLITHS
 03/01/2000 - 02/28/2003 FY01: \$50,000 Total: \$229,997
Prin. Invest.: M B DUKE
Tech. Officer: JSC/D MCKAY
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 9 1364 COLORADO SCHOOL OF MINES 2882
 A NOVEL COLLOIDAL MICROFULIDES PLATFORM FOR SPACE BORNE
 MICRO TOTAL
 07/27/2001 - 09/30/2002 FY01: \$81,000 Total: \$81,000
Prin. Invest.: D W. M. MARR
Tech. Officer: JSC/D RISIN
CASE Category: 56 - MEDICL

NCC 3 659 COLORADO SCHOOL OF MINES 2883
 A FUNDAMENTAL STUDY OF THE COMBUSTION SYNTHESIS OF CERAMIC-
 METAL COMPOSITE MATERIALS UNDER MICROGRA
 01/05/1999 - 11/11/2002 FY01: \$118,750 Total: \$358,750
Prin. Invest.: D J MOORE
Tech. Officer: GRC/S A GOKOGLU
CASE Category: 49 - ENGINEERING, OTHER

NCCW 96 COLORADO SCHOOL OF MINES 2884
 THE CENTER FOR COMMERCIAL APPLICATIONS OF COMBUSTION IN SPACE
 05/01/1996 - 10/31/2001 FY01: \$0 Total: \$9,036,613
Prin. Invest.: F SCHOWENGERDT
Tech. Officer: MSFC/J R WEST
CASE Category: 49 - ENGINEERING, OTHER

NAG 1 2045 COLORADO STATE UNIV 2885
 LARGE EDDY SIMULATION OF CIRRUS CLOUDS
 04/02/1998 - 10/31/2001 FY01: \$0 Total: \$142,463
Prin. Invest.: W COTTON
Tech. Officer: LARC/D S MCDUGAL, LARC/J RAPER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 2063 COLORADO STATE UNIV 2886
 STUDIES OF ICE NUCLEATING AEROSOL PARTICLES IN ARCTIC CLOUD
 SYSTEMS
 05/19/1998 - 02/28/2001 FY01: -\$19,438 Total: \$214,468
Prin. Invest.: D C ROGERS, J P DEMOTT
Tech. Officer: LARC/D S MCDUGAL, LARC/J RAPER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 2081 COLORADO STATE UNIV 2887
 INTERACTIONS OF THE CLOUDY ARCTIC BOUNDARY LAYER WITH VARI-
 ABLE SURFACE CONDITIONS
 06/23/1998 - 04/30/2001 FY01: -\$1 Total: \$265,000
Prin. Invest.: D A RANDALL
Tech. Officer: LARC/D S MCDUGAL, LARC/J RAPER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 2247 COLORADO STATE UNIV 2888
 RETRIEVAL OF PROPERTIES OF HIGH CLOUDS FROM LITE DATA
 10/21/1999 - 09/30/2002 FY01: \$75,740 Total: \$218,143
Prin. Invest.: G STEPHENS
Tech. Officer: LARC/V DELNORE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 3 1801 COLORADO STATE UNIV 2889
 ADVANCED ELECTRIC PROPULSION RESEARCH
 01/23/1996 - 10/31/2001 FY01: \$45,028 Total: \$205,107
Prin. Invest.: P J WILBUR
Tech. Officer: GRC/V K RAWLIN
CASE Category: 13 - PHYSICS

NAG 5 4073 COLORADO STATE UNIV 2890
 CLIMATE SENSITIVITY OF THAW LAKE SYSTEMS ON THE AL
 03/17/1997 - 12/31/1999 FY01: \$10,199 Total: \$25,335
Prin. Invest.: D LISTON
Tech. Officer: GSFC/R H THOMAS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 4646 COLORADO STATE UNIV 2891
 TITLE: USING MULTI-SENSOR DATA TO MODEL FACTORS L IN GLOBAL
 ARID & SEMIARID LANDS
 06/17/1997 - 05/31/2002 FY01: \$0 Total: \$2,212,780
Prin. Invest.: D OJIMA
Tech. Officer: GSFC/G C GUTMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 4749 COLORADO STATE UNIV 2892
 ANALYSIS OF THE DIURNAL CYCLE OF PRECIPITATION AND RADIATIVE
 FORCING USING TRMM PRODUCTS
 06/26/1997 - 06/30/2000 FY01: -\$10 Total: \$357,524
Prin. Invest.: D RANDALL
Tech. Officer: GSFC/O THIELE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 4754 COLORADO STATE UNIV 2893
 VALIDATION STUDIES AND ALGORITHM REFINEMENT IN SUP
 06/17/1997 - 05/31/2000 FY01: -\$3,674 Total: \$528,295
Prin. Invest.: S A RUTLEDGE
Tech. Officer: GSFC/R A ALDER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 4983 COLORADO STATE UNIV 2894
 THE BIO-ATMOSPHERIC CYCLES OF NITROGEN AND CARBON: POLLUTION
 AND TERRESTRIAL ECOSYSTEMS
 08/29/1997 - 07/31/2000 FY01: -\$23 Total: \$82,477
Prin. Invest.: W PARTON
Tech. Officer: HQ/D WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6228 COLORADO STATE UNIV 2895
 VEMAP PHASE II
 09/11/1997 - 06/30/2001 FY01: \$0 Total: \$377,912
Prin. Invest.: D OJIMA
Tech. Officer: GSFC/J RANSON
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6637 COLORADO STATE UNIV 2896
 ASSESSING THE IMPACT OF REMOTE SENSING DATA ON CLO UDINESS
 PREDICTION IN SHORT-TERM FORECASTS
 11/18/1997 - 04/30/2001 FY01: \$0 Total: \$544,049
Prin. Invest.: P L STEPHENS
Tech. Officer: GSFC/J C DODGE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7558 COLORADO STATE UNIV 2897
 SNOW HYDROLOGY-THE PARAMETERIZATION OF SUBGRID PRO CESSSES
 WITHIN APHYSICALLY BASED SNOW ENER
 07/02/1998 - 06/30/2001 FY01: \$0 Total: \$51,313
Prin. Invest.: K ELDER
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 7560 COLORADO STATE UNIV 2898
 A SNOW-EVOLUTION MODELING-SYSTEM FOR WEATHER,CLIMA TE,AND
 HYDROLOGIC APPLICATIONS
 06/29/1998 - 06/30/2001 FY01: \$0 Total: \$320,000
Prin. Invest.: G E LISTON
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 7717 COLORADO STATE UNIV 2899
 IMPROVING TRMM GV & FC GOALS USING POLARIMETRIC RA DAR ANAL-
 YSES W/IN-SITUGROUND-BASED AND AIRCRAFT P
 10/27/1998 - 10/31/2002 FY01: \$100,644 Total: \$306,488
Prin. Invest.: V N BRINGI
Tech. Officer: GSFC/O W THIELE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7719 COLORADO STATE UNIV 2900
 TOWARDS A MULTISENSOR APPROACH TO IMPROVE ON CURRE NT TRMM
 RETRIEVALS OF CLOUDS AND PRECIPITATION
 10/27/1998 - 10/31/2001 FY01: \$83,395 Total: \$257,201
Prin. Invest.: G L STEPHENS
Tech. Officer: GSFC/O W THIELE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7783 COLORADO STATE UNIV 2901
 MODELED AEROSOL OPTICAL PROPERTIES FROM MEASUREMEN
 T-BASED MIXTURES OF CHEMICAL SPECIES-ASSESSING TH
 11/03/1998 - 12/31/2001 FY01: \$0 Total: \$100,000
Prin. Invest.: S M KREIDENWEIS
Tech. Officer: GSFC/M MISHCHENKO
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7876 COLORADO STATE UNIV 2902
 TRMM PRECIPITATION RADAR AND MICROPHYSICS: INTERP RETATION
 ANDPRECIPITATION ESTIMATION
 11/30/1998 - 11/30/2000 FY01: \$0 Total: \$137,976
Prin. Invest.: V CHANDRASEKAR
Tech. Officer: GSFC/O W THIELE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 8705 COLORADO STATE UNIV 2903
 NET CARBON & ENERGY BALANCE OF SAVANNA ECOSYSTEMS AT EOS
 VALIDATION SITES IN SOUTHERN AFRICA
 07/21/1999 - 06/30/2000 FY01: \$0 Total: \$192,159
Prin. Invest.: N HANAN
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9308 **COLORADO STATE UNIV** **2904**
 FUNDING FOR THE CLOSEOUT OF "FREEZING CHARACTERIST ICS OF
 SOOT/SULFATE AEROSOLS IN RESPONSE TO NRA-
 03/28/2000 – 03/31/2002 FY01: \$57,000 Total: \$73,040
Prin. Invest.: D J DEMOTT
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 9642 **COLORADO STATE UNIV** **2905**
 ANALYSIS OF DATA FROM TRMM/LBA TO VALIDATE TRMM SATELLITE
 ALGORITHMS & MODELS
 06/19/2000 – 11/30/2001 FY01: \$262,311 Total: \$355,984
Prin. Invest.: S A RUTLEDGE
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 9647 **COLORADO STATE UNIV** **2906**
 USE OF TRMM DATA TO TEST AN IMPROVED PARAMETERIZA TION OF
 STRATIFORM PRECIPITATION
 06/20/2000 – 11/30/2001 FY01: \$261,000 Total: \$336,432
Prin. Invest.: D A RANDALL
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 9655 **COLORADO STATE UNIV** **2907**
 TRMM PRECIPITATION RADAR AND MICROPHYSICS: INTERP RETATION
 AND PRECIPITATION ESTIMATION
 06/09/2000 – 11/30/2001 FY01: \$136,000 Total: \$193,239
Prin. Invest.: V CHANDRASEKAR
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 9665 **COLORADO STATE UNIV** **2908**
 TRMM SOUNDING STUDIES
 06/06/2000 – 06/14/2002 FY01: \$109,000 Total: \$175,500
Prin. Invest.: R H JOHNSON
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 10076 **COLORADO STATE UNIV** **2909**
 TWO-BEAM SODIUM LIDAR OBSERVATION OF TEMPERATURE & WINDS &
 PASSIVE OPTICAL MEASUREMENT CLUSTER IN TH
 10/24/2000 – 04/30/2002 FY01: \$202,000 Total: \$202,000
Prin. Invest.: C SHE
Tech. Officer: GSFC/M MELLOTT
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10482 **COLORADO STATE UNIV** **2910**
 THE EFFECTS OF CLIMATE REGIME ON TRMM RETRIEVALS
 03/01/2001 – 05/31/2002 FY01: \$151,000 Total: \$151,000
Prin. Invest.: W K BERG
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 10593 **COLORADO STATE UNIV** **2911**
 AN INTERGRATED MULTI-SCALE INVESTIGATION OF GRASS- LAND
 MANAGEMENT: IMPLICATIONS FOR CARBON CYCLING
 03/22/2001 – 02/28/2002 FY01: \$115,866 Total: \$115,866
Prin. Invest.: R CONANT
Tech. Officer: GSFC/M WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 11010 **COLORADO STATE UNIV** **2912**
 OBSERVATIONAL, THEORETICAL, AND MODELING RESEARCH IN SUPPORT
 OF CAMEX
 06/06/2001 – 06/14/2002 FY01: \$85,000 Total: \$85,000
Prin. Invest.: W H SCHUBERT
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 11018 **COLORADO STATE UNIV** **2913**
 VALIDATE SATELLITE MEASUREMENTS OF UV RADIATION BY TOMS
 06/21/2001 – 06/14/2002 FY01: \$69,728 Total: \$69,728
Prin. Invest.: J SLUSSER
Tech. Officer: GSFC/J R HERMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 11073 **COLORADO STATE UNIV** **2914**
 LAND-USE CHANGE IN TEMPERATE EAST ASIA: LAND COVER CHANGES
 IMPACTS ON CARBON FLUXES AND LAND PRODUCT
 07/19/2001 – 08/14/2002 FY01: \$43,225 Total: \$43,225
Prin. Invest.: D OJIMA
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 11109 **COLORADO STATE UNIV** **2915**
 VALIDATION AND ENHANCEMENT OF AMSR-E CLOUD AND PRECIPITATION
 PRODUCTS AQUA-0070-0047
 07/13/2001 – 08/31/2002 FY01: \$56,819 Total: \$56,819
Prin. Invest.: G L STEPHENS
Tech. Officer: GSFC/D STARR
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 11140 **COLORADO STATE UNIV** **2916**
 ENERGY & WATER CYCLES WITHIN HURRICANES DETERMINED FROM
 HIGH-RESOLUTIONS SIMULATIONS
 08/08/2001 – 08/14/2002 FY01: \$44,999 Total: \$44,999
Prin. Invest.: M T MONTGOMERY
Tech. Officer: GSFC/A J NEGRI
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 11189 **COLORADO STATE UNIV** **2917**
 THE EXTENSION OF THE TRMM MICROWAVE RAINFALL AND V ERTICAL
 STRUCTUREALGORITHM TO OTHER RADIOMET
 08/07/2001 – 08/14/2002 FY01: \$313,617 Total: \$313,617
Prin. Invest.: C D KUMMEROW
Tech. Officer: GSFC/R L LAWRENCE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 11280 **COLORADO STATE UNIV** **2918**
 MARS SOIL MECHANICS INVESTIGATION
 08/20/2001 – 08/31/2002 FY01: \$59,200 Total: \$59,200
Prin. Invest.: J NELSON
Tech. Officer: GSFC/J BOYCE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 8 1511 **COLORADO STATE UNIV** **2919**
 COUPLING ATMOSPHERIC, ECOLOGIC, AND HYDROLOGIC PROCESSES IN
 A REGIONAL CLIMATE MODEL
 03/05/1998 – 03/01/2001 FY01: \$0 Total: \$348,133
Prin. Invest.: R A PIELKE, G E LISTON
Tech. Officer: MSFC/J ARNOLD
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 8 1801 **COLORADO STATE UNIV** **2920**
 MINI-MAGNETOSPHERIC PLASMA PROPULSION FOR PLANT-ETARY
 EXPLORATION
 04/25/2001 - 03/15/2004 FY01: \$101,101 Total: \$101,101
Prin. Invest.: P J WILBUR
Tech. Officer: GRC/V K RAWLIN
CASE Category: 13 - PHYSICS

NAG10 234 **COLORADO STATE UNIV** **2921**
 GRAVITY INDUCED CHANGES IN GENE EXPRESSION
 09/22/1997 - 12/31/2000 FY01: \$0 Total: \$353,340
Prin. Invest.: A N REDDY
Tech. Officer: KSC/W M KNOTT
CASE Category: 59 - LIFE SCIENCE, OTHER

NAS 1 98125 **COLORADO STATE UNIV** **2922**
 CLOUDS AND THE EARTH'S ENERGY SYSTEM (CERES) SCIENTIFIC INVESTIGATION
 10/28/1998 - 10/31/2001 FY01: \$355,370 Total: \$694,407
Prin. Invest.: D A
Tech. Officer: LARC/B A WIELICKI
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAS 1 99103 **COLORADO STATE UNIV** **2923**
 ALGORITHM AND INSTRUMENT SUPPORT ACTIVITIES FOR PICASSO-CENA
 05/17/1999 - 05/16/2002 FY01: \$70,000 Total: \$133,250
Prin. Invest.: G L STEPHENS, C PLATT
Tech. Officer: LARC/G GIBSON
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAS 5 99237 **COLORADO STATE UNIV** **2924**
 CLOUDSAT MISSION AS A PART OF EARTH SYSTEM SCIENCE PATHFINDER (ESSP) PROJECT.
 12/17/1999 - 03/31/2005 FY01: \$907,216 Total: \$1,126,327
Prin. Invest.: G STEPHENS
Tech. Officer: GSFC/D LEWIS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAS 8 97082 **COLORADO STATE UNIV** **2925**
 A STUDY OF THE ROLE OF CLOUDS IN THE RELATIONSHIP BETWEEN LAND USE/LAND COVER AND THE CLIMATE
 11/21/1996 - 03/20/2001 FY01: \$0 Total: \$172,624
Prin. Invest.: S Q KIDDER
Tech. Officer: MSFC/T MILLER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 2 1099 **COLORADO STATE UNIV** **2926**
 AN EXTENDED ANALYSIS OF SCIENCE OUTREACH PROGRAMS IN THE SPACE LIFE SCIENCES IMPLEMENTED NASA IN PAR
 03/16/1999 - 06/30/2002 FY01: \$472,308 Total: \$1,881,516
Prin. Invest.: G R COULTER
Tech. Officer: ARC/S POTTER, ARC/M M AVERNER
CASE Category: 59 - LIFE SCIENCE, OTHER

NCC 2 1268 **COLORADO STATE UNIV** **2927**
 NASA WORKSHOP: WHEN ECOLOGIES COLLIDE? PLANETARY PROTECTION ISSUES IN THE HUMAN EXPLORATION OF MARS
 05/31/2001 - 02/28/2002 FY01: \$53,050 Total: \$53,050
Prin. Invest.: M CRISWELL
Tech. Officer: ARC/D F BLAKE, ARC/M L FONDA
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NCC 5 284 **COLORADO STATE UNIV** **2928**
 SPATIAL INTEGRATION OF REGIONAL CARBON BALANCE IN AMAZONIA
 06/25/1998 - 12/31/2001 FY01: \$355,497 Total: \$961,362
Prin. Invest.: A DENNING
Tech. Officer: GSFC/D W DEERING
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 5 288 **COLORADO STATE UNIV** **2929**
 JOINT RESEARCH STUDIES ON EARTH-ATMOSPHERIC PROBLEMS
 06/05/1998 - 03/31/2002 FY01: \$310,000 Total: \$992,434
Prin. Invest.: G L STEPHENS
Tech. Officer: GSFC/A J NEGRI
CASE Category: 31 - ATMOSPHERIC SCIENCE

NGT 5 30182 **COLORADO STATE UNIV** **2930**
 THE EFFECTS OF REMOTELY SENSED DATA ON MODELED LAND SURFACE-ATMOSPHERE INTERACTIONS: CONSEQUENCES
 08/13/1999 - 08/31/2000 FY01: \$0 Total: \$22,000
Prin. Invest.: A DENNING
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30218 **COLORADO STATE UNIV** **2931**
 LIGHTNING & RADAR OBSERVATIONS FROM GROUND-BASED & SPACEBORNE PLATFORMS: APPLICATIONS FOR TRMM
 08/24/1999 - 08/31/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: S A RUTLEDGE
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30344 **COLORADO STATE UNIV** **2932**
 THE RESPONSE OF THE NORTH AMERICAN MONSOON TO BOUNDARY AND REGIONAL FORCING MECHANISMS AS SIMULATED
 08/21/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: R PIELKE
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30421 **COLORADO STATE UNIV** **2933**
 SPACEBORNE OBSERVATIONS OF PRECIPITATION USING NAS A/TRMM AND GPM MISSION (STUDENT: KONRAD GOJARA)
 09/07/2001 - 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: V CHANDRAEKAR
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 50164 **COLORADO STATE UNIV** **2934**
 PROPERTIES OF COMET MANTLE DUST
 06/03/1999 - 06/30/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: J NELSON
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 9 49 **COLORADO STATE UNIV** **2935**
 EVALUATION OF GRAVITY-INDEPENDENT CONSTANT FORCE RESISTIVE EXERCISE UNIT
 06/29/2000 - 06/30/2001 FY01: \$0 Total: \$21,986
Prin. Invest.: S P JAMES
Tech. Officer: JSC/M C GREENNISEN
CASE Category: 46 - MECHANICAL ENGR

NAG 1 1927 UNIV OF COLORADO - BOULDER 2936
 REFLECTED GPS SIGNALS: THEORY AND EXPERIMENTS MY 1/2
 05/23/1997 - 05/31/2001 FY01: -\$1 Total: \$315,000
Prin. Invest.: 1 B BORN, P AXELRAD
Tech. Officer: LARC/S J KATZBERG, LARC/M J FEREBEE
CASE Category: 41 - AERONAUTICAL ENGR

NAG 1 2021 UNIV OF COLORADO - BOULDER 2937
 THEORETICAL INVESTIGATIONS OF CLOUDS AND AEROSOLS IN THE
 STRATOSPHERE AND UPPER TROPOSPHERE
 03/12/1998 - 03/11/2001 FY01: \$0 Total: \$326,000
Prin. Invest.: O B TOON
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 2047 UNIV OF COLORADO - BOULDER 2938
 APPLICATION OF LES TO UNDERSTANDING AND PARAMETER-
 IZING THE ARCTIC CLOUDY BOUNDARY LAYER
 04/02/1998 - 04/30/2001 FY01: \$0 Total: \$463,000
Prin. Invest.: J A CURRY
Tech. Officer: LARC/D J MCDUGAL, LARC/J RAPER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 2068 UNIV OF COLORADO - BOULDER 2939
 EXPERIMENTAL AND ANALYTICAL CHARACTERIZATION OF THE
 NONLINEAR BEHAVIOR OF MEMBRANE STRUCTURES
 05/11/1998 - 11/10/2000 FY01: \$0 Total: \$305,000
Prin. Invest.: M M MIKULAS, JR.
Tech. Officer: LARC/M S LAKE
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 1 2165 UNIV OF COLORADO - BOULDER 2940
 COMPARISONS OF THREE DIMENSIONAL NUMERICAL SIMULATIONS OF
 AMBIENT AND VOLOCANIC STRATOSPHERIC
 04/28/1999 - 05/31/2002 FY01: \$75,000 Total: \$225,000
Prin. Invest.: O B TOON
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 2187 UNIV OF COLORADO - BOULDER 2941
 IMPACT OF DESCENDING POLAR MESOSPHERIC NOX ON STRATOSPHERIC
 OZONE, NRA-98-OES-04
 04/27/1999 - 01/31/2002 FY01: \$42,000 Total: \$115,000
Prin. Invest.: C E RANDALL
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 2231 UNIV OF COLORADO - BOULDER 2942
 CIRRUS CLOUD RETRIEVAL ANALYSIS IN SUPPORT OF FIRSC SUBMILLI-
 METER-WAVE SPECTROMETER
 08/17/1999 - 05/31/2000 FY01: -\$2,287 Total: \$17,713
Prin. Invest.: K F EVANS
Tech. Officer: LARC/I G NOLT
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 01053 UNIV OF COLORADO - BOULDER 2943
 APPLICATION OF LES TO UNDERSTANDING AND PARAMET-
 ERIZING THE ARCTIC CLOUDY BOUNDARY LAYER
 03/30/2001 - 04/30/2002 FY01: \$155,000 Total: \$155,000
Prin. Invest.: J A CURRY, C A GELLILAN, R R REEDER
Tech. Officer: LARC/V E DELNORE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 01074 UNIV OF COLORADO - BOULDER 2944
 ADVANCED CROSS ENTERPRISE TECHNOLOGY DEVELOPMENT FOR NASA
 MISSIONS
 06/07/2001 - 01/31/2004 FY01: \$271,000 Total: \$271,000
Prin. Invest.: A BETY
Tech. Officer: LARC/C MOORE
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 1 01081 UNIV OF COLORADO - BOULDER 2945
 ESTIMATES OF NUMBER OF YEARS TO DETECT FUTURE CHANGES IN
 CLOUDS AND RADIATION
 05/15/2001 - 04/30/2003 FY01: \$65,414 Total: \$65,414
Prin. Invest.: E C
Tech. Officer: LARC/B A WIELICKI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 2 1124 UNIV OF COLORADO - BOULDER 2946
 MEASUREMENTS OF LONG LIVED TRACE GASES FROM COMMERCIAL
 AIRCRAFT PLATFORMS: INSTRUMENT DEVELOPMENT
 04/08/1997 - 02/28/2002 FY01: \$0 Total: \$730,343
Prin. Invest.: L M AVALLONE
Tech. Officer: ARC/E P CONDON, ARC/S S WEGENER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 2 1258 UNIV OF COLORADO - BOULDER 2947
 CONTRAIL PERSISTENCE & AIRCRAFT EXHAUST IMPACTS ON CIRRUS
 08/25/1998 - 04/30/2001 FY01: \$0 Total: \$170,254
Prin. Invest.: O B TOON
Tech. Officer: ARC/R P HIPSKIND, ARC/E P CONDON
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 2 1306 UNIV OF COLORADO - BOULDER 2948
 MEASUREMENTS OF CIO & CO2 FOR ACCENT
 03/17/1999 - 02/29/2000 FY01: -\$1,608 Total: \$23,395
Prin. Invest.: D W TOOHEY
Tech. Officer: ARC/E P CONDON, ARC/R S HIPSKIND
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 2 1307 UNIV OF COLORADO - BOULDER 2949
 IN SITU MEASUREMENTS OF HALOGEN OXIDES FROM THE DC-8 FOR
 SOLVE
 03/19/1999 - 03/31/2002 FY01: \$0 Total: \$174,603
Prin. Invest.: D W TOOHEY
Tech. Officer: ARC/E P CONDON, ARC/S R HIPSKIND
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 2 1315 UNIV OF COLORADO - BOULDER 2950
 THEORETICAL STUDIES OF STRATOSPHERIC CLOUDS & AEROSOLS IN
 SUPPORT OF SOLVE
 04/01/1999 - 03/31/2002 FY01: \$40,000 Total: \$100,400
Prin. Invest.: O B TOON
Tech. Officer: ARC/E P CONDON, ARC/R S HIPSKIND
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 2 1445 UNIV OF COLORADO - BOULDER 2951
 APPLICATION OF AEROSONDE, CLUSTERS TO EVALUATING THE MESO-
 SCALE VARIABILITY IN TROPICAL STORMS
 09/28/2000 - 03/14/2001 FY01: \$0 Total: \$90,000
Prin. Invest.: P J WEBSTER
Tech. Officer: ARC/S S WEGENER, ARC/R S HIPSKIND
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 2 1506 UNIV OF COLORADO - BOULDER 2952
 APPLICATIONS OF THE AEROSOL TO CAMEX-4
 07/17/2001 - 06/30/2002 FY01: \$566,807 Total: \$566,807
Prin. Invest.: G J HOLLAND
Tech. Officer: ARC/C P SCOFIELD, ARC/R S HIPSKIND
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 3 1846 UNIV OF COLORADO - BOULDER 2953
 STRUCTURE HYDRODYNAMICS AND PHASE TRANSITIONS OF F REELY
 SUSPENDED LIQUID CRYSTALS
 05/02/1996 - 05/01/2001 FY01: \$0 Total: \$435,000
Prin. Invest.: N A CLARK
Tech. Officer: GRC/J S LING, GRC/B S SINGH
CASE Category: 13 - PHYSICS

NAG 3 1848 UNIV OF COLORADO - BOULDER 2954
 WAVES IN RADIAL GRAVITY USING MAGNETIC FLUID
 06/25/1996 - 06/24/2001 FY01: \$0 Total: \$340,000
Prin. Invest.: D R OHLSEN, J E HART, P D WEIDMAN
Tech. Officer: GRC/N R HALL
CASE Category: 11 - ASTRONOMY

NAG 3 1850 UNIV OF COLORADO - BOULDER 2955
 CELL AND PARTICLE INTERACTIONS AND AGGREGATION DURING ELECTROPHORETIC MOTION
 05/02/1996 - 08/31/2000 FY01: \$0 Total: \$300,000
Prin. Invest.: R H DAVIS
Tech. Officer: GRC/J S LING, GRC/B S SINGH
CASE Category: 13 - PHYSICS

NAG 3 2116 UNIV OF COLORADO - BOULDER 2956
 THERMOCAPILLARY-INDUCED PHASE SEPARATION OF DISPERSED SYSTEMS WITH COALESCENCE
 01/28/1998 - 12/31/2001 FY01: \$71,250 Total: \$281,250
Prin. Invest.: R H DAVIS
Tech. Officer: GRC/B S SINGH
CASE Category: 43 - CHEMICAL ENGR

NAG 3 2136 UNIV OF COLORADO - BOULDER 2957
 DUSTY PLASMA DYNAMICS NEAR SURFACES IN SPACE. DUSTY PLASMA DYNAMICS NEAR SURFACES IN SPACE.
 03/05/1998 - 01/05/2002 FY01: \$95,000 Total: \$355,000
Prin. Invest.: J E COLWELL, S ROBERTSON, M HORANYI
Tech. Officer: GRC/H K NAHRA
CASE Category: 13 - PHYSICS

NAG 3 2220 UNIV OF COLORADO - BOULDER 2958
 COMBUSTION OF METALS IN REDUCED-GRAVITY AND EXTRATERRESTRIAL ENVIRONMENTS
 12/29/1998 - 11/11/2002 FY01: \$113,875 Total: \$303,001
Prin. Invest.: M C BRANCH
Tech. Officer: GRC/R FRIEDMAN
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2267 UNIV OF COLORADO - BOULDER 2959
 COLLISIONS INTO DUST EXPERIMENT II COLLISIONS INTO DUST EXPERIMENT II
 05/14/1999 - 04/30/2002 FY01: \$41,759 Total: \$113,579
Prin. Invest.: J E COLWELL
Tech. Officer: GRC/B J MOTIL
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2400 UNIV OF COLORADO - BOULDER 2960
 PHYSICS OF REGOLITH IMPACTS IN MICROGRAVITY EXPERIMENT (PRIME)
 04/19/2000 - 11/30/2003 FY01: \$85,500 Total: \$135,500
Prin. Invest.: J E COLWELL
Tech. Officer: GRC/B J MOTIL
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2402 UNIV OF COLORADO - BOULDER 2961
 STRATIFIED TAYLOR-COUETTE FLOW WITH RADIAL BUOYANCY
 04/19/2000 - 11/30/2003 FY01: \$95,000 Total: \$125,000
Prin. Invest.: J E HART
Tech. Officer: GRC/F P CHIARAMONTE
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2457 UNIV OF COLORADO - BOULDER 2962
 STRUCTURE AND DYNAMICS OF FREELY SUSPENDED LIQUID CRYSTALS
 06/07/2000 - 11/30/2003 FY01: \$113,408 Total: \$190,153
Prin. Invest.: N A CLARK
Tech. Officer: GRC/F P CHIARAMONTE
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2587 UNIV OF COLORADO - BOULDER 2963
 MULTI-BEAM ANTENNA ARRAYS FOR SATELLITE COMMUNICATIONS
 04/04/2001 - 12/31/2001 FY01: \$100,000 Total: \$100,000
Prin. Invest.: Z POPOVIC
Tech. Officer: GRC/R Q LEE
CASE Category: 45 - ELECTRICAL ENGR

NAG 3 2643 UNIV OF COLORADO - BOULDER 2964
 VIRTUAL MISSION OPERATIONS USING INTERNET PROTOCOLS
 08/23/2001 - 07/31/2004 FY01: \$38,000 Total: \$38,000
Prin. Invest.: E HANSEN
Tech. Officer: GRC/D CAREK
CASE Category: 22 - COMPUTER SCIENCE

NAG 3 2651 UNIV OF COLORADO - BOULDER 2965
 NEW MATERIALS FOR PROTON-CONDUCTING MEMBRANES NEW MATERIALS FOR PROTON-CONDUCTING MEMBRANES
 09/27/2001 - 08/31/2002 FY01: \$20,000 Total: \$20,000
Prin. Invest.: J MICHL
Tech. Officer: GRC/P L LOYSELLE
CASE Category: 12 - CHEMISTRY

NAG 5 1853 UNIV OF COLORADO - BOULDER 2966
 GODDARD HIGH RESOLUTION SPECTROGRAPH (GHR) INCLUDING ACTIVITIES AS A GHR GUARANTEED TIME OBSERV.
 01/02/1992 - 11/14/1999 FY01: -\$226 Total: \$2,320,726
Prin. Invest.: J C BRANDT
Tech. Officer: GSFC/A SMITH
CASE Category: 11 - ASTRONOMY

NAG 5 2256 UNIV OF COLORADO - BOULDER 2967
 GLOBAL-SCALE TURBULENT SOLAR CONVECTION COUPLED TO ROTATION AND MAGNETIC FIELDS
 04/27/1993 - 12/31/2000 FY01: \$0 Total: \$1,405,000
Prin. Invest.: J TOOMRE
Tech. Officer: GSFC/T J BIRMINGHAM, GSFC/J D BOHLIN
CASE Category: 13 - PHYSICS

NAG 5 2259 UNIV OF COLORADO - BOULDER 2968
 CONTEMPORANEOUS EUVE AND GHRS OBSERVATIONS OF THE OUTER
 ATMOSPHERIC STRUCTURE OF RS CVN
 04/30/1993 - 09/30/1999 FY01: \$0 Total: \$144,037
Prin. Invest.: A BROWN
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 3143 UNIV OF COLORADO - BOULDER 2969
 TEMPORAL VARIATIONS OF THE GEOPOTENTIAL
 11/09/1995 - 11/14/1999 FY01: -\$211 Total: \$224,789
Prin. Invest.: J WAHR
Tech. Officer: GSFC/P T TAYLOR
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 3224 UNIV OF COLORADO - BOULDER 2970
 X-RAY EMISSION FROM PRE-MAIN SEQUENCE STARS-TEST- ING THE
 SOLAR ANALOGY
 05/07/1996 - 12/31/2000 FY01: \$0 Total: \$338,976
Prin. Invest.: S L SKINNER
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 3225 UNIV OF COLORADO - BOULDER 2971
 SPECTRAL AND TEMPORAL PROPERTIES OF BLACK HOLE CANDIDATES
 05/07/1996 - 08/31/2001 FY01: \$0 Total: \$328,000
Prin. Invest.: M A NOWAK
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 3226 UNIV OF COLORADO - BOULDER 2972
 THE FUNDAMENTAL PHYSICAL PROCESSES PRODUCING AND CONTROL-
 LING STELLAR CORONAL/TRANSITION
 05/07/1996 - 04/30/2002 FY01: \$0 Total: \$553,000
Prin. Invest.: T A AYRES
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 3394 UNIV OF COLORADO - BOULDER 2973
 CHARACTERIZING AND QUANTIFYING THE X-RAY VARIABLE SKY
 09/06/1996 - 09/14/2002 FY01: \$0 Total: \$205,188
Prin. Invest.: G S STRINGFELLOW
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 3437 UNIV OF COLORADO - BOULDER 2974
 LAND AND LAND-USE CHANGE IN THE CLIMATE SENSITIVE HIGH PLAINS:
 AN AUTOMATED APPROACH WITH LANDSAT
 10/07/1996 - 12/31/2001 FY01: \$51,685 Total: \$863,197
Prin. Invest.: A GOETZ
Tech. Officer: GSFC/D L WILLIAMS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 3438 UNIV OF COLORADO - BOULDER 2975
 ENHANCED ANTARCTIC RESEARCH WITH LANDSAT: ICE SHEET
 DYNAMICS, HISTORY AND CARTOGRAPHY
 10/07/1996 - 06/30/2002 FY01: \$16,978 Total: \$263,523
Prin. Invest.: T SCAMBOS
Tech. Officer: GSFC/D L WILLIAMS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 3763 UNIV OF COLORADO - BOULDER 2976
 REMOTE SENSING OF PLANETARY SURFACES
 02/21/1997 - 01/31/2001 FY01: \$0 Total: \$215,823
Prin. Invest.: B M JAKOSKY
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 3794 UNIV OF COLORADO - BOULDER 2977
 LIQUID CRYSTAL FOCAL-PLANE SHUTTERS
 03/25/1997 - 07/31/2002 FY01: \$0 Total: \$58,941
Prin. Invest.: P T STOCKE
Tech. Officer: GSFC/H HASAN
CASE Category: 11 - ASTRONOMY

NAG 5 3847 UNIV OF COLORADO - BOULDER 2978
 MAPPING RICE PRODUCTION IN CHINA WITH AVHRR IMAGER
 01/30/1997 - 11/14/2000 FY01: -\$2,186 Total: \$327,985
Prin. Invest.: W EMERY
Tech. Officer: GSFC/D J KAHLE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 3949 UNIV OF COLORADO - BOULDER 2979
 LOWER IONOSPHERE THERMOSPHERE EXPLORER
 02/21/1997 - 02/14/2001 FY01: \$0 Total: \$199,777
Prin. Invest.: D C SOLOMON
Tech. Officer: GSFC/R HOWARD
CASE Category: 13 - PHYSICS

NAG 5 3967 UNIV OF COLORADO - BOULDER 2980
 INTEGRATED ANALYSIS OF COLUMELLA CELL STRUCTURE AN
 03/03/1997 - 02/28/2002 FY01: \$0 Total: \$499,236
Prin. Invest.: A STAEHELIN
Tech. Officer: GSFC/M AVERNER
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 5 3997 UNIV OF COLORADO - BOULDER 2981
 WAVELET-BASED INTERPOLATION AND REPRESENTATION OF SPACE-
 CRAFT MISSION DATA
 03/13/1997 - 05/31/2000 FY01: -\$1,864 Total: \$188,136
Prin. Invest.: M M LIGHTNER
Tech. Officer: GSFC/J BREDEKAMP
CASE Category: 22 - COMPUTER SCIENCE

NAG 5 4061 UNIV OF COLORADO - BOULDER 2982
 WARPING AND PRECESSION OF ACCRETION DISKS IN XRAY
 03/18/1997 - 03/31/2001 FY01: \$0 Total: \$271,500
Prin. Invest.: M C BEGELMAN
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 4063 UNIV OF COLORADO - BOULDER 2983
 ASTROPHYSICS AT THE DISK-HALO INTERFACE
 03/18/1997 - 03/31/2002 FY01: \$0 Total: \$293,400
Prin. Invest.: M J SHULL
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 4095 UNIV OF COLORADO - BOULDER 2984
 EVENT RATE FOR LISA GRAVITATIONAL WAVE SIGNALS FRO BLACK HOLE
 COALESCENCES
 03/12/1997 - 03/31/2002 FY01: \$46,000 Total: \$192,500
Prin. Invest.: D L BENDER
Tech. Officer: GSFC/H HASAN
CASE Category: 11 - ASTRONOMY

NAG 5 4163 UNIV OF COLORADO - BOULDER 2985
 DYNAMICAL MODELS OF THE SOLAR SYSTEM FORMATION AND
 03/26/1997 - 02/28/2001 FY01: \$0 Total: \$161,900
Prin. Invest.: D R STEWART
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 4218 UNIV OF COLORADO - BOULDER 2986
 SEA ICE AND OCEAN PROCESSES IN BAFFIN BAY: A STUD DATA AND
 NUMERICAL MODELING
 04/15/1997 - 03/31/2000 FY01: \$0 Total: \$228,436
Prin. Invest.: D STEFFEN
Tech. Officer: GSFC/R H THOMAS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 4248 UNIV OF COLORADO - BOULDER 2987
 GREENLAND ICE SHEET CLIMATOLOGY AND SURFACE ENERGY GREEN-
 LAND CLIMATE NETWORK (GCNET)
 03/26/1997 - 03/31/2001 FY01: \$0 Total: \$853,239
Prin. Invest.: D STEFFEN
Tech. Officer: GSFC/R THOMAS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 4312 UNIV OF COLORADO - BOULDER 2988
 ORIGINS CONFERENCE-1997
 04/18/1997 - 12/31/2000 FY01: \$0 Total: \$68,473
Prin. Invest.: D M SHULL
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 - ASTRONOMY

NAG 5 4314 UNIV OF COLORADO - BOULDER 2989
 LABORATORY STUDIES OF LOW TEMPERATURE RATE COEFFIC CHEM-
 ISTRY OF THE OUTER PLANETS
 04/16/1997 - 12/31/1999 FY01: -\$157 Total: \$404,441
Prin. Invest.: D R LEONE
Tech. Officer: GSFC/D BOGAN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 4343 UNIV OF COLORADO - BOULDER 2990
 DUST PLASMA INTERACTION
 04/17/1997 - 05/14/2001 FY01: \$0 Total: \$236,500
Prin. Invest.: D HORANYI
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 - PHYSICS

NAG 5 4440 UNIV OF COLORADO - BOULDER 2991
 RADARSAT ANTARACTIC MAPPING PROJECT
 05/13/1997 - 06/30/2002 FY01: \$11,404 Total: \$50,939
Prin. Invest.: R G BARRY
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 4446 UNIV OF COLORADO - BOULDER 2992
 THE DIURNAL CYCLE OF CONVECTION AND ITS INTERACTIO CIRCULATION
 04/28/1997 - 06/30/2000 FY01: \$0 Total: \$100,000
Prin. Invest.: D L SALBY
Tech. Officer: GSFC/R A SCHIFFER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 4467 UNIV OF COLORADO - BOULDER 2993
 NATURAL OSCILLATIONS OF THE THERMOSPHERE-IONOSPHER
 05/27/1997 - 04/30/2002 FY01: \$0 Total: \$271,054
Prin. Invest.: P FORBES
Tech. Officer: GSFC/M MELLOTT
CASE Category: 13 - PHYSICS

NAG 5 4506 UNIV OF COLORADO - BOULDER 2994
 PROPOSAL FOR COLLABORATION ON THE DEVELOPMENT AND AMSR
 SNOW WATER EQUIVALENT ALGORITHM
 05/07/1997 - 04/30/2001 FY01: \$0 Total: \$116,604
Prin. Invest.: R L ARMSTRONG
Tech. Officer: GSFC/A T CHANG
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 4526 UNIV OF COLORADO - BOULDER 2995
 CHARGED PARTICULATES IN THE POLAR MESOSPHERE/INSTR
 05/07/1997 - 11/30/2000 FY01: \$0 Total: \$228,000
Prin. Invest.: D ROBERTSON
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 - PHYSICS

NAG 5 4783 UNIV OF COLORADO - BOULDER 2996
 COORDINATED ASCA OBSERVATIONS OF CORONAL STRUCTURE CVN
 BINARY SIGMA CRB
 06/20/1997 - 06/30/2000 FY01: \$0 Total: \$17,800
Prin. Invest.: A BROWN
Tech. Officer: GSFC/N WHITE
CASE Category: 11 - ASTRONOMY

NAG 5 4804 UNIV OF COLORADO - BOULDER 2997
 A UNIFIED ANALYSIS OF NON-RADIATIVE HEATING AND WI
 07/30/1997 - 07/31/2002 FY01: \$108,500 Total: \$497,100
Prin. Invest.: G HARPER
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 4901 UNIV OF COLORADO - BOULDER 2998
 DOCUMENTING, UNDERSTANDING, AND PREDICTING THE AGG RADIATION
 FLUX FOR SHEBA
 06/19/1997 - 12/14/2000 FY01: \$0 Total: \$284,507
Prin. Invest.: D CURRY
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 4918 UNIV OF COLORADO - BOULDER 2999
 PENETRATIVE DYNAMICS OF THE SOLAR INTERIOR
 07/07/1997 - 11/30/2000 FY01: \$0 Total: \$261,809
Prin. Invest.: D JULIEN
Tech. Officer: GSFC/W G WAGNER
CASE Category: 13 - PHYSICS

NAG 5 5020 UNIV OF COLORADO - BOULDER 3000
 HIGH RESOLUTION X-RAY SPECTROSCOPY FROM SOUNDING ROCKETS
 03/11/1994 - 10/31/2001 FY01: \$0 Total: \$1,793,373
Prin. Invest.: W C CASH
Tech. Officer: GSFC/L J EARLY, GSFC/R H PLESS
CASE Category: 13 - PHYSICS

NAG 5 5027 UNIV OF COLORADO - BOULDER 3001
 ENERGY TRANSFER IN THE THERMOSPHERE AND MESOSPHERE FUNDING
 FOR A ONE-YEAR EFFORT IN BASIC RESEARCH
 03/03/1995 - 02/29/2004 FY01: \$0 Total: \$383,148
Prin. Invest.: S SOLOMON
Tech. Officer: GSFC/L EARLY
CASE Category: 13 - PHYSICS

NAG 5 5028 UNIV OF COLORADO - BOULDER 3002
 TIDES, PLANETARY WAVES, AND EDDY FORCING OF THE MEAN MLT
 CIRCULATION FOR THE TIMED SCIENCE...
 03/03/1995 - 03/05/2005 FY01: \$159,450 Total: \$835,576
Prin. Invest.: J FORBES
Tech. Officer: GSFC/L J EARLY, GSFC/R H PLESS
CASE Category: 13 - PHYSICS

NAG 5 5096 UNIV OF COLORADO - BOULDER 3003
 HIGH RESOLUTION SPECTROSCOPY IN THE FAR AND EXTREME
 ULTRAVIOLET
 12/02/1996 - 05/31/2003 FY01: \$529,078 Total: \$2,325,978
Prin. Invest.: E WILKINSON
Tech. Officer: GSFC/W JOHNSON
CASE Category: 13 - PHYSICS

NAG 5 5168 UNIV OF COLORADO - BOULDER 3004
 ANALYSIS OF TIME DEPENDENT FAULT INTERACTIONS AND CALIFORNIA
 07/17/1997 - 07/14/2001 FY01: \$0 Total: \$236,922
Prin. Invest.: J B RUNDLE
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 5274 UNIV OF COLORADO - BOULDER 3005
 FUNDING FOR PHASE 1 AWARD OF THE OWLS/MARE PROJECT UNES
 06/21/2000 - 04/13/2006 FY01: \$0 Total: \$370,000
Prin. Invest.: W EMERY
Tech. Officer: WFF/D L PIERCE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 5331 UNIV OF COLORADO - BOULDER 3006
 YEAR 1 OF A 3 YEAR GRANT IN BASIC SCIENTIFIC RESEARCH WITH U OF
 COLORADO FOR X-RAY
 04/18/2001 - 04/17/2004 FY01: \$100,000 Total: \$100,000
Prin. Invest.: D CASH
Tech. Officer: GSFC/J BRINTON
CASE Category: 13 - PHYSICS

NAG 5 6048 UNIV OF COLORADO - BOULDER 3007
 LATE STAGES OF ACCRETION OF URANUS AND NEPTUNE
 07/25/1997 - 06/30/2002 FY01: \$27,300 Total: \$164,470
Prin. Invest.: D STEWART
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 6051 UNIV OF COLORADO - BOULDER 3008
 ASSESSING FUTURE STABILITY OF US HIGH PLAINS LANDC PROCESS
 MODELING WITH LANDSAT IN SITU MODERN, AND
 07/28/1997 - 09/30/2001 FY01: \$0 Total: \$530,000
Prin. Invest.: D WEBB
Tech. Officer: GSFC/G C GUTMIN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6134 UNIV OF COLORADO - BOULDER 3009
 QUANTIFYING GRASSLAND-TO-WOODLAND TRANSITIONS AND CARBON
 AND NITROGEN DYNAMICS IN THE SOUTHWEST UNIT
 09/08/1997 - 01/31/2002 FY01: \$0 Total: \$548,190
Prin. Invest.: D A WESSMAN
Tech. Officer: GSFC/A C JANETOS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6147 UNIV OF COLORADO - BOULDER 3010
 VARIATIONS IN GPS TIME SERIES: A STUDY OF HYDROLO
 08/21/1997 - 08/31/2001 FY01: \$0 Total: \$225,526
Prin. Invest.: K M LARSON
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 6198 UNIV OF COLORADO - BOULDER 3011
 MODELING SUBSTORM DYNAMICS WITH A LOW-DIMENSIONAL E SPACE
 SYSTEM
 08/20/1997 - 12/31/2000 FY01: \$0 Total: \$152,068
Prin. Invest.: D DOXAS
Tech. Officer: GSFC/J BOHLIIN
CASE Category: 13 - PHYSICS

NAG 5 6337 UNIV OF COLORADO - BOULDER 3012
 X-RAY REPROCESSING IN ACTIVE GALACTIC NUCLEI
 10/30/1997 - 10/31/2001 FY01: \$108,900 Total: \$421,000
Prin. Invest.: M BEGELMAN
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 6462 UNIV OF COLORADO - BOULDER 3013
 VALIDATION STUDIES AND SENSITIVITY ANALYSES FOR RE TRIEVALS OF
 SNOW ALBEDO & SNOWCOVERED AREA FROM
 10/14/1997 - 03/31/2003 FY01: \$12,646 Total: \$288,279
Prin. Invest.: A NOLIN
Tech. Officer: GSFC/D STARR
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 6474 UNIV OF COLORADO - BOULDER 3014
 IMAGING INTERPLANETARY HYDROGEN WITH ULYSSES
 11/13/1997 - 10/31/2001 FY01: \$0 Total: \$120,000
Prin. Invest.: D PRYOR
Tech. Officer: GSFC/L LING
CASE Category: 11 - ASTRONOMY

NAG 5 6521 UNIV OF COLORADO - BOULDER 3015
 IMPROVING THE ACCURACY OF SATELLITE SEA SURFACE TEMPERATURE
 MEASUREMENTS BY EXPLICITLY ACCOUNTING F
 12/05/1997 - 09/30/2001 FY01: \$0 Total: \$526,369
Prin. Invest.: D EMERY
Tech. Officer: GSFC/J C DODGE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6627 UNIV OF COLORADO - BOULDER 3016
 CYCLIC AND LONG TERM TRENDS IN THE MESOSPHERE
 11/18/1997 - 11/30/2000 FY01: \$0 Total: \$236,548
Prin. Invest.: D E THOMAS
Tech. Officer: GSFC/C JACKMAN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 6629 UNIV OF COLORADO - BOULDER 3017
 STUDIES OF TROPICAL/MID-LATITUDE EXCHANGE USING UARS OBSERVATIONS
 11/18/1997 - 11/30/2001 FY01: \$0 Total: \$160,089
Prin. Invest.: D AVALLONE
Tech. Officer: GSFC/A DOUGLASS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 6636 UNIV OF COLORADO - BOULDER 3018
 PASSIVE MICROWAVE SNOW COVER ALGORITHM INTERCOMPARISON AND VALIDATION
 11/18/1997 - 10/31/2001 FY01: \$0 Total: \$307,162
Prin. Invest.: D L ARMSTRONG
Tech. Officer: GSFC/J C DODGE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6666 UNIV OF COLORADO - BOULDER 3019
 AVHRR-BASED POLAR PATHFINDER PRODUCTS - EVALUATION, ENHANCEMENT AND TRANSITION TO MODIS
 11/25/1997 - 11/30/2000 FY01: \$0 Total: \$292,968
Prin. Invest.: D FOWLER
Tech. Officer: GSFC/J C DODGE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6683 UNIV OF COLORADO - BOULDER 3020
 MODELING AND ANALYSIS OF UARS DATA IN THE STRATOSPHERE, MESOSPHERE, AND LOWER THERMOSPHERE
 12/08/1997 - 11/30/2001 FY01: \$0 Total: \$80,000
Prin. Invest.: S BAILEY
Tech. Officer: GSFC/C JACKMAN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 6758 UNIV OF COLORADO - BOULDER 3021
 LABORATORY STUDIES OF THE VISIBLE SPECTROSCOPY AND CHEMISTRY OF POLYCYCLIC AROMATIC HYDROCARBON (PAH)
 12/24/1997 - 12/31/2001 FY01: \$148,000 Total: \$494,662
Prin. Invest.: T P SNOW
Tech. Officer: GSFC/H HASAN
CASE Category: 11 - ASTRONOMY

NAG 5 6791 UNIV OF COLORADO - BOULDER 3022
 EXTRACTION OF TIDES AND PLANETARY WAVES FROM SATELLITE OBSERVATIONS
 02/17/1998 - 02/28/2002 FY01: \$0 Total: \$142,043
Prin. Invest.: S PALO
Tech. Officer: GSFC/M MELLOTT
CASE Category: 11 - ASTRONOMY

NAG 5 6820 UNIV OF COLORADO - BOULDER 3023
 ARTIC REGIONAL SEA-ICE ANOMALIES: A DIAGNOSIS OF INTERACTIONS OF ATMOSPHERE OCEAN INTERACTIONS AND LINKAGES TO CLIMATE
 01/09/1998 - 12/31/2001 FY01: \$0 Total: \$257,503
Prin. Invest.: A LYNCH
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6850 UNIV OF COLORADO - BOULDER 3024
 UARS - SOLSTICE
 01/12/1998 - 12/14/2001 FY01: \$0 Total: \$723,000
Prin. Invest.: D ROTTMAN
Tech. Officer: GSFC/C JACKMAN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 6875 UNIV OF COLORADO - BOULDER 3025
 ABSOLUTE GRAVITY/GPS MEASUREMENTS IN GREENLAND
 02/17/1998 - 12/31/2001 FY01: \$0 Total: \$57,574
Prin. Invest.: J WAHR
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6880 UNIV OF COLORADO - BOULDER 3026
 LASER INTERFEROMETRY TECHNIQUES FOR ACCURATE MEASUREMENT OF DISTANCE CHANGES BETWEEN WIDELY SEPARATED STARS
 02/17/1998 - 12/31/2000 FY01: \$0 Total: \$285,000
Prin. Invest.: R T STEBBINS
Tech. Officer: GSFC/P CRANE
CASE Category: 11 - ASTRONOMY

NAG 5 6900 UNIV OF COLORADO - BOULDER 3027
 INVESTIGATIONS OF CLOUDS AND AEROSOLS ON MARS AND VENUS
 01/21/1998 - 09/30/2001 FY01: \$78,800 Total: \$300,239
Prin. Invest.: O TOON
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 - ASTRONOMY

NAG 5 6901 UNIV OF COLORADO - BOULDER 3028
 CHROMOSPHERIC STRUCTURE AND WIND ACCELERATION IN ZETA AURORAL STARS
 02/04/1998 - 02/14/2001 FY01: -\$3,018 Total: \$36,982
Prin. Invest.: P BENNETT
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 6936 UNIV OF COLORADO - BOULDER 3029
 THE EVOLUTION AND X-RAY MORPHOLOGY OF DISTANT CLUSTERS OF GALAXIES
 02/04/1998 - 02/14/2002 FY01: \$0 Total: \$80,000
Prin. Invest.: J T STOCHE
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 6984 UNIV OF COLORADO - BOULDER 3030
 MEDIUM ENERGY PARTICLE PRECIPITATION EFFECTS ON THE MESOSPHERE AND LOWER THERMOSPHERE
 02/27/1998 - 03/31/2002 FY01: \$0 Total: \$229,484
Prin. Invest.: M CODRESCU
Tech. Officer: GSFC/M MELLOTT
CASE Category: 11 - ASTRONOMY

NAG 5 7021 UNIV OF COLORADO - BOULDER 3031
 SATELLITE REMOTE SENSING OF TROPICAL ICE CLOUDS AND PRECIPITATION FOR GCM VERIFICATION
 03/19/1998 - 12/31/2000 FY01: \$0 Total: \$97,981
Prin. Invest.: D EVANS
Tech. Officer: GSFC/K H BERGMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7088 UNIV OF COLORADO - BOULDER 3032
 MHD SIMULATIONS OF THE COUPLING BETWEEN IO AND JUPITER
 02/23/1998 - 03/31/2002 FY01: \$0 Total: \$199,346
Prin. Invest.: F BAGENAL
Tech. Officer: GSFC/D EVANS
CASE Category: 11 - ASTRONOMY

NAG 5 7128 UNIV OF COLORADO - BOULDER 3033
 PRECISION MEASUREMENT OF LARGE SCALE STRUCTURE-ATP
 03/24/1998 - 02/14/2002 FY01: \$0 Total: \$207,289
Prin. Invest.: A J HAMILTON
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 7223 UNIV OF COLORADO - BOULDER 3034
 A SEARCH FOR CORONAL EMISSION AT THE BOTTOM OF THE MAIN-SEQUENCE
 04/09/1998 - 04/14/2002 FY01: \$0 Total: \$9,920
Prin. Invest.: G S STRINGFELLOW
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 7262 UNIV OF COLORADO - BOULDER 3035
 THE INTERGALACTIC MEDIUM AND QSO ABSORPTION SYSTEMS (LTSA - NEW)
 04/28/1998 - 04/30/2002 FY01: \$114,300 Total: \$427,900
Prin. Invest.: J SHULL
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 7329 UNIV OF COLORADO - BOULDER 3036
 XTE PROPOSAL - RXTE OBSERVATIONS OF M87: INVESTIGATING THE NON-THERMAL CONTINUUM
 04/24/1998 - 04/14/2001 FY01: \$0 Total: \$8,000
Prin. Invest.: C REYNOLDS
Tech. Officer: GSFC/J SWANK
CASE Category: 11 - ASTRONOMY

NAG 5 7365 UNIV OF COLORADO - BOULDER 3037
 RELATIONSHIPS BETWEEN THE BULK-SKIN SEA SURFACE TEMPERATURE DIFFERENCE, WIND AND NET AIR-SEA HEAT FLUX
 04/29/1998 - 04/30/2001 FY01: \$35,000 Total: \$317,444
Prin. Invest.: W EMERY
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 33 - OCEANOGRAPHY

NAG 5 7398 UNIV OF COLORADO - BOULDER 3038
 XTE PROPOSAL - COORDINATED XTE OBSERVATIONS OF FLARES AND CORONAL STRUCTURE ON THE RS CVN BINARY
 05/13/1998 - 05/31/2000 FY01: -\$97 Total: \$5,968
Prin. Invest.: A BROWN
Tech. Officer: GSFC/J SWANK
CASE Category: 11 - ASTRONOMY

NAG 5 7402 UNIV OF COLORADO - BOULDER 3039
 INTEGRATED USE OF EXPERIMENTAL MODELING & REMOTE SENSING TECHNIQUES TO INVESTIGATE CARBON ISOTOPE
 05/15/1998 - 11/30/1999 FY01: -\$252 Total: \$201,285
Prin. Invest.: A TOWNSEND
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7449 UNIV OF COLORADO - BOULDER 3040
 RELATIONSHIPS BETWEEN INTERSTELLAR AND INTERPLANETARY GRAINS
 07/02/1998 - 06/30/2002 FY01: \$0 Total: \$83,500
Prin. Invest.: T P SNOW
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 7465 UNIV OF COLORADO - BOULDER 3041
 NARROW BAND IMAGING WITH HOLOGRAPHIC TELESCOPES
 11/25/1998 - 12/31/2001 FY01: \$82,000 Total: \$182,810
Prin. Invest.: D WILKINSON
Tech. Officer: GSFC/H HASAN
CASE Category: 11 - ASTRONOMY

NAG 5 7466 UNIV OF COLORADO - BOULDER 3042
 AEROSOL-CLOUD-CLIMATE INTERACTIONS
 05/28/1998 - 05/31/2000 FY01: \$0 Total: \$122,473
Prin. Invest.: K STEFFEN
Tech. Officer: GSFC/J ZWALLY
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7496 UNIV OF COLORADO - BOULDER 3043
 EVALUATION OF SNOW WATER EQUIVALENT ACROSS GRASSLAND AND REGIONS
 06/29/1998 - 01/31/2001 FY01: -\$48,187 Total: \$65,140
Prin. Invest.: A FREI
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 11 - ASTRONOMY

NAG 5 7541 UNIV OF COLORADO - BOULDER 3044
 THE USE OF CASES OBSERVATIONS TO ASSESS AND PARAMETERIZE THE IMPACT OF LAND-SURFACE HETEROGENEITY ON
 06/18/1998 - 08/31/2001 FY01: \$0 Total: \$100,351
Prin. Invest.: D YATES
Tech. Officer: GSFC/E ENGMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7543 UNIV OF COLORADO - BOULDER 3045
 INVESTIGATING DOWNSCALING METHODS AND EVALUATING CLIMATE MODELS FOR USE IN ESTIMATING REGIONAL WATER
 06/23/1998 - 07/31/2001 FY01: \$0 Total: \$270,000
Prin. Invest.: A FREI
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 7638 UNIV OF COLORADO - BOULDER 3046
 INTERFEROMETRIC TECHNIQUES FOR GRAVITATIONAL WAVE DETECTION IN SPACE
 12/08/1998 - 12/31/2001 FY01: \$94,000 Total: \$138,000
Prin. Invest.: D T STEBBINS
Tech. Officer: GSFC/H HASAN
CASE Category: 11 - ASTRONOMY

NAG 5 7652 UNIV OF COLORADO - BOULDER 3047
 AN INVESTIGATION OF THE EFFECT OF PARTICLE IONIZATION ON THE
 EARTH'S MIDDLE ATMOSPHERE AND ITS R
 08/25/1998 - 09/30/2001 FY01: \$0 Total: \$195,000
Prin. Invest.: D W RUSCH
Tech. Officer: HQ/J SHARBER
CASE Category: 11 - ASTRONOMY

NAG 5 7679 UNIV OF COLORADO - BOULDER 3048
 CLOUD STRUCTURE RECONSTRUCTION AND SHORTWAVE RADIATIVE
 TRANSFER MODELING FOR ARMYEAR 1 OF A 3 YEAR
 09/17/1998 - 02/28/2002 FY01: \$0 Total: \$143,000
Prin. Invest.: K EVANS
Tech. Officer: GSFC/W WISCOMBE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7703 UNIV OF COLORADO - BOULDER 3049
 FUNDING FOR TEMPORAL VARIATIONS OF THE GEOPOTENTIAL
 (SENH98-0102)
 09/23/1998 - 09/30/2001 FY01: \$48,000 Total: \$286,000
Prin. Invest.: J M WAHR
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 7723 UNIV OF COLORADO - BOULDER 3050
 THE DISK WIND MODEL OF THE BROAD LINE REGIONS IN ACTIVE GALAC-
 TIC NUCLEI AND CATAclysmic VARI
 09/23/1998 - 09/30/2002 FY01: \$90,630 Total: \$174,047
Prin. Invest.: M C BEGELMAN
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 7725 UNIV OF COLORADO - BOULDER 3051
 MODEL PREDICTIONS OF INTERACTIONS BETWEEN SOLAR AND ANTHRO-
 POGENIC PERTURBATIONS IN THE EARTH
 09/23/1998 - 09/30/2001 FY01: \$20,500 Total: \$62,000
Prin. Invest.: D RUSCH
Tech. Officer: GSFC/D EVANS
CASE Category: 11 - ASTRONOMY

NAG 5 7760 UNIV OF COLORADO - BOULDER 3052
 CHARACTERIZING THE SIMPLE COAST ICE STREAM SYSTEM USING
 SATELLITE IMAGES, IMPROVED TOPOGRAPHY, AND IN
 12/21/1998 - 12/31/2001 FY01: \$39,461 Total: \$119,876
Prin. Invest.: T A SCAMBOS
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7784 UNIV OF COLORADO - BOULDER 3053
 SOLAR MESOSPHERE EXPLORER MEASUREMENTS OF EL CHICHON
 AEROSOLS
 11/09/1998 - 10/31/2001 FY01: \$58,000 Total: \$173,850
Prin. Invest.: C E RANDALL
Tech. Officer: GSFC/M MISHCHENKO
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7838 UNIV OF COLORADO - BOULDER 3054
 STUDY OF ANOMALOUS VARIATION OF THE TOTAL SOLAR IR RADIANCE AT
 THE BEGINNING OF SOLAR CYCLE 23
 12/16/1998 - 12/14/2001 FY01: \$0 Total: \$125,020
Prin. Invest.: G DE TOMA
Tech. Officer: GSFC/J GURMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 7851 UNIV OF COLORADO - BOULDER 3055
 MULTIWAVELENGTH TESTING OF BROADBAND EUV GRATINGS
 11/30/1998 - 12/31/2000 FY01: \$0 Total: \$52,000
Prin. Invest.: D WILKINSON
Tech. Officer: GSFC/H HASAN
CASE Category: 11 - ASTRONOMY

NAG 5 7996 UNIV OF COLORADO - BOULDER 3056
 GLOBAL AND LOCAL HELIOSEISMIC STUDIES OF SOLAR CONVECTION-
 ZONE DYNAMICS USING SOI-MDI
 01/05/1999 - 12/31/2001 FY01: \$210,000 Total: \$685,000
Prin. Invest.: J TOOMRE
Tech. Officer: GSFC/J GURMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 8047 UNIV OF COLORADO - BOULDER 3057
 A COMPARATIVE ANALYSIS OF THE GALILEO-ERA IO TORUS &
 ATMOSPHERE
 01/15/1999 - 01/14/2001 FY01: \$0 Total: \$105,000
Prin. Invest.: N M SCHNEIDER
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 - ASTRONOMY

NAG 5 8096 UNIV OF COLORADO - BOULDER 3058
 ULTRAVIOLET STUDIES OF JUPITER'S HYDROCARBONS AND AEROSOLS
 FROM GALILEO
 01/29/1999 - 01/31/2002 FY01: \$0 Total: \$110,000
Prin. Invest.: D R PRYOR
Tech. Officer: GSFC/D BOGAN
CASE Category: 11 - ASTRONOMY

NAG 5 8108 UNIV OF COLORADO - BOULDER 3059
 THE YOUNGEST STARS - LTSA 98
 02/11/1999 - 02/14/2002 FY01: \$98,190 Total: \$295,256
Prin. Invest.: J BALLY
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8127 UNIV OF COLORADO - BOULDER 3060
 "INFRARED OPTICAL CONSTANTS OF PARTICLES IN THE LOWER STRATO-
 SPHERE AND UPPER TROPOSPHERE"
 02/04/1999 - 11/30/2001 FY01: \$105,052 Total: \$318,188
Prin. Invest.: M A TOLBERT
Tech. Officer: GSFC/M D KING
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 8133 UNIV OF COLORADO - BOULDER 3061
 GLOBAL MODELS OF SOLAR CONVECTION, ROTATION AND MAGNETIC
 ACTIVITY
 03/02/1999 - 04/30/2002 FY01: \$316,000 Total: \$896,788
Prin. Invest.: J TOOMRE
Tech. Officer: GSFC/J M GREBOWSKY
CASE Category: 11 - ASTRONOMY

NAG 5 8178 UNIV OF COLORADO - BOULDER 3062
 ULTRAVIOLET PHOTOMETRIC PARAMETERS OF THE ICY GALI LEAN
 SATELLITES AND THE MOON
 02/11/1999 - 02/14/2001 FY01: \$0 Total: \$64,800
Prin. Invest.: A HENDRIX
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 - ASTRONOMY

NAG 5 8236 UNIV OF COLORADO - BOULDER 3063
 SN1987A: THE BIRTH OF A SUPERNOVA REMNANT (ATP 98)
 02/25/1999 - 02/28/2001 FY01: \$200,750 Total: \$299,308
Prin. Invest.: R A MCCRAY
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8247 UNIV OF COLORADO - BOULDER 3064
 GGS CEPPAD SUPPLEMENT
 02/24/1999 - 01/31/2002 FY01: \$75,000 Total: \$276,000
Prin. Invest.: D BAKER
Tech. Officer: GSFC/R HOFFMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 8256 UNIV OF COLORADO - BOULDER 3065
 JOVIAN AURORAL CHEMISTRY
 02/11/1999 - 02/14/2002 FY01: \$12,000 Total: \$35,304
Prin. Invest.: W PRYOR
Tech. Officer: GSFC/D BOGAN
CASE Category: 11 - ASTRONOMY

NAG 5 8259 UNIV OF COLORADO - BOULDER 3066
 MULTISPECTRAL MAPPING OF THE MARTIAN POLAR ICE CAP S
 02/16/1999 - 02/28/2002 FY01: \$69,000 Total: \$217,000
Prin. Invest.: A W NOLIN
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8266 UNIV OF COLORADO - BOULDER 3067
 WAVE STRUCTURES AND VERTICAL COUPLING IN THE MARTI AN
 ATMOSPHERE
 02/24/1999 - 05/31/2002 FY01: \$44,000 Total: \$125,900
Prin. Invest.: J M FORBES
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8311 UNIV OF COLORADO - BOULDER 3068
 THE DIURNAL CYCLE OF CONVECTION AND ITS INTERACTIO N WITH THE
 LARGE SCALECIRCULATION
 03/12/1999 - 02/28/2002 FY01: \$116,977 Total: \$159,769
Prin. Invest.: M L SALBY
Tech. Officer: GSFC/J R CURRAN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 8320 UNIV OF COLORADO - BOULDER 3069
 INTEGRATING MICROWAVE AND HYPERSPECTRAL REMOTE SEN SING FOR
 ESTIMATING VEGETATION STRUCTURE AND BI
 04/06/1999 - 03/31/2002 FY01: \$48,552 Total: \$135,131
Prin. Invest.: G P ASNER
Tech. Officer: GSFC/D C WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8338 UNIV OF COLORADO - BOULDER 3070
 PHOTOMETRIC ANALYSIS OF THE JOVIAN RING SYSTEM AND MODELING
 OF RINGORIGIN AND EVOLUTION
 03/23/1999 - 04/30/2002 FY01: \$0 Total: \$122,874
Prin. Invest.: L W ESPOSITO
Prin. Invest.: NONE
Tech. Officer: GSFC/D BOGAN
CASE Category: 11 - ASTRONOMY

NAG 5 8362 UNIV OF COLORADO - BOULDER 3071
 THEORETICAL STUDIES OF MICROPHYSICAL MARINE BOUNDA RY-LAYER
 CLOUDS
 03/15/1999 - 03/14/2002 FY01: \$0 Total: \$105,532
Prin. Invest.: O B TOON
Tech. Officer: GSFC/M MISCHENKO
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 8399 UNIV OF COLORADO - BOULDER 3072
 POLAR PATHFINDER HDF-EOS PILOT PROJECT
 05/14/1999 - 05/14/2001 FY01: \$0 Total: \$92,006
Prin. Invest.: R L WEAVER
Tech. Officer: GSFC/K MOE
CASE Category: 22 - COMPUTER SCIENCE

NAG 5 8442 UNIV OF COLORADO - BOULDER 3073
 NONLINEAR MODELING OF HIGH-LATITUDE ELECTRODYNAMIC S AND
 MID-LATITUDE CURRENTS AND PREDICTION FROM R
 04/08/1999 - 04/30/2002 FY01: \$17,410 Total: \$50,418
Prin. Invest.: D N BAKER
Tech. Officer: GSFC/A J KLIMAS
CASE Category: 13 - PHYSICS

NAG 5 8538 UNIV OF COLORADO - BOULDER 3074
 SUPERCONDUCTING MIXERS FOR FAR INFRARED SPECTROSCO PY.
 08/11/1999 - 08/14/2002 FY01: \$0 Total: \$203,000
Prin. Invest.: A L BETZ
Tech. Officer: GSFC/F HERRERO
CASE Category: 11 - ASTRONOMY

NAG 5 8615 UNIV OF COLORADO - BOULDER 3075
 APPLICATION OF SATELLITE SAR IMAGERY IN MAPPING THE ACTIVE
 LAYER OF ARCTIC PERMAFROST
 06/14/1999 - 06/30/2001 FY01: \$0 Total: \$66,015
Prin. Invest.: T ZHANG
Tech. Officer: GSFC/P R HOUSER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8643 UNIV OF COLORADO - BOULDER 3076
 DISTRIBUTION & AUTOMATION TECHNOLOGY APPLICATION, "DATA"
 07/08/1999 - 06/30/2001 FY01: \$0 Total: \$568,626
Prin. Invest.: E R HANSEN
Tech. Officer: GSFC/G MUCKLOW
CASE Category: 22 - COMPUTER SCIENCE

NAG 5 8697 UNIV OF COLORADO - BOULDER 3077
 ALGORITHMS FOR AUTONOMOUS GPS ORBIT DETERMINATION & FORMA
 TION FLYING
 08/18/1999 - 08/14/2001 FY01: \$0 Total: \$146,780
Prin. Invest.: P AXELRAD
Tech. Officer: GSFC/J LEITNER
CASE Category: 41 - AERONAUTICAL ENGNR

NAG 5 8709 UNIV OF COLORADO - BOULDER 3078
 LAND USE IMPACTS ON SUBTROPICAL BIOGEOCHEMICAL CYC LES: AN INTEGRATED FIELD-PROCESSING MODELING-REMO
 07/29/1999 - 07/31/2002 FY01: \$100,566 Total: \$366,582
Prin. Invest.: G ASNER
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTALSCI, OTHER

NAG 5 8755 UNIV OF COLORADO - BOULDER 3079
 INTERCALIBRATION OF MESOSPHERE/LOWER THERMOSPHERE WINDS FROM SPACE-BASED & GROUND-BASED MEASUREMENTS
 08/12/1999 - 08/14/2002 FY01: \$16,000 Total: \$46,500
Prin. Invest.: J M FORBES
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8840 UNIV OF COLORADO - BOULDER 3080
 INTERNATIONAL RESEARCH WORKSHOP ON INTEGRATING GIS & ENVIRONMENTAL MODELING: PROBLEMS, PROSPECTS,&
 09/22/1999 - 09/30/2000 FY01: -\$2,560 Total: \$7,440
Prin. Invest.: B O PARKS
Tech. Officer: GSFC/B W MEESON
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 8910 UNIV OF COLORADO - BOULDER 3081
 SMALL-SCALE POLYGONS AND THE HISTORY OF GROUND ICE ON MARS
 12/29/1999 - 02/14/2001 FY01: \$0 Total: \$58,900
Prin. Invest.: M T MELLON
Tech. Officer: GSFC/J GRANT
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 8912 UNIV OF COLORADO - BOULDER 3082
 BOOK ON HYPERSPECTRAL IMAGING
 01/03/2000 - 05/31/2000 FY01: -\$3 Total: \$76,277
Prin. Invest.: A GOETZ
Tech. Officer: GSFC/D WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8923 UNIV OF COLORADO - BOULDER 3083
 LABORATORY STUDIES OF LOW TEMPERATURE RATE COEFFEC IENTS: THE ATMOSPHERICCHEMISTRY OF THE OUTER PLAN
 01/06/2000 - 12/31/2002 FY01: \$110,200 Total: \$214,008
Prin. Invest.: D R LEONE
Tech. Officer: GSFC/R B BEEBE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 8940 UNIV OF COLORADO - BOULDER 3084
 GALILEO MULTI-SPECTRAL ANALYSIS
 01/13/2000 - 09/30/2001 FY01: -\$19,359 Total: \$8,241
Prin. Invest.: K SIMMONS
Tech. Officer: GSFC/D BOGAN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9007 UNIV OF COLORADO - BOULDER 3085
 SATELLITE ATMOSPHERE & IO TORUS OBSERVATIONS
 01/28/2000 - 01/31/2002 FY01: \$99,500 Total: \$192,475
Prin. Invest.: N M SCHNEIDER
Tech. Officer: GSFC/T H MORGAN
CASE Category: 11 - ASTRONOMY

NAG 5 9010 UNIV OF COLORADO - BOULDER 3086
 FUV SPECTRA OF EVOLVED LATE-K AND M STARS: MASS LOSS REVISITED AND STELLAR ACTIVITY - FUSE
 02/02/2000 - 01/31/2002 FY01: \$0 Total: \$67,000
Prin. Invest.: G HARPER
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 9018 UNIV OF COLORADO - BOULDER 3087
 HIGH VELOCITY CLOUDS: ORIGIN & ENVIRONMENT - FUSE
 02/03/2000 - 01/31/2001 FY01: \$0 Total: \$24,540
Prin. Invest.: J SHULL
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 9026 UNIV OF COLORADO - BOULDER 3088
 SIMULATION & THEORETICAL MODELING OF OBSERVATIONS OF BIPOLAR STRUCTURE & LOW FREQUENCY WAVES IN THE
 02/03/2000 - 02/28/2002 FY01: \$87,918 Total: \$167,218
Prin. Invest.: M V GOLDMAN
Tech. Officer: GSFC/M MELLOTT
CASE Category: 11 - ASTRONOMY

NAG 5 9041 UNIV OF COLORADO - BOULDER 3089
 STELLAR WINDS, HYDROGEN WALLS, AND THE LOCAL INTER STELLAR MEDIUM -L TSA99
 02/22/2000 - 02/28/2002 FY01: \$178,996 Total: \$228,346
Prin. Invest.: B WOOD
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9043 UNIV OF COLORADO - BOULDER 3090
 CLIMATOLOGY OF ARCTIC CANADA
 02/22/2000 - 02/28/2002 FY01: \$37,822 Total: \$74,066
Prin. Invest.: K STEFFEN
Tech. Officer: GSFC/W ABDALATI
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9092 UNIV OF COLORADO - BOULDER 3091
 ION ETCHED HOLOGRAPHIC GRATINGS
 02/17/2000 - 01/31/2002 FY01: \$90,000 Total: \$165,360
Prin. Invest.: J GREEN
Tech. Officer: GSFC/P CRANE
CASE Category: 11 - ASTRONOMY

NAG 5 9114 UNIV OF COLORADO - BOULDER 3092
 PHASE-A AND BRIDGE PHASE STUDY OF STEREO/WAVES ACCOMMODATION
 03/01/2000 - 12/31/2001 FY01: \$30,000 Total: \$58,206
Prin. Invest.: R ERGUN
Tech. Officer: GSFC/M L KAISER
CASE Category: 11 - ASTRONOMY

NAG 5 9172 UNIV OF COLORADO - BOULDER 3093
 DUSTY PLASMAS IN PLANETARY MAGNETOSPHERES
 03/08/2000 - 02/28/2002 FY01: \$74,194 Total: \$148,094
Prin. Invest.: M HORANYI
Tech. Officer: GSFC/J SHARBER
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 9602 UNIV OF COLORADO - BOULDER 3110
 EVALUATION AND ERROR ASSESSMENT OF OPERATIONAL PASSIVE
 MICROWAVE ALGORITHMS
 05/17/2000 - 12/31/2001 FY01: \$0 Total: \$72,723
Prin. Invest.: J STROEVE
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9631 UNIV OF COLORADO - BOULDER 3111
 MULTI-DECADE OBSERVATIONS OF MARTIAN SURFACE VARIABILITY &
 SEDIMENT TRANSPORT: INTEGRATED ANALYSES
 05/26/2000 - 05/31/2002 FY01: \$60,000 Total: \$120,000
Prin. Invest.: S W LEE
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 9666 UNIV OF COLORADO - BOULDER 3112
 THE EFFECTS OF CLIMATE REGIME ON TRMM RETRIEVALS
 05/30/2000 - 11/14/2000 FY01: -\$46,667 Total: \$0
Prin. Invest.: W K BERG
Tech. Officer: GSFC/R J/L
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9692 UNIV OF COLORADO - BOULDER 3113
 AEROSOL-CLOUD-CLIMATE INTERACTIONS
 06/21/2000 - 08/31/2001 FY01: \$0 Total: \$122,990
Prin. Invest.: K STEFFEN
Tech. Officer: GSFC/J ZWALLY
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9694 UNIV OF COLORADO - BOULDER 3114
 ATMOSPHERIC MODELING AND INFRARED OBSERVATIONS OF A TRAN-
 SITING EXTRA-SOLAR PLANET
 06/27/2000 - 09/30/2002 FY01: \$40,469 Total: \$46,914
Prin. Invest.: L W ESPOSITO
Tech. Officer: GSFC/L D DEMING
CASE Category: 11 - ASTRONOMY

NAG 5 9722 UNIV OF COLORADO - BOULDER 3115
 GLOBAL LAND ICE MEASUREMENTS FROM SPACE
 06/22/2000 - 06/30/2002 FY01: \$89,997 Total: \$200,000
Prin. Invest.: G R SCHARFEN
Tech. Officer: GSFC/J DODGE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9727 UNIV OF COLORADO - BOULDER 3116
 COMPARISON OF QUICKSCAT AND GPS-DERIVED OCEAN SURFACE WINDS
 07/11/2000 - 07/31/2001 FY01: \$0 Total: \$74,683
Prin. Invest.: P AXELRAD
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 33 - OCEANOGRAPHY

NAG 5 9753 UNIV OF COLORADO - BOULDER 3117
 RETRIEVAL OF HYDROMETER SIZE DISTRIBUTIONS FROM TRMM FIELD
 CAMPAIGN PROFILER DOPPLER VELOCITY SPEC
 06/23/2000 - 06/30/2002 FY01: \$68,000 Total: \$111,156
Prin. Invest.: C R WILLIAMS
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9779 UNIV OF COLORADO - BOULDER 3118
 ORIGIN OF MAGNETIC LINEATIONS ON MARS
 07/10/2000 - 06/30/2002 FY01: \$50,000 Total: \$100,500
Prin. Invest.: R E GRIMM
Tech. Officer: GSFC/J BOYCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9861 UNIV OF COLORADO - BOULDER 3119
 IMPROVING THE SIMULATION OF SEA ICE LEAD CONDITION & TURBULENT
 FLUXES USING RGPS PRODUCTS & MERGED
 08/09/2000 - 07/31/2002 FY01: \$118,928 Total: \$234,058
Prin. Invest.: J MASLANIK
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10000 UNIV OF COLORADO - BOULDER 3120
 DYNAMICS OF PLANETESIMALS AND PLANETARY ACCRETION
 09/20/2000 - 08/31/2001 FY01: \$0 Total: \$70,000
Prin. Invest.: G STEWART
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 10083 UNIV OF COLORADO - BOULDER 3121
 CONTEMPORANEOUS XMM & HST OBSERVATIONS OF SEYFERT GALAXIES
 11/06/2000 - 11/14/2001 FY01: \$14,495 Total: \$14,495
Prin. Invest.: C S REYNOLDS
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10106 UNIV OF COLORADO - BOULDER 3122
 STUDENT NITRIC OXIDE EXPERIMENT (SNOE) - EXTENDED MISSION
 11/24/2000 - 12/31/2001 FY01: \$100,000 Total: \$100,000
Prin. Invest.: C A BARTH
Tech. Officer: GSFC/C P HOLMES
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10155 UNIV OF COLORADO - BOULDER 3123
 SMALL-SCALE POLYGONS AND THE HISTORY OF GROUND ICE ON MARS
 12/18/2000 - 12/31/2001 FY01: \$62,000 Total: \$62,000
Prin. Invest.: M T MELLON
Tech. Officer: GSFC/D SENSKE
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 10211 UNIV OF COLORADO - BOULDER 3124
 ABSOLUTE GRAVITY/GPS MEASUREMENTS IN GREENLAND
 01/03/2001 - 12/31/2001 FY01: \$19,278 Total: \$19,278
Prin. Invest.: J WAHR
Tech. Officer: GSFC/W ABDALATI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10213 UNIV OF COLORADO - BOULDER 3125
 FAR INFRARED FOCAL PLANE ARRAYS
 01/04/2001 - 01/14/2002 FY01: \$290,000 Total: \$290,000
Prin. Invest.: A L BETZ
Tech. Officer: GSFC/P CRANE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10259 UNIV OF COLORADO - BOULDER 3126
 STUDIES FOR IMPROVED GRAVITATIONAL WAVE SENSITIVITY
 01/09/2001 - 12/31/2001 FY01: \$35,000 Total: \$35,000
Prin. Invest.: P L BENDER
Tech. Officer: GSFC/P CRANE
CASE Category: 13 - PHYSICS

NAG 5 10265 UNIV OF COLORADO - BOULDER 3127
 DISTRIBUTION OF NEAR-SURFACE GROUND ICE ON MARS
 01/09/2001 - 12/31/2001 FY01: \$65,000 Total: \$65,000
Prin. Invest.: M MELLON
Tech. Officer: GSFC/D SENSKE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10288 UNIV OF COLORADO - BOULDER 3128
 IMPROVING THE ACCURACY OF SATELLITE SEA SURFACE TEMPERATURE
 MEASUREMENTS BY EXPLICITLY ACCOUNTING
 01/29/2001 - 01/31/2002 FY01: \$125,000 Total: \$125,000
Prin. Invest.: W EMERY
Tech. Officer: GSFC/J C DODGE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10309 UNIV OF COLORADO - BOULDER 3129
 STUDY OF THE INFLUENCE OF SMALL SCALE E-FIELD VARIABILITY ON
 THE DISTRIBUTION OF GEOMAGNETIC
 01/24/2001 - 04/30/2002 FY01: \$41,000 Total: \$41,000
Prin. Invest.: M CODRESCU
Tech. Officer: GSFC/M MELLOTT
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10319 UNIV OF COLORADO - BOULDER 3130
 EXCITATION AND ABUNDANCIES IN N132D - FUSE.
 01/29/2001 - 01/31/2002 FY01: \$25,500 Total: \$25,500
Prin. Invest.: J A MORSE
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 10325 UNIV OF COLORADO - BOULDER 3131
 THE UNUSUAL WOLF-RAYET STAR EZ CMA
 01/31/2001 - 01/31/2002 FY01: \$14,328 Total: \$14,328
Prin. Invest.: S L SKINNER
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10326 UNIV OF COLORADO - BOULDER 3132
 DECIPHERING THE X-RAY EMISSION OF THE NEAREST HERBIG AE STAR
 01/31/2001 - 01/31/2002 FY01: \$15,000 Total: \$15,000
Prin. Invest.: S L SKINNER, NONE
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10339 UNIV OF COLORADO - BOULDER 3133
 FUV SPECTRA OF EVOLVED LATE-K & M STARS: MASS LOSS REVISITED &
 STELLAR ACTIVITY - FUSE
 02/05/2001 - 02/14/2002 FY01: \$56,500 Total: \$56,500
Prin. Invest.: G HARPER
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 10340 UNIV OF COLORADO - BOULDER 3134
 MAGNETOSPHERES AND WINDS IN THE RAPID BRAKING ZONE (FUSE 00)
 02/05/2001 - 02/14/2002 FY01: \$83,900 Total: \$83,900
Prin. Invest.: T R AYRES
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 10362 UNIV OF COLORADO - BOULDER 3135
 X-RAY EMISSION IN WOLF-RAYET STARS: XMM REVEALS THE SHOCKING
 TRUTH
 02/06/2001 - 02/14/2002 FY01: \$15,078 Total: \$15,078
Prin. Invest.: S L SKINNER
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10368 UNIV OF COLORADO - BOULDER 3136
 WIDELY TUNABLE OPTICAL LOCAL OSCILLATORS WITH 1 E-15 STABILITY:
 ULTRASTABLE LASER SYSTEMS
 02/12/2001 - 01/14/2002 FY01: \$392,722 Total: \$392,722
Prin. Invest.: J L HALL
Tech. Officer: GSFC/W HEAPS
CASE Category: 45 - ELECTRICAL ENGR

NAG 5 10413 UNIV OF COLORADO - BOULDER 3137
 REMOTE SENSING OF PLANETARY SURFACES
 02/14/2001 - 02/14/2002 FY01: \$45,000 Total: \$45,000
Prin. Invest.: B JAKOSKY
Tech. Officer: GSFC/D SENSKE
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 10418 UNIV OF COLORADO - BOULDER 3138
 GEOMORPHOLOGY AND GEODYNAMICS AT CRUSTAL BOUNDARIES
 WITHIN ASIA AND AFRICA.
 02/22/2001 - 02/28/2002 FY01: \$30,000 Total: \$30,000
Prin. Invest.: R G BILHAM
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 10461 UNIV OF COLORADO - BOULDER 3139
 LITHOSPHERIC DYNAMICS OF MARS: WATER, FLOW, & FAILURE
 02/26/2001 - 07/20/2001 FY01: \$0 Total: \$0
Prin. Invest.: R E GRIMM
Tech. Officer: GSFC/D SENSKE
CASE Category: 11 - ASTRONOMY

NAG 5 10474 UNIV OF COLORADO - BOULDER 3140
 SOLAR WIND FLUCTUATIONS & THEIR CONSEQUENCES ON THE MAGNE-
 TOSPHERE
 02/27/2001 - 02/28/2002 FY01: \$82,080 Total: \$82,080
Prin. Invest.: X LI
Tech. Officer: GSFC/J SPANN
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 10508 UNIV OF COLORADO - BOULDER 3141
 DYNAMICS OF PLANETESIMALS AND PLANETARY ACCRETION
 03/05/2001 - 02/28/2002 FY01: \$82,000 Total: \$82,000
Prin. Invest.: G R STEWART
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 10556 UNIV OF COLORADO - BOULDER 3142
 INVESTIGATION OF THE ASSIMILATION OF ICE MOTION DATA IN SEA ICE MODELS
 03/12/2001 - 03/14/2002 FY01: \$96,593 Total: \$96,593
Prin. Invest.: T ARBETTER
Tech. Officer: GSFC/W ABDALATI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10581 UNIV OF COLORADO - BOULDER 3143
 HIGH-RESOLUTION THERMAL INERTIA OF MARS
 03/19/2001 - 02/28/2002 FY01: \$88,000 Total: \$88,000
Prin. Invest.: M MELON
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 10600 UNIV OF COLORADO - BOULDER 3144
 ASSESSMENT OF GREENLAND OUTLET GLACIER ALBEDO VARIABILITY
 03/14/2001 - 03/14/2002 FY01: \$46,013 Total: \$46,013
Prin. Invest.: J STROEVE
Tech. Officer: GSFC/W ABDALATI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10601 UNIV OF COLORADO - BOULDER 3145
 COMPARISON OF INTERSTELLAR & INTERPLANETARY GRAINS
 03/19/2001 - 02/28/2002 FY01: \$15,000 Total: \$15,000
Prin. Invest.: T SNOW
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 10616 UNIV OF COLORADO - BOULDER 3146
 PHYSICAL PROPERTIES OF POTENTIAL MARS LANDING SITE S
 03/16/2001 - 03/14/2002 FY01: \$39,000 Total: \$39,000
Prin. Invest.: B JAKOSKY
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 10698 UNIV OF COLORADO - BOULDER 3147
 CONTRAIL PERSISTENCE AND AIRCRAFT EXHAUST IMPACTS ON CIRRUS
 04/18/2001 - 11/30/2001 FY01: \$42,025 Total: \$42,025
Prin. Invest.: O TOON
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 10763 UNIV OF COLORADO - BOULDER 3148
 COSMOLOGICAL PARAMETERS FROM LARGE SCALE STRUCTURE (ATP 2000)
 04/23/2001 - 04/30/2002 FY01: \$79,425 Total: \$79,425
Prin. Invest.: A J HAMILTON
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 10790 UNIV OF COLORADO - BOULDER 3149
 DETERMINING THE STRUCTURE OF LOW-LEVEL JETS IN MARITIME STORMS USING QUIKSCAT
 04/25/2001 - 04/30/2002 FY01: \$120,012 Total: \$120,012
Prin. Invest.: O PERSSON
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 10791 UNIV OF COLORADO - BOULDER 3150
 INFARED AND PASSIVE MICROWAVE RADIOMETRIC SSTS AND THEIR RELATIONSHIPS TO ATMOSPHERIC FORCING
 04/25/2001 - 04/30/2002 FY01: \$115,618 Total: \$115,618
Prin. Invest.: W EMERY
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 10797 UNIV OF COLORADO - BOULDER 3151
 CONCEPT STUDY FOR THE "JUPITER MAGNETOSPHERIC EXPLORER" (JME) MISSION AO-99-OSS-05
 04/30/2001 - 04/30/2002 FY01: \$423,472 Total: \$423,472
Prin. Invest.: D M SCHNEIDER
Prin. Invest.: NONE
Tech. Officer: GSFC/J R BYRD
CASE Category: 11 - ASTRONOMY

NAG 5 10857 UNIV OF COLORADO - BOULDER 3152
 VARIABILITY AND FORCING OF CLIMATIC PARAMETERS ON THE GREENLAND ICE SHEET: GREENLAND CLIMATE NETWORK
 05/03/2001 - 04/30/2002 FY01: \$150,000 Total: \$150,000
Prin. Invest.: K STEFFEN
Tech. Officer: GSFC/A
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10892 UNIV OF COLORADO - BOULDER 3153
 HARD X-RAY, SPECTROSCOPIC MICROWAVE, AND H-ALPHA LINEAR POLARIZATION STUDIES WITH HARD X-RAY OBSERV
 05/10/2001 - 05/31/2002 FY01: \$75,905 Total: \$75,905
Prin. Invest.: A KIPLINGER
Tech. Officer: GSFC/J GURMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 10917 UNIV OF COLORADO - BOULDER 3154
 SPATIAL VARIATION OF HELIOSEISMIC FREQUENCY SHIFTS
 05/14/2001 - 05/31/2002 FY01: \$84,404 Total: \$84,404
Prin. Invest.: B HINDMAN
Tech. Officer: GSFC/J GURMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 10937 UNIV OF COLORADO - BOULDER 3155
 LWS PROPOSAL TO PROVIDE SCIENTIFIC GUIDANCE AND MODELING SUPPORT FOR THE IONOSPHERIC MAPPER MISSION
 05/15/2001 - 05/14/2002 FY01: \$169,737 Total: \$169,737
Prin. Invest.: T FULLER-ROWELL
Tech. Officer: GSFC/J F SPANN
CASE Category: 99 - MULTIINTERDISCIPL, OTHER

NAG 5 10948 UNIV OF COLORADO - BOULDER 3156
 MOLECULE FORMATION AT HIGH EXTINCTION AND LOW METALLICITY IN THE MAGELLANIC CLOUDS - FUSE 2000
 05/24/2001 - 05/31/2002 FY01: \$62,500 Total: \$62,500
Prin. Invest.: J SHULL
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 10950 UNIV OF COLORADO - BOULDER 3157
 FOSSIL FUEL IN THE LOCAL GROUP (FUSE 00)
 05/24/2001 - 05/31/2002 FY01: \$26,500 Total: \$26,500
Prin. Invest.: M GIROUX
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 10954 UNIV OF COLORADO - BOULDER 3158
 SCALING AND ALLOMETRY IN RIVER NETWORKS: COUPLING RAINFALL,
 TOPOGRAPHY, AND VEGETATION WITH HYDROLOG
 05/18/2001 - 05/31/2002 FY01: \$55,963 Total: \$55,963
Prin. Invest.: V GUPTA
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 10966 UNIV OF COLORADO - BOULDER 3159
 AEROSOL-CLOUD-CLIMATE INTERACTIONS
 06/04/2001 - 05/31/2002 FY01: \$68,374 Total: \$68,374
Prin. Invest.: K STEFFEN
Tech. Officer: GSFC/J ZWALLY
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 10967 UNIV OF COLORADO - BOULDER 3160
 POLAR TIMAS OPERATIONS AND DATA ANALYSIS
 06/06/2001 - 11/30/2001 FY01: \$100,000 Total: \$100,000
Prin. Invest.: W K PETERSON
Tech. Officer: GSFC/R HOFFMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 10970 UNIV OF COLORADO - BOULDER 3161
 DYNAMICAL MODELS OF SOLAR SYSTEM FORMATION AND EVOLUTION
 05/22/2001 - 05/31/2002 FY01: \$40,000 Total: \$40,000
Prin. Invest.: G R STEWART
Tech. Officer: GSFC/D A SENSKE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 10983 UNIV OF COLORADO - BOULDER 3162
 PRODUCT DISTRIBUTION FOR THE RAMP AMM-1 VERSION 2 AT THE
 NATIONAL SNOW AND ICE DATA CENTER
 06/12/2001 - 06/14/2002 FY01: \$19,631 Total: \$19,631
Prin. Invest.: T SCAMBOS
Tech. Officer: GSFC/W ABDALATI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 11022 UNIV OF COLORADO - BOULDER 3163
 A STUDY OF UNCERTAINTIES FOR MODIS CLOUD RETRIEVAL OF OPTICAL
 THICKNESS & EFFECTIVE RADIUS
 06/07/2001 - 03/31/2002 FY01: \$49,408 Total: \$49,408
Prin. Invest.: D PINCUS
Tech. Officer: GSFC/D STARR
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 11028 UNIV OF COLORADO - BOULDER 3164
 CONTINUATION OF THE SCIENCE ANALYSIS AND DATA VALIDATION OF
 THE UARS SOLSTICE.
 06/25/2001 - 06/30/2002 FY01: \$100,000 Total: \$100,000
Prin. Invest.: G J ROTTMAN
Tech. Officer: GSFC/C JACKSON
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 11069 UNIV OF COLORADO - BOULDER 3165
 INVESTIGATIONS OF DESERT DUST & SMOKE IN THE NORTH ATLANTIC IN
 SUPPORT OF THE TOMS INSTRUMENT.
 07/20/2001 - 07/14/2002 FY01: \$100,000 Total: \$100,000
Prin. Invest.: O B TOON
Tech. Officer: GSFC/P K BHARTIA
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 11107 UNIV OF COLORADO - BOULDER 3166
 VALIDATION OF AMSR-E SNOW PRODUCTS AQUA-0090-0026 /
 NRA-00-OES-
 07/24/2001 - 08/31/2002 FY01: \$75,774 Total: \$75,774
Prin. Invest.: R L ARMSTRONG
Tech. Officer: GSFC/D STARR
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 11110 UNIV OF COLORADO - BOULDER 3167
 BALLOON BORNE SOUNDINGS FOR VALIDATION OF UPPER TROPO-
 SPHERIC HUMIDITY AND TEMPERATURE (NRA-00-OES-
 07/12/2001 - 08/31/2002 FY01: \$100,523 Total: \$100,523
Prin. Invest.: H W VOEMEL
Tech. Officer: GSFC/D STARR
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 11167 UNIV OF COLORADO - BOULDER 3168
 DENSITY STRUCTURES IN THE THERMOSPHERE OF MARS: ASSIMILATIVE
 ANALYSES OF MGS ACCELEROMETER AND TES
 08/07/2001 - 08/14/2003 FY01: \$45,000 Total: \$45,000
Prin. Invest.: J FORBES
Tech. Officer: GSFC/J M BOYCE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 11177 UNIV OF COLORADO - BOULDER 3169
 ANALYSIS OF MGS MAGNETOMETER DATA & COMPARISONS WITH MODELS
 OF MARS' MAGNETIC FIELD & SOLAR WIND
 08/13/2001 - 08/14/2003 FY01: \$61,000 Total: \$61,000
Prin. Invest.: F BAGENAL
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 11192 UNIV OF COLORADO - BOULDER 3170
 MEASUREMENT & INTERPRETATION ON TEMPORAL VARIATION OF THE
 EARTH'S GRAVITY FIELD USING GPS & SLR DATA
 08/30/2001 - 08/31/2002 FY01: \$25,000 Total: \$25,000
Prin. Invest.: S R NEREM
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 11205 UNIV OF COLORADO - BOULDER 3171
 DETECTING FUTURE TRENDS IN OZONE-LOOKING FOR INITIAL SIGNS OF
 RECOVERY IN TOMS AND SBUV/2 RECORDS
 08/09/2001 - 08/14/2004 FY01: \$40,915 Total: \$40,915
Prin. Invest.: E WEATHERHEAD
Tech. Officer: GSFC/R MCPETERS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 11224 UNIV OF COLORADO - BOULDER 3172
 INVESTIGATING THE FORMATION OF THE THARSIS RISE AND CRUSTAL
 DICHOTOMY BY MODELING THE MGS DATA AND M
 08/13/2001 - 08/14/2004 FY01: \$57,000 Total: \$57,000
Prin. Invest.: S ZHONG
Tech. Officer: GSFC/J BOYCE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 11238 UNIV OF COLORADO - BOULDER 3173
 REGIONAL NPP & CARBON STOCKS IN SW USA RANGELANDS: LAND USE
 IMPACTS ON THE GRASSLAND-WOODLAND BALANC
 09/17/2001 - 08/31/2004 FY01: \$365,301 Total: \$365,301
Prin. Invest.: C WESSMAN
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 11241 UNIV OF COLORADO - BOULDER 3174
 12TH CAMBRIDGE WORKSHOP ON COOL STARS, STELLAR SYS TEMS AND
 THE SUN: THE FUTURE OF COOL-STAR ASTROPH
 08/15/2001 - 09/30/2001 FY01: \$15,000 Total: \$15,000
Prin. Invest.: T AYRES
Tech. Officer: GSFC/P CRANE
CASE Category: 11 - ASTRONOMY

NAG 5 11243 UNIV OF COLORADO - BOULDER 3175
 THEORETICAL INVESTIGATIONS OF CLOUDS AND AEROSOLS IN THE
 STRATOSPHERE AND UPPERTROPOSPHERE
 08/16/2001 - 08/31/2004 FY01: \$139,160 Total: \$139,160
Prin. Invest.: O B TOON
Tech. Officer: GSFC/P DECOLA
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 11279 UNIV OF COLORADO - BOULDER 3176
 OVERSIGHT AND DEVELOPMENT OF A COMMUNITY MONTE CAR LO RADIA-
 TIVEONE YEARGRANT
 08/21/2001 - 08/31/2002 FY01: \$12,300 Total: \$12,300
Prin. Invest.: R PINCUS
Tech. Officer: GSFC/R CAHALAN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 11292 UNIV OF COLORADO - BOULDER 3177
 QUALITY DATA VISUALIZATION TOOL FOR MODIS
 08/22/2001 - 08/31/2002 FY01: \$77,600 Total: \$77,600
Prin. Invest.: R L WEAVER
Tech. Officer: GSFC/K L MOE
CASE Category: 22 - COMPUTER SCIENCE

NAG 5 11294 UNIV OF COLORADO - BOULDER 3178
 SIMPLE MODELS OF THE SPATIAL DISTRIBUTION OF CLOUD RADIATIVE
 PROPERTIES FOR REMOTE SENSING STUDIES
 08/22/2001 - 09/30/2002 FY01: \$42,593 Total: \$42,593
Prin. Invest.: R PINCUS
Tech. Officer: GSFC/W WISCOMBE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 11299 UNIV OF COLORADO - BOULDER 3179
 INVESTIGATION OF THE OFF-PLANE GRATING TECHNOLOGY FOR X-RAYS-
 PECTROSCOPY. DELIVERABLE I
 08/29/2001 - 11/30/2001 FY01: \$15,000 Total: \$15,000
Prin. Invest.: D CASH
Tech. Officer: GSFC/D T NGUYEN
CASE Category: 13 - PHYSICS

NAG 5 11308 UNIV OF COLORADO - BOULDER 3180
 ICE SHELVES AND LANDFAST ICE ON THE ANTARCTIC PERI METER: CHAR-
 ACTERISTICSAND THE EFFECTS OF CLIMATE
 08/30/2001 - 08/31/2003 FY01: \$20,632 Total: \$20,632
Prin. Invest.: T SCAMBOS
Tech. Officer: GSFC/W ABDALATI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1446 UNIV OF COLORADO - BOULDER 3181
 FUNDAMENTAL PHYSICS USING FREQUENCY STABILIZED LASERS AS
 OPTICAL ATOMIC CLOCKS
 02/05/1998 - 01/31/2001 FY01: \$0 Total: \$195,000
Prin. Invest.: J HALL
Tech. Officer: MSFC/D HUBBARD
CASE Category: 13 - PHYSICS

NAG 8 1475 UNIV OF COLORADO - BOULDER 3182
 INFLUENCE OF SOLUTOCAPILLARY CONVECTION ON MACRO- VOID
 DEFECT FORMATION IN POLYMERIC MEMBRANES
 02/03/1998 - 01/31/2002 FY01: \$68,400 Total: \$258,000
Prin. Invest.: A GREENBERG
Tech. Officer: MSFC/P M DOTY
CASE Category: 13 - PHYSICS

NAG 8 1551 UNIV OF COLORADO - BOULDER 3183
 R/S DESIGN AND CALIBRATION OF AUTONOMOUS COHERENT DOPPLER
 LIDAR FOR SPACE MISSIONS
 12/01/1998 - 11/30/2001 FY01: \$0 Total: \$126,185
Prin. Invest.: R FREHLICH
Tech. Officer: MSFC/M KAVAYA
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 9 1209 UNIV OF COLORADO - BOULDER 3184
 MULTI WAVELENGTH ANALYSIS OF ASTEROIDS
 03/01/2000 - 12/31/2001 FY01: \$0 Total: \$14,880
Prin. Invest.: A R HENDRIX
Tech. Officer: JSC/F VILAS
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAS 5 97045 UNIV OF COLORADO - BOULDER 3185
 EXTENSION OF SOLSTICE PHASE B EFFORT
 02/21/1997 - 07/31/2007 FY01: \$15,887,963 Total: \$59,333,364
Prin. Invest.: G ROTTMAN
Tech. Officer: GSFC/V GRIFFIN
CASE Category: 42 - ASTRONAUTICAL ENGR

NAS 5 97046 UNIV OF COLORADO - BOULDER 3186
 LETTER CONTRACT FOR HIRDIS PHASE C/D/E
 01/17/1997 - 03/31/2008 FY01: \$2,781,900 Total: \$76,070,995
Prin. Invest.: J GILLE
Tech. Officer: GSFC/L MILAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAS 5 97145 UNIV OF COLORADO - BOULDER 3187
 MISSION OPERATIONS, DATA ANALYSIS, AND ALGORITHM MAINTENANCE
 FOR UARS SOLSTICE
 03/31/1997 - 11/30/2001 FY01: \$262,052 Total: \$1,558,799
Prin. Invest.: G J ROTTMAN
Tech. Officer: GSFC/C H JACKMAN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAS 5 98043 UNIV OF COLORADO - BOULDER 3188
 SCIENCE MANAGEMENT FOR COS
 03/04/1998 - 08/15/2003 FY01: \$2,341,600 Total: \$12,609,600
Prin. Invest.: J GREEN
Tech. Officer: GSFC/L FEINBERG
CASE Category: 11 - ASTRONOMY

NAS 5 98070 UNIV OF COLORADO - BOULDER 3189
 OPERATION OF SNOW AND ICE DISTRIBUTED ACTIVE ARCHIVE
 01/29/1998 - 01/31/2003 FY01: \$4,440,000 Total: \$14,307,345
Prin. Invest.: R G BARRY, V TROISI
Tech. Officer: GSFC/Q A BARKER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAS 8 38779 UNIV OF COLORADO - BOULDER 3190
 MECHANICS OF GRANULAR MATERIALS MICROGRAVITY
 09/24/1992 - 10/31/2002 FY01: \$475,852 Total: \$4,240,513
Prin. Invest.: S STURE
Tech. Officer: MSFC/B V GUYNES
CASE Category: 47 - METAL & MATERIALS ENGR

NCC 1 281 UNIV OF COLORADO - BOULDER 3191
 NANOMECHANICS OF ACTIVELY CONTROLLED DEPLOYABLE OPTICS
 03/11/1998 - 03/10/2001 FY01: -\$1 Total: \$262,924
Prin. Invest.: L D PETERSON
Tech. Officer: LARC/M S LAKE
CASE Category: 42 - ASTRONAUTICAL ENGR

NCC 1 01046 UNIV OF COLORADO - BOULDER 3192
 VERY LARGE EFFICIENT SPACE STRUCTURES
 06/22/2001 - 01/21/2002 FY01: \$60,000 Total: \$60,000
Prin. Invest.: M M MIKULAS, JR
Tech. Officer: LARC/W K BELVIN
CASE Category: 42 - ASTRONAUTICAL ENGR

NCC 1 01048 UNIV OF COLORADO - BOULDER 3193
 EVA & ROBOTIC ASSEMBLY OF LARGE SPACE STRUCTURES
 08/20/2001 - 12/19/2002 FY01: \$20,000 Total: \$20,000
Prin. Invest.: E C WEATHERHEAD
Tech. Officer: LARC/B A WIELICKI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 2 1052 UNIV OF COLORADO - BOULDER 3194
 CENTER FOR ASTROBIOLOGY
 08/28/1998 - 06/30/2003 FY01: \$922,526 Total: \$1,975,492
Prin. Invest.: B JAKOSKI
Tech. Officer: ARC/R A GRAYMES, ARC/W W DOLCI
CASE Category: 59 - LIFE SCIENCE, OTHER

NCC 2 1104 UNIV OF COLORADO - BOULDER 3195
 A COMPREHENSIVE-BASED ANALYSIS OF SHARED CONCEPTUAL
 MODELS OF AVIONICS SYSTEMS
 04/02/1999 - 03/31/2002 FY01: \$91,059 Total: \$232,978
Prin. Invest.: P POISON
Tech. Officer: ARC/E A PALMER, ARC/N SMITH
CASE Category: 21 - MATHEMATICS

NCC 2 1112 UNIV OF COLORADO - BOULDER 3196
 COMPREHENSION OF NAVIGATION DIRECTIONS
 04/14/1999 - 09/30/2002 FY01: \$37,618 Total: \$103,051
Prin. Invest.: A F HEALY
Tech. Officer: ARC/I BARSHI
CASE Category: 69 - PSYCHOLOGY, OTHER

NCC 2 1145 UNIV OF COLORADO - BOULDER 3197
 THE APPLICATION OF ADVANCED CULTIVATION TECHNIQUES IN THE LONG
 TERM MAINTENANCE OF SPACE FLIGHT...
 12/01/1999 - 01/14/2002 FY01: \$86,337 Total: \$119,337
Prin. Invest.: G HEYENGA
Tech. Officer: ARC/M KLISS
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NCC 2 5300 UNIV OF COLORADO - BOULDER 3198
 THE ROLE OF CLOUDS IN LONG-TERM HABITABILITY OF PLA NETS
 11/18/1998 - 12/31/2000 FY01: \$0 Total: \$146,001
Prin. Invest.: O B TOON
Tech. Officer: ARC/R E YOUNG, ARC/R M HABERLE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 2 5391 UNIV OF COLORADO - BOULDER 3199
 INTEGRATION & SUPPORT OF NIH-B1 DROSOPHILA MELANOG ASTER
 NEURAL DEVELOPMENT EXPERIMENT ON SHUTTLE 10
 08/15/2000 - 02/14/2001 FY01: \$0 Total: \$25,000
Prin. Invest.: L STODIECK
Tech. Officer: ARC/D REISS-BEBENHEIM
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NCC 2 5401 UNIV OF COLORADO - BOULDER 3200
 THE PROPERTIES OF CLOUDS IN THE ATMOSPHERES OF EARLY EARTH,
 MARS, & TITAN
 09/29/2000 - 10/31/2002 FY01: \$94,128 Total: \$109,801
Prin. Invest.: O B TOON
Tech. Officer: ARC/R E YOUNG
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 3 773 UNIV OF COLORADO - BOULDER 3201
 MICROELECTROMECHANICAL LINEAR ACTUATOR MICROELECTROMECHANICAL
 LINEAR ACTUATOR
 02/15/2000 - 12/31/2001 FY01: \$100,000 Total: \$149,998
Prin. Invest.: Y LEE
Tech. Officer: GRC/H NGUYEN
CASE Category: 45 - ELECTRICAL ENGR

NCC 3 796 UNIV OF COLORADO - BOULDER 3202
 SURFACE COLLISIONS INVOLVING PARTICLES AND MOISTURE (SCIPM)
 05/16/2000 - 05/30/2004 FY01: \$26,000 Total: \$76,000
Prin. Invest.: R H DAVIS
Tech. Officer: GRC/F P CHARIAMONTE 111
CASE Category: 49 - ENGINEERING, OTHER

NCC 5 458 UNIV OF COLORADO - BOULDER 3203
 EO-1 EVALUATION & VERIFICATION FOR APPLICATION TO LAND-USE
 CHANGE: ATMOSPHERIC CORRECTION, SOIL &
 02/25/2000 - 12/31/2001 FY01: \$240,950 Total: \$404,728
Prin. Invest.: A F GOETZ
Tech. Officer: GSFC/S G UNGAR
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 5 480 UNIV OF COLORADO - BOULDER 3204
 ANALYSIS OF EO-1, LANDSAT 7, AND AVIRIS FOR ESTIMATING VEGETATION
 STRUCTURE AND FUNCTION IN ARID EC
 03/20/2000 - 12/31/2001 FY01: \$6,035 Total: \$87,920
Prin. Invest.: G P ASNER
Tech. Officer: GSFC/S G UNGAR
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 5 481 UNIV OF COLORADO - BOULDER 3205
 LOW-COST EVALUATION OF EO-1 HYPERION AND ALI FOR DETECTION &
 BIOPHYSICAL CHARACTERIZATION OF FOREST
 03/20/2000 - 03/31/2002 FY01: \$4,788 Total: \$128,617
Prin. Invest.: G P ASNER
Tech. Officer: GSFC/S G UNGAR
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 5 564 UNIV OF COLORADO - BOULDER 3206
 ALGORITHMS FOR AUTONOMOUS GPS ORBIT DETERMINATION AND
 FORMATION FLYING
 06/12/2001 - 12/31/2001 FY01: \$25,000 Total: \$25,000
Prin. Invest.: P AXELRAD
Tech. Officer: GSFC/J A LEITNER
CASE Category: 42 - ASTRONAUTICAL ENGR

NCC 8 131 UNIV OF COLORADO - BOULDER 3207
 BIONERVE SPACE TECHNOLOGIES
 01/31/1997 - 10/31/2001 FY01: \$2,865,245 Total: \$12,113,345
Prin. Invest.: G MORGENTHAUER
Tech. Officer: MSFC/S J LAMBING
CASE Category: 59 - LIFE SCIENCE, OTHER

NCC 9 65 UNIV OF COLORADO - BOULDER 3208
 SPACE STATION BASED MIRON ACURACY DEPLOYMENT EXPER IMENT
 07/01/1997 - 10/31/2001 FY01: \$0 Total: \$1,475,362
Prin. Invest.: L PETERSON
Tech. Officer: JSC/C PARRA
CASE Category: 41 - AERONAUTICAL ENGR

NGT 40008 UNIV OF COLORADO - BOULDER 3209
 NATIONAL SPACE GRANT COLLEGE & FELLOWSHIP PROGRAM
 10/19/1989 - 02/28/2000 FY01: \$0 Total: \$2,773,666
Prin. Invest.: E R HANSEN
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 1 01023 UNIV OF COLORADO - BOULDER 3210
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) MY 1/3
 06/06/2001 - 06/30/2004 FY01: \$12,000 Total: \$12,000
Prin. Invest.: T O MANN
Tech. Officer: LARC/W K BELVIN
CASE Category: 42 - ASTRONAUTICAL ENGR

NGT 1 52182 UNIV OF COLORADO - BOULDER 3211
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
 12/01/1998 - 08/31/2001 FY01: \$12,001 Total: \$66,001
Prin. Invest.: M J ARMATYS, P AXELRAD
Tech. Officer: LARC/S J KATZBERG
CASE Category: 41 - AERONAUTICAL ENGR

NGT 2 52264 UNIV OF COLORADO - BOULDER 3212
 MODELING AEROSOL NUCLEATION IN THE PRESENCE OF CLO UDS
 06/23/2000 - 06/30/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: O TOON
Tech. Officer: ARC/A S ACKERMAN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NGT 2 52270 UNIV OF COLORADO - BOULDER 3213
 HYDROCARBON NUCLEATION ON THOLINS: APPLICATIONS T O TITAN
 08/29/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: M A TOLBERT
Tech. Officer: ARC/C P MCKAY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NGT 2 52279 UNIV OF COLORADO - BOULDER 3214
 COLD SALINE SPRINGS IN PERMAFROST ON EARTH AND MAR S
 06/22/2001 - 06/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: B TOON
Tech. Officer: ARC/C P MCKAY
CASE Category: 32 - GEOLOGICAL SCIENCE

NGT 5 47 UNIV OF COLORADO - BOULDER 3215
 INVESTIGATION OF HARDWARE AND ALGORITHM ARCHITECTU GEO AND
 HEO ORBITS
 06/23/1997 - 06/30/2001 FY01: \$0 Total: \$88,000
Prin. Invest.: P AXELRAD
Tech. Officer: GSFC/M S BURRELL
CASE Category: 46 - MECHANICAL ENGR

NGT 5 49 UNIV OF COLORADO - BOULDER 3216
 OUTER ELECTRON BELT MODELING BY ASSIMILATION OF RE DATA
 06/23/1997 - 06/30/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: D N BAKER
Tech. Officer: GSFC/M S BURRELL
CASE Category: 11 - ASTRONOMY

NGT 5 80 UNIV OF COLORADO - BOULDER 3217
 THE STRUCTURE AND DEVELOPMENT OF SUPERNOVA REMNANT 1987A
 (STUDENT): ELI MICHAEL
 05/12/1999 - 06/30/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: R MCCRAY
Tech. Officer: GSFC/M S BURRELL
CASE Category: 13 - PHYSICS

NGT 5 93 UNIV OF COLORADO - BOULDER 3218
 USE OF REMOTE SENSING IMAGERY IN BIOGECHEMICAL MOD ELS TO
 PREDICT TRACE GAS EMISSIONS & CROP YEILD
 06/15/1999 - 06/30/2001 FY01: \$0 Total: \$44,000
Prin. Invest.: N KHATIB
Prin. Invest.: NONE
Tech. Officer: GSFC/J L PRIVETTE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 123 UNIV OF COLORADO - BOULDER 3219
 INVESTIGATION OF GPS BISTATIC RADAR FOR SOIL MOISTURE REMOTE
 SENSING (STUDENT): DALLAS MASTERS
 06/07/2001 - 06/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: D AXELRAD
Tech. Officer: GSFC/M S BURRELL
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30026 UNIV OF COLORADO - BOULDER 3220
 SCALABLE AND ADAPTIVE FILE MANAGEMENT IN NETWORKS
 10/17/1996 - 03/31/2000 FY01: \$655 Total: \$67,310
Prin. Invest.: D WEISMAN
Tech. Officer: HQ/G ASRAR
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30072 UNIV OF COLORADO - BOULDER 3221
 PASSIVE MICROWAVE MEASUREMENTS OF ARCTIC CLOUDS
 09/09/1997 - 08/31/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: J CURRY
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30076 UNIV OF COLORADO - BOULDER 3222
 ATMOSPHERIC LIFETIMES OF PEROXY NITRATES _STUDENT - EDW
 09/09/1997 - 02/28/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: A R RAVISHANKARA
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30128 UNIV OF COLORADO - BOULDER 3223
 SPATIAL VARIABILITY OF CLOUD CHARACTERISTICS & SUR FACE RADI-
 ATION FLUXES FOR SHEBA/FIRE III
 10/01/1997 - 08/31/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: J CURRY
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30136 UNIV OF COLORADO - BOULDER 3224
 LABORATORY STUDIES OF CIRRUS CLOUD FORMATION MECHA NISMS/
 STUDENT:FORTIN
 09/04/1998 - 08/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: M TOLBERT
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30155 UNIV OF COLORADO - BOULDER 3225
 COMPARISONS OF THREE-DIMENSIONAL GENERAL CIRCULATI ON MODEL
 SIMULATIONS OF THE DESERT AEROSOL LIFE
 08/28/1998 - 08/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: B TOON, COLARCO
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30170 UNIV OF COLORADO - BOULDER 3226
 ATMOSPHERIC CIRCULATION AND REGIONAL SEA ICE SENSI TIVITY IN THE
 ARCTIC STUDENT:LYNCH CULLATHER
 09/04/1998 - 08/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: A H LYNCH
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30180 UNIV OF COLORADO - BOULDER 3227
 SPATIAL AND TEMPORAL RESPONSE TO ANTHROPOGENIC NIT ROGEN
 DEPOSITION IN A HETEROGENEOUS ROCKY MOUNTAI
 08/12/1999 - 08/31/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: C A WESSMAN
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30209 UNIV OF COLORADO - BOULDER 3228
 IN SITU MEASUREMENTS OF CARBON DIOXIDE IN THE UPPER TROPO-
 SPHERE & LOWER STRATOSPHERE/STUDENT GAT
 08/18/1999 - 08/31/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: L M AVALLONE
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30345 UNIV OF COLORADO - BOULDER 3229
 LINKING LANDSAT TM DATA & EVAPOTRANSPIRATION IN TWO HUMID
 TROPICAL WATERSHEDS IN PANAMA/STUDENT AL
 08/21/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: G ASNER
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30348 UNIV OF COLORADO - BOULDER 3230
 REGIONAL IMPACTS OF WOODLAND EXPANSION ON NITROGEN OXIDE
 EMISSIONS FROM TEXAS SAVANNAS: COMBINING
 08/21/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: G ASNER
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30363 UNIV OF COLORADO - BOULDER 3231
 LABORATORY STUDIES OF ICE NUCLEATION FROM INTERNAL LY MIXED
 SULFURIC ACID/MINERALAEROSOL PARTICLES/
 08/24/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: M A TOLBERT
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30376 UNIV OF COLORADO - BOULDER 3232
 A HIGH-RESOLUTION ABLATION STUDY NEAR JAKOBSHAVN O N THE
 GREENLAND ICE SHEET/TODD H. ALBERT
 08/13/2001 - 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: K STEFFEN
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30394 UNIV OF COLORADO - BOULDER 3233
 IMPROVEMENTS IN THE ESTIMATION OF THE EARTH'S GRAV ITY FIELD
 USING GRACE MISSION DATA (STUDENT: DON
 08/14/2001 - 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: S NEREM
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30399 UNIV OF COLORADO - BOULDER 3234
 CLIMATIC VARIABILITY, HUMAN AGENCY & ENVIRONMENTAL CHANGE
 ACROSS AN ALTITUDINAL TRANSECT, ANDES-AMAZ
 08/14/2001 - 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: R BARRY
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30416 UNIV OF COLORADO - BOULDER 3235
 SNOW SLOPE STABILITY: MODELING AND INVESTIGA-
 TIONS(STUDENT:HANS-PETER MARSHA
 08/17/2001 - 08/31/2005 FY01: \$9,317 Total: \$9,317
Prin. Invest.: T PFEFFER
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30422 UNIV OF COLORADO - BOULDER 3236
 HETEROGENEOUS N2O5 HYDROLYSIS ON MIXED (NH4)2SO4/O ORGANIC
 THIN FILMS REPRESENTATIVE OF TROPOSPHE
 09/07/2001 - 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: M A TOLBERT
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40028 UNIV OF COLORADO - BOULDER 3237
 NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA
 12/31/1996 - 01/31/2001 FY01: -\$60,118 Total: \$1,807,630
Prin. Invest.: E R HANSEN
Tech. Officer: GSFC/D D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40072 UNIV OF COLORADO - BOULDER 3238
 COLORADO SPACE GRANT COLLEGE & FELLOWSHIP PROGRAM
 02/09/2001 - 01/31/2002 FY01: \$535,118 Total: \$535,118
Prin. Invest.: E R HANSEN
Tech. Officer: GSFC/D D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50102 UNIV OF COLORADO - BOULDER 3239
 PROPOSAL FOR THE DEVELOPMENT, EXPLORATION, AND VAL , FULLY
 THREE-DIMENSIONAL EARTHQUAKE MODEL
 09/06/1997 - 02/28/2001 FY01: -\$40 Total: \$65,960
Prin. Invest.: J RUNDLE
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50106 UNIV OF COLORADO - BOULDER 3240
 DETERMINATION OF OPTICAL CONSTANTS FOR THE REMOTE STRATO-
 SPHERIC CLOUDS AND GLOBALAEROSOLS
 09/06/1997 - 08/31/2000 FY01: -\$496 Total: \$65,504
Prin. Invest.: M TOLBERT
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50176 UNIV OF COLORADO - BOULDER 3241
 A STUDY OF THE HOT COMPONENT OF THE LOCAL INTERSTE LLAR
 MEDIUM
 05/22/1998 - 06/30/2001 FY01: \$0 Total: \$44,000
Prin. Invest.: J C GREEN/MCLEAN
Tech. Officer: HQ/A NURRIDIN
CASE Category: 11 - ASTRONOMY

NGT 5 50194 UNIV OF COLORADO - BOULDER 3242
 STELLAR EVOLUTION IN STARBURST GALAXIES
 06/05/1998 - 07/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: P S CONTI
Tech. Officer: HQ/A NURRIDIN
CASE Category: 11 - ASTRONOMY

NGT 5 50197 UNIV OF COLORADO - BOULDER 3243
 MARTIAN SURFACE MAGNETIC FIELD
 06/11/1998 - 06/30/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: F BAGENAL
Tech. Officer: HQ/A NURRIDIN
CASE Category: 11 - ASTRONOMY

NGT 5 50232 UNIV OF COLORADO - BOULDER 3244
 TIDES AND ZONAL MEAN FROM SATELLITE-BASED MEASUREMENTS:
 ANALYSIS TECHNIQUES
 05/27/1999 - 06/30/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: J FORBES
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50237 UNIV OF COLORADO - BOULDER 3245
 MODELING THE POST-RUNAWAY GROWTH OF TERRESTRIAL PLANETS
 (STUDENT: CRAIG AGNOR)
 05/27/1999 - 06/30/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: R CANUP
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50241 UNIV OF COLORADO - BOULDER 3246
 PROBING CORONAL STRUCTURE & VARIABILITY IN ACTIVE BINARY
 SYSTEMS
 06/03/1999 - 06/30/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: A BROWN, NONE
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50242 UNIV OF COLORADO - BOULDER 3247
 MAPPING THE DETAILED STRUCTURE OF THE LOCAL INTERS TELLAR
 MEDIUM
 06/03/1999 - 06/30/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: J LINSKY
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50271 UNIV OF COLORADO - BOULDER 3248
 LANDSCAPE DYNAMICS IN THE ARID SOUTHWEST: INTERACT IONS OF
 ECOSYSTEM PATTERN & PROCESS THROUGH TIME
 08/12/1999 - 08/31/2000 FY01: \$0 Total: \$22,000
Prin. Invest.: C WESSMAN
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50273 UNIV OF COLORADO - BOULDER 3249
 ATMOSPHERIC MODELING AND INFRARED OBSERVATIONS OF TRANSITING
 EXTRASOLAR PLANET/STUDENT: L. JEREMY RI
 06/08/2000 - 06/30/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: L ESPOSITO
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50294 UNIV OF COLORADO - BOULDER 3250
 DUST DYNAMICS IN PHOTOELECTRON LAYERS NEAR SURFACE IN SPACE/
 STUDENT: AMANDA SICKAFOOSE
 06/26/2000 - 06/30/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: J E COLDWELL
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50320 UNIV OF COLORADO - BOULDER 3251
 SATELLITE GRAVITY & LARGE-SCALE HYDROLOGY/STUDENT: SEAN SWENSON
 08/17/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: J WAHR
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 50337 UNIV OF COLORADO - BOULDER 3252
 ASTROBIOLOGICAL AND GEOLOGICAL IMPLICATIONS OF DIAPYCNIC TRANSPORT WITHIN EUROPA AND GANYMEDE
 05/04/2001 - 06/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: R RAPPALARDO
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50340 UNIV OF COLORADO - BOULDER 3253
 A NARROW BAND FAR ULTRAVIOLET IMAGING SPECTROGRAPH FOR INTERSTELLAR SHOCKS (STUDENT: MATTHEW BEASLEY)
 05/14/2001 - 06/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: J GREEN
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50341 UNIV OF COLORADO - BOULDER 3254
 NEW METHODS FOR HYPERSPECTRAL IMAGING IN THE VACUUM ULTRAVIOLET STUDENT: NATHANIEL CUNNINGHAM
 05/14/2001 - 07/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: J GREEN
Tech. Officer: GSFC/K E BLANDING
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50345 UNIV OF COLORADO - BOULDER 3255
 ELECTROSTATIC DISCHARGES NEAR THE MARIAN SURFACE (STUDENT: CORINNE KRAUSS)
 05/14/2001 - 07/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: M HORANYI
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50350 UNIV OF COLORADO - BOULDER 3256
 NUMERICAL ALGORITHMS FOR ALGORITHMS COMPUTING STUDENT: JULIA ZUEV
 05/08/2001 - 06/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: E ZWEIBEL
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50352 UNIV OF COLORADO - BOULDER 3257
 PLANETARY-SCALE WAVES AND IONOSPHERE 'WEATHER' (STUDENT: GILBERT LICHSTEIN)
 05/09/2001 - 06/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: J FORBES
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 9 22 UNIV OF COLORADO - BOULDER 3258
 REMOTELY DETERMINING MATERIAL TYPE OF ORBITAL DEB
 05/30/1997 - 06/30/2000 FY01: -\$5 Total: \$65,995
Prin. Invest.: L NELSON
Tech. Officer: JSC/D G SICKOREZ
CASE Category: 49 - ENGINEERING, OTHER

NGT10 52624 UNIV OF COLORADO - BOULDER 3259
 GRADUATE STUDENT RESEARCH PROGRAM GRADUATE STUDENT RESEARCH PROGRAM
 07/19/2000 - 07/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: D HOEHN
Tech. Officer: KSC/R WHEELER
CASE Category: 41 - AERONAUTICAL ENGR

NAG 5 10521 UNIV OF COLORADO - DENVER 3260
 IONOSPHERIC ELECTRODYNAMICS OF PLANETARY-SCALE OSCILLATIONS
 03/03/2001 - 04/30/2002 FY01: \$37,000 Total: \$37,000
Prin. Invest.: J M FORBES
Tech. Officer: GSFC/M MELLOTT
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 2 1176 UNIV OF COLORADO AT COLORADO SPRINGS 3261
 DEVELOPMENT OF THE PSUEDO PILOTED AIRCRAFT SIMULAT ION (PPAS)
 05/05/2000 - 12/31/2001 FY01: \$125,979 Total: \$165,979
Prin. Invest.: P J GORDOR
Tech. Officer: ARC/T F ROMER
CASE Category: 41 - AERONAUTICAL ENGR

NAG 2 1297 UNIV OF DENVER 3262
 IN SITU AEROSOL SIZE DISTRIBUTION MEASUREMENTS FROM THE ER-2 SAGE III VALIDATION & STUDIES OF OZONE
 03/09/1999 - 03/31/2002 FY01: \$200,824 Total: \$647,824
Prin. Invest.: J C WILSON
Tech. Officer: ARC/E P CONDON, ARC/R S HIPSKIND
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 2 1301 UNIV OF DENVER 3263
 MEASUREMENTS OF PARTICLE SIZE DISTRIBUTIONS FROM 4 -2000NM DIAMETER ON THE DC-8 FOR THE SAGE III OZO
 03/06/1999 - 01/14/2001 FY01: -\$1,509 Total: \$96,052
Prin. Invest.: J M REEVES, J C WILSON
Tech. Officer: ARC/E P CONDON, ARC/R S HIPSKIND
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 2 1391 UNIV OF DENVER 3264
 INFRARED REMOTE SENSING OF ATMOSPHERIC CONSTITUENT S
 01/19/2000 - 12/31/2002 FY01: \$427,143 Total: \$804,271
Prin. Invest.: F MURCRAY
Tech. Officer: ARC/E CONDON
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 3386 UNIV OF DENVER 3265
 CALIBRATION AND SCIENTIFIC SUPPORT OF LENA FOR THE IMAGE SATELLITE PROGRAM
 09/04/1996 - 07/31/2000 FY01: \$0 Total: \$264,598
Prin. Invest.: T A STEPHEN
Tech. Officer: GSFC/M SMITH
CASE Category: 11 - ASTRONOMY

NAG 5 6467 **UNIV OF DENVER** **3266**
 NEAR IR BALLOON-BORNE MEASUREMENTS IN SUPPORT OF S AGE III
 AND MOPITT
 11/12/1997 - 09/30/2000 FY01: \$0 Total: \$161,254
Prin. Invest.: F J MURCRAY
Tech. Officer: GSFC/D O STARR
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 6679 **UNIV OF DENVER** **3267**
 GROUND BASED FTIR SOLAR SPECTRAL MEASUREMENTS IN S UPPORT
 OF MOPITT & SAGE III
 12/12/1997 - 12/31/2001 FY01: \$0 Total: \$179,938
Prin. Invest.: F J MURCRAY
Tech. Officer: GSFC/D O STARR
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAS 1 96017 **UNIV OF DENVER** **3268**
 COMPARISON OF INSITU AEROSOL SIZE DISTRIBUTIONS ACQUIRED IN THE
 UPPER TROPOSPHERE AND LOWER
 08/02/1996 - 08/08/2000 FY01: \$0 Total: \$71,000
Prin. Invest.: J C WILSON
Tech. Officer: LARC/G MADDREA
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 1 313 **UNIV OF DENVER** **3269**
 ANALYSIS OF ATMOSPHERIC MEASUREMENTS IN SUPPORT OF THE
 NETWORK FOR THE DETECTION OF STRATOSPHERIC CH
 07/22/1998 - 09/30/2001 FY01: \$2 Total: \$20,988
Prin. Invest.: F J MURCRAY
Tech. Officer: LARC/C P RINSLAND
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 1 365 **UNIV OF DENVER** **3270**
 COLLABORATIVE STUDY FOR ANALYSIS OF HI RESOLUTION INFRARED
 ATMOSPHERIC SPECTRA BETW LARC & U DENVER
 01/10/2000 - 11/30/2001 FY01: \$53,000 Total: \$105,000
Prin. Invest.: A GOLDMAN
Tech. Officer: LARC/C P RINSLAND
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 1 01061 **UNIV OF DENVER** **3271**
 COLLABORATIVE STUDY FOR ANALYSIS OF HI RESOLUTION INFRARED
 ATMOSPHERIC SPECTRA BETW LARC & U DENVER
 09/10/2001 - 09/14/2003 FY01: \$54,000 Total: \$54,000
Prin. Invest.: A GOLDMAN
Tech. Officer: LARC/C P RINSLAND
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 5 506 **UNIV OF DENVER** **3272**
 "THE LENA INSTRUMENT ABOARD THE IMAGE SATELLITE"
 07/20/2000 - 07/31/2002 FY01: \$31,000 Total: \$51,006
Prin. Invest.: T M STEPHEN
Tech. Officer: GSFC/T MOORE
CASE Category: 11 - ASTRONOMY

NCC 8 176 **UNIV OF DENVER** **3273**
 INTERNATIONAL SPACE STATION METEOROID/ORBITAL DEBRIS HAZARD
 ASSESSMENT AND SOFTWARE DEVELOPMENT.
 12/22/1998 - 12/21/2001 FY01: \$171,029 Total: \$653,740
Prin. Invest.: J E WILLIAMSEN
Tech. Officer: MSFC/G D OLSEN
CASE Category: 42 - ASTRONAUTICAL ENGR

NGT 8 52894 **UNIV OF DENVER** **3274**
 TEMPERATURE EFFECTS ON METEOROID DEBRIS PROTECTIVE STRUC-
 TURES
 08/29/2000 - 08/31/2003 FY01: \$22,000 Total: \$44,000
Prin. Invest.: R AMME
Tech. Officer: MSFC/S NASH-STEVENSON
CASE Category: 11 - ASTRONOMY

NAG 9 1257 **UNIV OF SOUTHERN COLORADO** **3275**
 DEVELOPMENT OF MULTI CHANNEL HIGH FEQUENCY QRS ELECRO-
 CARDIO GRAPH
 08/25/2000 - 05/25/2001 FY01: \$0 Total: \$15,000
Prin. Invest.: J DEPALMA
Tech. Officer: JSC/T T SCHLEGEL
CASE Category: 56 - MEDICL

NGT 1 52209 **UNIV OF SOUTHERN COLORADO** **3276**
 GRADUATE STUDENT RESEARCH PROGRAM (GSRP) YEAR 1
 05/25/1999 - 06/30/2001 FY01: \$1 Total: \$44,001
Prin. Invest.: L M GARRETT
Tech. Officer: LARC/A E MOTLEY, LARC/L D THOMAS
CASE Category: 41 - AERONAUTICAL ENGR

CONNECTICUT

NAG 5 8650 **FAIRFIELD UNIV** **3277**
 OPTIMIZING PERFORMANCE OF FAR-INFRARED PHOTOCONDUCTORS:
 NEW APPROACH FOR INTERPRETATION & CALIBRAT
 07/29/1999 - 01/31/2002 FY01: \$0 Total: \$151,146
Prin. Invest.: N HAEGEL
Tech. Officer: GSFC/G MUCKLOW
CASE Category: 11 - ASTRONOMY

NAG 5 8048 **TRINITY COLLEGE** **3278**
 RETRIEVAL OF JOVIAN ATMOSPHERIC STRUCTURE FROM GAL ILEO NIMS
 01/14/1999 - 06/30/2001 FY01: \$0 Total: \$47,205
Prin. Invest.: D WEIR
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 - ASTRONOMY

NAG 2 1434 **UNIV. OF CONNECTICUT HEALTH CENTER** **3279**
 USE OF GFP TRANSGENES TO ASSESS OSTEOPROGENITOR PROGRES-
 SION IN INTACT BONE
 08/29/2000 - 08/31/2002 FY01: \$166,250 Total: \$253,750
Prin. Invest.: D W ROWE
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 5 6316 **UNIV. OF CONNECTICUT HEALTH CENTER** **3280**
 TRANSGENIC MARKERS OF BONE CELL LINEAGE PROGRESSIO
 09/29/1997 - 03/31/2001 FY01: \$0 Total: \$369,456
Prin. Invest.: D ROWE
Tech. Officer: GSFC/M AVERNER
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 1 01113 **UNIV OF CONNECTICUT** **3281**
 PREDICTIONS OF FATIGUE LIFE AND DELAMINATION IN LIGHTWEIGHT
 AEROSPACE COMPONENTS
 08/16/2001 - 08/31/2003 FY01: \$17,000 Total: \$17,000
Prin. Invest.: K D MURPHY
Tech. Officer: LARC/J H ROBINSON
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 1870 UNIV OF CONNECTICUT 3282
 EVAPORATION, BOILING AND CONDENSATION ON/IN CAPILA RY SRUC-
 INSTRURES OF HIGH HEAT FLUX TWO-PHASE DEVICES
 05/09/1996 - 05/31/2001 FY01: \$0 Total: \$360,000
Prin. Invest.: A FAGHRI
Tech. Officer: GRC/B S SINGH
CASE Category: 46 - MECHANICAL ENGR

NAG 5 7654 UNIV OF CONNECTICUT 3283
 ECOPHYSIOLOGY OF SUBPOPULATIONS OF ALEXANDRIUM TAM ARENSE
 08/25/1998 - 08/31/2001 FY01: \$0 Total: \$150,000
Prin. Invest.: C ROESLER
Tech. Officer: GSFC/J W MARRA
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7813 UNIV OF CONNECTICUT 3284
 CALIBRATION OF GROUND-BASED WEATHER RADAR SYSTEMS FROM
 TRMM SAPCE-BASED RADAR OBSERVATIONS: A DEMON
 11/12/1998 - 12/31/2000 FY01: \$0 Total: \$157,845
Prin. Invest.: E N ANAGNOSTOU
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7915 UNIV OF CONNECTICUT 3285
 DECIPHERING THE MOLECULAR RECORD OF EARLY EVOLUTIO N
 12/09/1998 - 07/31/2002 FY01: \$50,000 Total: \$147,100
Prin. Invest.: P J GOGARTEN
Tech. Officer: GSFC/M MEYER
CASE Category: 11 - ASTRONOMY

NAG 5 8602 UNIV OF CONNECTICUT 3286
 DEVELOPMENT OF PLANETARY REMOTE SENSING TECHNOLOGY FOR
 APPLICATIONS TO TELEFORENSICS
 06/21/1999 - 06/30/2002 FY01: \$119,120 Total: \$140,620
Prin. Invest.: J S SCHWEITZER
Tech. Officer: GSFC/J I TROMBKA
CASE Category: 11 - ASTRONOMY

NAG 5 8636 UNIV OF CONNECTICUT 3287
 UNDERSTANDING THE ERROR CHARACTERISTICS OF PRECIPI TATION
 ESTIMATES FROM SPACE-BASED OBSERVING SYSTE
 07/10/1999 - 09/30/2001 FY01: \$108,013 Total: \$232,441
Prin. Invest.: E N ANAGOSTOU
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9639 UNIV OF CONNECTICUT 3288
 INVESTIGATING THE ADEQUACY OF TRMM PRECIPITATION RADAR
 OBSERVATIONS FOR CALIBRATING GROUND-BASED WE
 06/02/2000 - 11/30/2001 FY01: \$162,207 Total: \$219,362
Prin. Invest.: E N ANAGNOSTOU
Tech. Officer: GSFC/R J LAWRENECE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 10599 UNIV OF CONNECTICUT 3289
 NASA PLANNING GRANT: LEARNING COMMUNITY OF TODAY & TOMORROW
 03/14/2001 - 06/15/2002 FY01: \$25,000 Total: \$25,000
Prin. Invest.: D MOSS
Tech. Officer: GSFC/M PHELPS
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 11143 UNIV OF CONNECTICUT 3290
 DEPLOYMENT OF A MOBILE POLARIMETRIC X-BAND RADAR & IN SITU
 INSTRUMENTATION TO SUPPORT QPE....STUDIES
 08/01/2001 - 07/31/2004 FY01: \$90,000 Total: \$90,000
Prin. Invest.: E N ANAGNOSTOU
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 11307 UNIV OF CONNECTICUT 3291
 CREATION OF AN EARTH GRANT GEOSPATIAL TECHNOLOGY E XTENSION
 PROGRAM(ENVIRONMENTAL RESEARCH INS
 08/30/2001 - 08/31/2004 FY01: \$25,000 Total: \$25,000
Prin. Invest.: D CIVCO
Tech. Officer: GSFC/E SHEFFNER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1428 UNIV OF CONNECTICUT 3292
 BOSE-EINSTEIN CONDENSATE AND ATOM LASER: COHERENCE AND
 OPTICAL PROPERTIES
 02/02/1998 - 01/31/2003 FY01: \$80,750 Total: \$256,750
Prin. Invest.: J JAVANAINEN
Tech. Officer: MSFC/D HUBBARD
CASE Category: 13 - PHYSICS

NAG 9 1243 UNIV OF CONNECTICUT 3293
 RESEARCH GRANT
 07/07/2000 - 09/01/2001 FY01: \$0 Total: \$21,998
Prin. Invest.: M MOREAU
Tech. Officer: JSC/F MARTIN, JSC/D SICKOREZ
CASE Category: 22 - COMPUTER SCIENCE

NAG13 99001 UNIV OF CONNECTICUT 3294
 BETTER LAND USE PLANNING FOR SUBUBANIZING NE, CREATING
 NETWORK OF GEOSPATIAL INFORMATION
 02/19/1999 - 02/18/2002 FY01: \$0 Total: \$1,099,576
Prin. Invest.: D CIVCO
Tech. Officer: SSC/C HILL
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 2 1067 UNIV OF CONNECTICUT 3295
 PRODUCTION & CONSUMPTION OF BIOGENCI GASES IN MICR OBIAL MATS
 07/17/2000 - 09/30/2002 FY01: \$41,667 Total: \$150,026
Prin. Invest.: P T VISSCHER
Tech. Officer: ARC/B M BEBOUT, ARC/D J DES MARIAS
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NCC 3 789 UNIV OF CONNECTICUT 3296
 HEAT TRANSFER IN ROTATING THIN LIQUID FILMS INCLUD ING NUCLEATE
 BOILING
 04/07/2000 - 11/30/2003 FY01: \$95,000 Total: \$135,000
Prin. Invest.: D FAGHRI
Tech. Officer: GRC/F P CHIARAMONTE
CASE Category: 49 - ENGINEERING, OTHER

NGT 1 01025 UNIV OF CONNECTICUT 3297
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) MY 1/3
 06/22/2001 - 06/30/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: K D MURPHY
Tech. Officer: LARC/W K BELVIN
CASE Category: 42 - ASTRONAUTICAL ENGR

NGT 5 82 UNIV OF CONNECTICUT 3298
 PREDICTING THE DISTRIBUTION OF BIODIVERSITY: INTE GRATING
 REMOTE SENSING TECHNOLOGY ANDFIELD-BASED
 05/11/1999 - 07/31/2001 FY01: \$0 Total: \$44,000
Prin. Invest.: R COLWELL
Tech. Officer: GSFC/M S BURRELL
CASE Category: 54 - ENVIRONMENTAL BIOLOGY

NGT 5 30369 UNIV OF CONNECTICUT 3299
 INVESTIGATION OF CONTINUOUS THUNDERSTORM MONITORIN G OVER
 LARGE REGIONS USING SATELLITEINFARED OBS
 08/13/2001 - 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: E ANAGNOSTOU
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 390 UNIV OF HARTFORD 3300
 NASA EPSCOR: PREPARATORY GRANT PROPOSAL
 05/13/1999 - 08/31/2001 FY01: \$0 Total: \$450,000
Prin. Invest.: S TOWNSEND
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40031 UNIV OF HARTFORD 3301
 NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA
 12/30/1996 - 02/28/2001 FY01: \$0 Total: \$807,500
Prin. Invest.: S L TOWNSEND
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40093 UNIV OF HARTFORD 3302
 CONNECTICUT SPACE GRANT COLLEGE AND FELLOWSHIP PRO GRAM
 02/28/2001 - 02/28/2002 FY01: \$212,500 Total: \$212,500
Prin. Invest.: S TOWNSEND
Tech. Officer: GSFC/D D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 4821 WESLEYAN UNIV 3303
 PHOTOMETRIC STUDIES OF T TAURI STARS
 06/18/1997 - 05/31/2002 FY01: \$54,000 Total: \$254,400
Prin. Invest.: D HERBST
Tech. Officer: GSFC/D NAVA
CASE Category: 11 - ASTRONOMY

NAG 5 9064 WESLEYAN UNIV 3304
 MEASURING THE GALACTIC POTENTIAL WITH NASA'S SPACE INTERFER-
 OMETRY MISSION - LTSA 99
 02/29/2000 - 02/14/2002 FY01: \$32,310 Total: \$77,480
Prin. Invest.: K V JOHNSTON
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 21 - MATHEMATICS

NAG 2 948 YALE UNIV 3305
 SYNAPTOGENESIS IN MICROGRAVITY
 12/20/1994 - 08/31/2001 FY01: \$0 Total: \$672,933
Prin. Invest.: H S KESHISHIAN
Tech. Officer: ARC/D REISS-BUBENHEIM, ARC/W E HINDS
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 2 1433 YALE UNIV 3306
 EFFECTS OF SPACE FLIGHT ON DROSOPHILA NEURAL DEVEL OPMENT
 08/29/2000 - 09/30/2001 FY01: \$28,195 Total: \$209,415
Prin. Invest.: H S KESHISHIAN
Tech. Officer: ARC/D R BUBENHEIM, ARC/M F VASQUEZ
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 2 1504 YALE UNIV 3307
 MECHANISMS OF GRAVITY-EVOKED NEURONAL PLASTICITY
 07/16/2001 - 09/30/2002 FY01: \$75,000 Total: \$75,000
Prin. Invest.: R G KALB
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 3 1935 YALE UNIV 3308
 RHEOLOGY OF CONCENTRATED EMULSIONS
 08/05/1996 - 05/31/2001 FY01: \$0 Total: \$470,000
Prin. Invest.: M LOEWENBERG
Tech. Officer: GRC/B SINGH
CASE Category: 43 - CHEMICAL ENGR

NAG 3 1939 YALE UNIV 3309
 COMPUTATIONAL & EXPERIMENTAL STUDY OF LAMINAR DIFF USION
 FLAMES IN A MICROGRAVITY ENVIRONMENT
 08/05/1996 - 11/30/2000 FY01: \$0 Total: \$444,000
Prin. Invest.: M B LONG, M D SMOOKE
Tech. Officer: GRC/K J WEILAND, GRC/H D ROSS
CASE Category: 46 - MECHANICAL ENGR

NAG 3 1951 YALE UNIV 3310
 DESING/INTERPRETATION OF MICROGRAVITY EXPERIMENT T O OBTAIN
 FLUID/SOLID BOUNDARY CONDITIONS IN NON-I
 08/14/1996 - 12/31/2001 FY01: \$0 Total: \$400,000
Prin. Invest.: D E ROSNER
Tech. Officer: GRC/B S SINGH
CASE Category: 43 - CHEMICAL ENGR

NAG 3 2262 YALE UNIV 3311
 COMPUTATIONAL AND EXPERIMENTAL STUDY OF ENERGETIC MATERIALS
 IN A COUNTERFLOW MICROGRAVITY ENVIRONMEN
 04/27/1999 - 04/06/2003 FY01: \$77,773 Total: \$204,910
Prin. Invest.: M D SMOOKE
Tech. Officer: GRC/D L URBAN
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2377 YALE UNIV 3312
 STUDIES OF THE DYNAMIC CONTROL AND EVAPORATION OF THREE
 DIMENSIONAL DROPLET ARRAYS
 04/07/2000 - 11/30/2003 FY01: \$92,000 Total: \$142,000
Prin. Invest.: R E APFEL
Tech. Officer: GRC/R ROGERS
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2425 YALE UNIV 3313
 EFFECT OF STRUCTURE - DEPENDENT INTERACTIONS ON TH E FORMA-
 TION OF COLLOIDAL AGGREGATES AND NUCLEI
 05/17/2000 - 06/30/2001 FY01: -\$6,842 Total: \$43,158
Prin. Invest.: D L GRANT
Tech. Officer: GRC/B MOTIL
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2477 **YALE UNIV** **3314**
 FLOWS OF WET FOAMS AND CONCENTRATED EMULSIONS FLOWS OF WET
 FOAMS AND CONCENTRATED EMULSIONS
 07/24/2000 - 11/30/2003 FY01: \$76,000 Total: \$176,000
Prin. Invest.: D LOEWENBERG
Tech. Officer: GRC/F P CHIARAMONTE
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 3853 **YALE UNIV** **3315**
 CLIMATE CHANGE AND HUMAN RESPONSE IN THE SEMI-ARID
 (148-65-80-27)
 12/16/1996 - 07/31/2000 FY01: \$0 Total: \$1,195,852
Prin. Invest.: R B SMITH
Tech. Officer: GSFC/A J TUYAHOV
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 5255 **YALE UNIV** **3316**
 X-RAY SINGLE-PHOTON SPECTROMETERS X-RAY SINGLE-PHOTON
 SPECTROMETERS
 02/18/2000 - 02/03/2003 FY01: \$175,000 Total: \$340,000
Prin. Invest.: D E PROBER
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 - PHYSICS

NAG 5 6404 **YALE UNIV** **3317**
 OBSERVATIONAL STUDIES OF DYNAMICAL EFFECTS IN GLOBULAR CLUS-
 TERS
 11/04/1997 - 08/31/2001 FY01: \$111,640 Total: \$424,000
Prin. Invest.: C BAILYN
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 7074 **YALE UNIV** **3318**
 STAR FORMATION IN THE EARLY UNIVERSE-ATP
 03/03/1998 - 02/14/2002 FY01: \$0 Total: \$277,032
Prin. Invest.: P COPPI
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8406 **YALE UNIV** **3319**
 MODELING CONVECTION IN STARS; IMPROVING STELLAR MODELS FOR
 STELLAR POPULATION SYNTHESIS (ATP-
 03/15/1999 - 03/14/2002 FY01: \$186,864 Total: \$298,261
Prin. Invest.: P F DEMARQUE
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8589 **YALE UNIV** **3320**
 PHOTON-COUNTING DETECTORS FOR SUBMILLIMETER IMAGING AND
 SPECTROSCOPY.
 07/08/1999 - 07/14/2001 FY01: \$0 Total: \$505,559
Prin. Invest.: R J SCHOELKOPF
Tech. Officer: GSFC/G MUCKLOW
CASE Category: 11 - ASTRONOMY

NAG 5 8813 **YALE UNIV** **3321**
 FROM RNA TO CONTEMPORARY METABOLISM: THE M1 RIBOZYME AS A
 MODEL SYSTEM
 09/23/1999 - 08/31/2001 FY01: \$70,000 Total: \$140,000
Prin. Invest.: R L DORIT
Tech. Officer: GSFC/M MEYER
CASE Category: 11 - ASTRONOMY

NAG 5 9123 **YALE UNIV** **3322**
 ANALYSIS OF NEW & ARCHIVAL DATA TO STUDY & CHARACTERIZE RAPID
 X-RAY VARIABILITY IN BLAZARS - ADP 99
 03/28/2000 - 03/31/2001 FY01: \$0 Total: \$43,548
Prin. Invest.: P COPPI
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9168 **YALE UNIV** **3323**
 GLOBULAR CLUSTER FORMATION (ATP 99_)
 03/27/2000 - 03/31/2002 FY01: \$103,267 Total: \$205,430
Prin. Invest.: S ZEPF
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9316 **YALE UNIV** **3324**
 LANDSCAPE CHANGES IN THE MIDDLE EAST: A REGIONAL ASSESSMENT
 USING REMOTE SENSING
 03/28/2000 - 03/31/2002 FY01: \$385,000 Total: \$635,000
Prin. Invest.: R SMITH
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9437 **YALE UNIV** **3325**
 CHARACTERIZATION OF HUMID-FOREST & SAVANNA ECO-REGIONS OF
 WEST & CENTRAL AFRICA USING SATELLITE SENSORS
 04/13/2000 - 04/30/2002 FY01: \$197,558 Total: \$329,573
Prin. Invest.: M ASHTON
Tech. Officer: GSFC/J DODGE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9554 **YALE UNIV** **3326**
 RNA MODIFYING ENZYMES: DETERMINANTS OF DESIGN AND EVOLUTION
 OF BIOLOGICAL INFORMATION PROCESSING
 05/04/2000 - 04/30/2001 FY01: \$0 Total: \$103,620
Prin. Invest.: D SOLL
Tech. Officer: GSFC/M MEYER
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 5 9595 **YALE UNIV** **3327**
 SINGLE-PHOTON DETECTORS WITH RF-SINGLE-ELECTRON TRAN-
 SISTOR READOUTS FOR VISIBLE-THRU-UV
 06/09/2000 - 06/30/2001 FY01: \$0 Total: \$100,000
Prin. Invest.: D E PROBER
Tech. Officer: GSFC/C STAHL
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 9651 **YALE UNIV** **3328**
 THE FORMATION AND EVOLUTION OF GLOBULAR CLUSTER SYSTEMS AND
 IMPLICATIONS FOR THE FORMATION HISTORY
 06/22/2000 - 06/14/2002 FY01: \$117,520 Total: \$231,620
Prin. Invest.: S ZEPF
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9839 **YALE UNIV** **3329**
 INVESTIGATIONS OF THE TROPICAL TROPOPAUSE REGION
 11/16/2000 - 12/31/2001 FY01: \$126,276 Total: \$126,276
Prin. Invest.: S SHERWOOD
Tech. Officer: GSFC/M R SCHOEBERL
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 10439 **YALE UNIV** **3330**
 DEVELOPMENT OF AN ATOM INTERFEROMETER GRAVITY GRAD IOMETER
 FOR SPACE FLIGHT, PROPOSAL 1258
 03/13/2001 - 03/14/2002 FY01: \$281,175 Total: \$281,175
Prin. Invest.: P KASEVICH
Tech. Officer: GSFC/N J DENNEHY
CASE Category: 13 - PHYSICS

NAG 5 10755 **YALE UNIV** **3331**
 FABRICATION AND CHARACTERIZATION OF SUBMILLIMETER SINGLE-
 PHONON COUNTERS
 04/20/2001 - 04/30/2002 FY01: \$175,000 Total: \$175,000
Prin. Invest.: R J SCHOELKOPF, NONE
Tech. Officer: GSFC/F HERRERO
CASE Category: 13 - PHYSICS

NAG 5 10912 **YALE UNIV** **3332**
 RING-DIAGRAM ANALYSIS OF THE SOLAR SURFACE LAYERS
 05/14/2001 - 05/31/2002 FY01: \$57,221 Total: \$57,221
Prin. Invest.: S BASU
Tech. Officer: GSFC/J GURMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 11335 **YALE UNIV** **3333**
 CHANGES INFLUENCE OF HUMANS, CLIMATE, AND FIRE ON FOREST
 ECOSYSTEMS AND CARBON DYNAMICS IN INDONESIA
 09/06/2001 - 09/14/2004 FY01: \$253,107 Total: \$253,107
Prin. Invest.: L M CURRAN
Tech. Officer: GSFC/G GUTMAN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1351 **YALE UNIV** **3334**
 NOVEL CONCEPTS IN ACOUSTOPHORESIS FOR BIO- TECHNOLOGY
 APPLICATIONS UNDER DIRECTION DR. APFEL
 05/23/1997 - 09/30/2001 FY01: \$0 Total: \$248,000
Prin. Invest.: R E APFEL
Tech. Officer: MSFC/B GUYNES, MSFC/J MAYO
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 8 1443 **YALE UNIV** **3335**
 R/S ATOM INTERFEROMETRY IN A MICROGRAVITY ENVIRONMENT
 02/06/1998 - 01/31/2003 FY01: \$95,000 Total: \$370,000
Prin. Invest.: M A KASEVICH
Tech. Officer: MSFC/D HUBBARD
CASE Category: 13 - PHYSICS

NAG 8 1449 **YALE UNIV** **3336**
 INVESTIGATION OF FUTURE MICROGRAVITY ATOMIC CLOCKS
 03/09/1998 - 03/01/2003 FY01: \$190,000 Total: \$740,000
Prin. Invest.: K GIBBLE
Tech. Officer: MSFC/D HUBBARD
CASE Category: 13 - PHYSICS

NAG 8 1461 **YALE UNIV** **3337**
 NUCLEATION AND GROWTH MECHANISMS UNDERLYING THE MICRO-
 STRUCTURE OF POLYMER FOAMS PRODUCED
 02/18/1998 - 01/31/2002 FY01: \$145,000 Total: \$358,333
Prin. Invest.: R E APFEL, D WU
Tech. Officer: MSFC/C TALLEY
CASE Category: 13 - PHYSICS

NAG 8 1767 **YALE UNIV** **3338**
 ATOM INTERFEROMETER TEST OF THE EQUIVALENCE PRINCIPLE
 05/14/2001 - 05/13/2005 FY01: \$150,000 Total: \$150,000
Prin. Invest.: M A KASEVICH, L MALEKI
Tech. Officer: MSFC/D HUBBARD
CASE Category: 13 - PHYSICS

NCC 2 1229 **YALE UNIV** **3339**
 DOMAIN-SPECIFIC SELF-ADAPTIVE SOFTWARE
 03/26/2001 - 11/30/2001 FY01: \$50,000 Total: \$50,000
Prin. Invest.: P HUDAK
Tech. Officer: ARC/R MORRIS
CASE Category: 22 - COMPUTER SCIENCE

NCC 3 691 **YALE UNIV** **3340**
 COMBUSTION OF INDIVIDUAL BUBBLES AND SUBMERGED GAS JETS IN
 LIQUID FUELS
 03/24/1999 - 01/11/2003 FY01: \$125,700 Total: \$303,700
Prin. Invest.: D E ROSNER
Tech. Officer: GRC/K SACKSTEDER
CASE Category: 49 - ENGINEERING, OTHER

NGT 3 52347 **YALE UNIV** **3341**
 RHEOLOGY AND STATISTICAL MICROSTRUCTURE OF CONCENTRATED
 EMULSIONS AND FOAMS
 08/11/1998 - 07/01/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: M LOEWENBERG
Tech. Officer: GRC/F MONTEGANI
CASE Category: 43 - CHEMICAL ENGR

NGT 5 121 **YALE UNIV** **3342**
 NOISE & SENSITIVITY OF SQPC SUBMILLIMETER DETECTORS/STUDENT:
 JOHN D. TEUFEL
 05/31/2001 - 06/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: D SCHOELKOPF
Tech. Officer: GSFC/M S BURRELL
CASE Category: 13 - PHYSICS

NGT 5 30371 **YALE UNIV** **3343**
 ENVIRONMENTAL ASSESSMENT OF HUMAN HEALTH RISK: SPATIAL AND
 TEMPORAL MODELS OF LYME DISEASE
 08/14/2001 - 08/31/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: D FISH
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50042 **YALE UNIV** **3344**
 TERAHERTZ SUPERCONDUCTING HETERODYNE RECEIVERS
 08/04/1997 - 06/30/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: PROBER
Tech. Officer: HQ/A NURRIDIN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50067 **YALE UNIV** **3345**
 SPACE BASED LASER-COOLED ATOMIC CLOCKS
 08/26/1997 - 06/30/2001 FY01: \$0 Total: \$65,060
Prin. Invest.: K GIBBLE
Tech. Officer: HQ/A NURRIDIN
CASE Category: 41 - AERONAUTICAL ENGR

NGT 5 50287 **YALE UNIV** **3346**
 GLOBAL CLUSTER SYSTEMS AS PROBES OF GALAXY FORMATION
 (STUDENT: KATHERINE RHODE)
 06/22/2000 – 06/30/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: C E BAILY
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

DELAWARE

NAG 1 2030 **DELAWARE STATE UNIV** **3347**
 INVESTIGATION OF OPTICAL PHASE DISTORTIONS IN SOLID STATE
 PULSED LASER AMPLIFIER
 03/23/1998 – 12/31/2001 FY01: \$0 Total: \$297,207
Prin. Invest.: N MELIKECHI
Tech. Officer: LARC/W C EDWARDS, LARC/N P BANRES
CASE Category: 13 – PHYSICS

NAG 5 8240 **DELAWARE STATE UNIV** **3348**
 DELAWARE STATE UNIV CENTER FOR EXCELLENCE IN MATHEMATICS,
 SCIENCE, AND TECHNOLOGY
 02/19/1999 – 02/28/2002 FY01: \$100,000 Total: \$299,998
Prin. Invest.: G OFOSU
Tech. Officer: GSFC/D MENCHAN
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 3 1920 **UNIV OF DELAWARE** **3349**
 FREE-SURFACE AND CONTACT-LINE MOTION OF LIQUIDS IN A
 MICROGRAVITY ENVIRONMENT
 07/07/1996 – 07/10/2001 FY01: \$0 Total: \$355,000
Prin. Invest.: L W SCHWARTZ
Tech. Officer: GRC/M W WEISLOGEL
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1955 **UNIV OF DELAWARE** **3350**
 SURFACANT-BASED CRITICAL PHENOMENA IN MICROGRAVITY
 08/19/1996 – 08/31/2001 FY01: \$0 Total: \$241,500
Prin. Invest.: E W KALER, M E PAULATIS
Tech. Officer: GRC/B S SINGH
CASE Category: 43 – CHEMICAL ENGR

NAG 5 4829 **UNIV OF DELAWARE** **3351**
 AN INTEGRATED SYSTEM FOR WATER BUDGET CLOSURE OVER MASS: A
 TRMM VALIDATION EFFORT
 07/03/1997 – 06/30/2001 FY01: \$0 Total: \$160,000
Prin. Invest.: C J WILLMOTT
Tech. Officer: GSFC/O W THIELE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 5181 **UNIV OF DELAWARE** **3352**
 PROTON/ANTI-PROTON RATIO AS A PROBE OF SOLAR MODULATION
 03/26/1998 – 08/31/2001 FY01: \$0 Total: \$201,604
Prin. Invest.: T K GAISSER
Tech. Officer: GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 5221 **UNIV OF DELAWARE** **3353**
 GRANT NAG5-5221 BALLOON AIR CHERENKOV (BACH) PI PROF PAUL
 EVENSON
 03/16/1999 – 03/11/2004 FY01: \$0 Total: \$475,000
Prin. Invest.: P A EVENSON
Tech. Officer: GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 6553 **UNIV OF DELAWARE** **3354**
 THE INFLUENCE OF COUPLING WITH THE IONOSPHERE AND
 ATMOSPHERE ON ROTATIONAL DYNAMICS IN THE JOVIAN MA
 10/17/1997 – 08/31/2000 FY01: \$0 Total: \$120,992
Prin. Invest.: D PONTIUS
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 7009 **UNIV OF DELAWARE** **3355**
 NATURE AND ORIGIN OF THE HIGHEST ENERGY COSMIC RAY S – ATP
 02/12/1998 – 02/14/2002 FY01: \$0 Total: \$293,484
Prin. Invest.: T STANOV
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 7949 **UNIV OF DELAWARE** **3356**
 APPLICATION OF SATELLITE ALTIMETER DATA TO STUDIES OF OCEAN
 SURFACE HEATFLUX AND UPPER OCEAN THERMA
 12/23/1998 – 12/14/2001 FY01: \$80,000 Total: \$225,000
Prin. Invest.: X YAN
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 8556 **UNIV OF DELAWARE** **3357**
 A DATA COORDINATOR FOR CLIVAR AND G30S
 06/23/1999 – 06/30/2001 FY01: \$0 Total: \$125,242
Prin. Invest.: F WEBSTER
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 8696 **UNIV OF DELAWARE** **3358**
 OBSERVATIONAL STUDIES OF THE SOLAR CORONA
 08/17/1999 – 12/31/2000 FY01: \$0 Total: \$25,030
Prin. Invest.: D R WEBSTER
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 11 – ASTRONOMY

NAG 5 9116 **UNIV OF DELAWARE** **3359**
 MARS GLOBAL SURVEYOR DATA ANALYSIS AND INTERPRETATION
 02/28/2000 – 02/28/2002 FY01: \$0 Total: \$20,000
Prin. Invest.: N F NESS
Tech. Officer: GSFC/M H ACUNA
CASE Category: 13 – PHYSICS

NAG 5 10416 **UNIV OF DELAWARE** **3360**
 LMC 1995, THE THIRD SUPERSOFT X-RAY NOVA
 02/22/2001 – 02/28/2002 FY01: \$5,000 Total: \$5,000
Prin. Invest.: J MCDONALD
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 – ASTRONOMY

NAG 5 10911 UNIV OF DELAWARE 3361
 COMPARATIVE STUDY OF INTERPLANETARY MAGNETIC FIELD TURBULENCE
 05/11/2001 - 05/31/2002 FY01: \$91,560 Total: \$91,560
Prin. Invest.: C W SMITH
Tech. Officer: GSFC/J GURMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 10919 UNIV OF DELAWARE 3362
 HIGHEST ENERGY COSMIC RAYS
 05/17/2001 - 05/31/2002 FY01: \$90,000 Total: \$90,000
Prin. Invest.: T STANLEY
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 11006 UNIV OF DELAWARE 3363
 HEATING OF THE LOWER CORONA: TRANSPORT, CASCADE & RECONNECTION
 06/05/2001 - 05/31/2002 FY01: \$31,000 Total: \$31,000
Prin. Invest.: W H MATHAEUS
Tech. Officer: GSFC/W WAGNER
CASE Category: 11 - ASTRONOMY

NAG 5 11095 UNIV OF DELAWARE 3364
 FUV DIAGNOSTICS OF STRUCTURE IN HOT-STAR WINDS (FUSE 1999)
 07/24/2001 - 07/31/2002 FY01: \$20,750 Total: \$20,750
Prin. Invest.: S P OWOCKI
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 11228 UNIV OF DELAWARE 3365
 MAGNETIC FIELDS ON OB STARS (ATP 2000)
 08/15/2001 - 08/14/2004 FY01: \$10,655 Total: \$10,655
Prin. Invest.: D MULLAN
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 11232 UNIV OF DELAWARE 3366
 THE SPACE INFORMATION NETWORKING ARCHITECTURE FOR FUTURE NASA SCIENCE MISSIONS
 08/15/2001 - 08/14/2002 FY01: \$30,000 Total: \$30,000
Prin. Invest.: C SHEN
Tech. Officer: GSFC/J RASH
CASE Category: 22 - COMPUTER SCIENCE

NAG 8 1346 UNIV OF DELAWARE 3367
 PROTEIN CRYSTALLIZATION IN COMPLEX FLUIDS
 05/23/1997 - 11/30/2001 FY01: \$0 Total: \$540,000
Prin. Invest.: E W KALER, D
Tech. Officer: MSFC/D SMITH
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1427 UNIV OF DELAWARE 3368
 DROPLETS OF 3HE-4HE MIXTURES
 02/11/1998 - 01/31/2003 FY01: \$95,000 Total: \$324,000
Prin. Invest.: S T CHUI
Tech. Officer: MSFC/J W POE
CASE Category: 13 - PHYSICS

NAG 9 989 UNIV OF DELAWARE 3369
 PROPOSAL TO DEVELOPE ASTRONAUT TRAINING
 02/08/1998 - 06/30/2002 FY01: \$0 Total: \$20,000
Prin. Invest.: V KLEMAS, Q ZHEN
Tech. Officer: JSC/S K RUNCO
CASE Category: 33 - OCEANOGRAPHY

NCC 3 784 UNIV OF DELAWARE 3370
 A PRELIMINARY INVESTIGATION OF THE E-BEAM INDUCED POLYMERIZATION OF MALEIMIDE AND NORBORNENE END-CAP
 03/14/2000 - 01/26/2001 FY01: -\$35,075 Total: \$819
Prin. Invest.: G R PALMESE
Tech. Officer: GRC/M A MEADOR
CASE Category: 12 - CHEMISTRY

NCC 3 843 UNIV OF DELAWARE 3371
 SOOT FORMATION IN PURELY-CURVED PREMIXED FLAMES AND LAMINAR FLAME SPEEDS OF SOOT-FORMING FLAMES
 12/28/2000 - 11/30/2004 FY01: \$30,000 Total: \$30,000
Prin. Invest.: D WANG
Tech. Officer: GRC/K R SACKSTER
CASE Category: 49 - ENGINEERING, OTHER

NGT 5 50367 UNIV OF DELAWARE 3372
 SENSOR DESIGN AND CONTROL FOR THE REAL-TIME OPTIMIZATION OF CULTURING CONDITIONS, ANALYSIS AND CONTROL
 06/12/2001 - 08/31/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: P DHUJATI
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 3530 UNIV OF DELAWARE - BARTOL RESEARCH INST 3373
 MULTI-SPECTRAL DIAGNOSTICS AND DYNAMICAL MODELLING STAR WINDS
 12/13/1996 - 11/30/2001 FY01: \$105,600 Total: \$489,078
Prin. Invest.: S P OWOCKI
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 4065 UNIV OF DELAWARE - BARTOL RESEARCH INST 3374
 RADIATION HYDRODYNAMICS OF INTERACTING WINDS IN MA
 03/26/1997 - 03/31/2001 FY01: \$0 Total: \$192,000
Prin. Invest.: K GAYLEY
Tech. Officer: GSFC/R K OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 5063 UNIV OF DELAWARE - BARTOL RESEARCH INST 3375
 BALLOON AIR CHERENKOV (BACH) MEASUREMENTS OF HIGH ENERGY COSMICRAY COMPOSITION
 05/03/1996 - 04/30/2000 FY01: \$0 Total: \$737,000
Prin. Invest.: P EVENSON
Prin. Invest.: NONE
Tech. Officer: GSFC/H NEEDLEMAN
CASE Category: 13 - PHYSICS

NAG 5 6061 UNIV OF DELAWARE - BARTOL RESEARCH INST 3376
 EXPERIMENTAL RESEARCH ON ANISOTROPY OF THE COSMIC BACKGROUND RADIATION FROM A BALLOON-BORNE PLATFORM
 08/01/1997 - 06/30/2000 FY01: \$0 Total: \$100,000
Prin. Invest.: PICCIRILLO
Tech. Officer: GSFC/R SILVERBERG
CASE Category: 11 - ASTRONOMY

NAG 5 6469 UNIV OF DELAWARE - BARTOL RESEARCH INST 3377
 USING ULYSSES OBSERVATIONS TO CONSTRAIN GLOBAL MODELS OF THE HELIOSPHERE
 10/31/1997 - 10/31/2001 FY01: \$0 Total: \$302,042
Prin. Invest.: G ZANK
Tech. Officer: GSFC/J LING
CASE Category: 11 - ASTRONOMY

NAG 5 6470 UNIV OF DELAWARE - BARTOL RESEARCH INST 3378
 ULYSSES-SWICS CONSTRAINTS ON NON-MAXWELLIAN ELECTRON DISTRIBUTIONS AND UNEQUAL ION FLOW SPEEDS IN A
 11/14/1997 - 10/31/2001 FY01: \$0 Total: \$165,275
Prin. Invest.: S OWOCKI
Tech. Officer: HQ/J LING
CASE Category: 11 - ASTRONOMY

NAG 5 6570 UNIV OF DELAWARE - BARTOL RESEARCH INST 3379
 INVESTIGATION OF INTERPLANETARY TURBULENCE AT HIGH LATITUDE USING THE ULYSSES SPACECRAFT
 11/13/1997 - 10/31/2001 FY01: \$0 Total: \$248,199
Prin. Invest.: C SMITH
Tech. Officer: HQ/J LING
CASE Category: 11 - ASTRONOMY

NAG 5 6905 UNIV OF DELAWARE - BARTOL RESEARCH INST 3380
 ORIGINS OF COOL STAR MASS LOSS: A UNIFIED AND EFFICIENT APPROACH TO ANALYZE FLUCTUATING WINDS
 02/09/1998 - 01/31/2000 FY01: \$0 Total: \$44,000
Prin. Invest.: D MULLAN
Tech. Officer: HQ/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 6969 UNIV OF DELAWARE - BARTOL RESEARCH INST 3381
 ENERGETIC PARTICLE PROCESSES IN THE HELIOSPHERE
 03/12/1998 - 10/31/2001 FY01: \$0 Total: \$276,500
Prin. Invest.: J A LE ROUX
Tech. Officer: GSFC/J LING
CASE Category: 11 - ASTRONOMY

NAG 5 7142 UNIV OF DELAWARE - BARTOL RESEARCH INST 3382
 TURBULENCE AND PARTICLE TRANSPORT IN SPACE PLASMAS
 03/23/1998 - 02/28/2002 FY01: \$0 Total: \$205,200
Prin. Invest.: J BIEBER
Tech. Officer: HQ/J LING
CASE Category: 11 - ASTRONOMY

NAG 5 7164 UNIV OF DELAWARE - BARTOL RESEARCH INST 3383
 TURBULENCE, RECONNECTION, AND HEATING IN THE LOWER CORONA
 03/13/1998 - 04/14/2002 FY01: \$42,394 Total: \$275,851
Prin. Invest.: W H MATTHAEUS
Tech. Officer: GSFC/W WAGNER
CASE Category: 11 - ASTRONOMY

NAG 5 7545 UNIV OF DELAWARE - BARTOL RESEARCH INST 3384
 EVALUATION OF SNOW WATER EQUIVALENT ACROSS GRASSLAND REGIONS
 06/22/1998 - 06/30/2001 FY01: \$0 Total: \$110,144
Prin. Invest.: D LEATHERS, W SHUTTLEWORTH
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 7796 UNIV OF DELAWARE - BARTOL RESEARCH INST 3385
 COMPOSITION AND ABUNDANCE RATIOS OF ANOMALOUS AND GALACTIC COSMIC RAYS: IMPLICATIONS OF ACE OBSERVATIONS
 12/14/1998 - 09/30/2001 FY01: \$85,000 Total: \$241,000
Prin. Invest.: G P ZANK
Tech. Officer: GSFC/D C LING
CASE Category: 11 - ASTRONOMY

NAG 5 8014 UNIV OF DELAWARE - BARTOL RESEARCH INST 3386
 GROUND-LEVEL SOLAR COSMIC RAY DATA FROM SOLAR CYCLE 19
 01/13/1999 - 12/31/2001 FY01: \$0 Total: \$22,500
Prin. Invest.: R PYLE
Tech. Officer: GSFC/J H BREDEKAMP
CASE Category: 11 - ASTRONOMY

NAG 5 8134 UNIV OF DELAWARE - BARTOL RESEARCH INST 3387
 RESEARCH IN "TURBULENCE AND TRANSPORT PROCESSES" THIS IS THE FIRST YEAR OF A 3-YEAR FUNDING CYCLE.
 02/04/1999 - 02/14/2002 FY01: \$222,605 Total: \$526,954
Prin. Invest.: W H MATTHAEUS
Tech. Officer: GSFC/J GREBOWSKY
CASE Category: 13 - PHYSICS

NAG 5 8827 UNIV OF DELAWARE - BARTOL RESEARCH INST 3388
 PARTICIPATION IN NASA-GSFC MAGNETOMETER EXPERIMENT ON MARS GLOBAL SURVEYOR
 09/07/1999 - 09/30/2002 FY01: \$0 Total: \$28,836
Prin. Invest.: N F NESS
Tech. Officer: GSFC/M H ACUNA
CASE Category: 13 - PHYSICS

NGT 5 40024 UNIV OF DELAWARE - BARTOL RESEARCH INST 3389
 NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
 12/19/1996 - 08/31/2001 FY01: -\$160,861 Total: \$805,201
Prin. Invest.: N F NESS
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40122 UNIV OF DELAWARE - BARTOL RESEARCH INST 3390
 DELAWARE SPACE GRANT COLLEGE & FELLOWSHIP PROGRAM
 03/26/2001 - 03/31/2002 FY01: \$409,423 Total: \$409,423
Prin. Invest.: N F NESS
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50167 UNIV OF DELAWARE - BARTOL RESEARCH INST 3391
 PROTEIN CRYSTALLIZATION OF BINARY MIXTURES
 07/08/1999 - 06/30/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: A M LENHOFF/TESSIER
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

DISTRICT OF COLUMBIA

NAG 1 1353 **GEORGE WASHINGTON UNIV** **3392**
 RESEARCH AND EDUCATION PROGRAM FOR NON-TRADITIONAL ENGI-
 NEERING STUDENTS IN THE JIAFS
 10/09/1991 – 11/30/1999 FY01: -\$1,771 Total: \$535,617
Prin. Invest.: J L WHITESIDES
Tech. Officer: LARC/R L YANG, LARC/E J PRIOR
CASE Category: 49 – ENGINEERING, OTHER

NAG 1 1972 **GEORGE WASHINGTON UNIV** **3393**
 A PROGRAM OF RESEARCH AND EDUCATION IN AERO-SPACE VEHICLE
 DESIGN, SYNTHESIS, AND OPTIMIZATION.
 10/31/1997 – 11/30/1999 FY01: -\$2,128 Total: \$350,434
Prin. Invest.: R R SANDUSKY
Tech. Officer: LARC/C V ECKSTROM
CASE Category: 41 – AERONAUTICALENGNR

NAG 2 1456 **GEORGE WASHINGTON UNIV** **3394**
 ADAPTIVE UNSTRUCTURED GRID PARALLEL BENCHMARK
 02/05/2001 – 01/31/2002 FY01: \$36,499 Total: \$36,499
Prin. Invest.: M MYERS
Tech. Officer: ARC/R BISWAS, ARC/J YAN
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 697 **GEORGE WASHINGTON UNIV** **3395**
 MATHEMATICAL MODELING OF ENERGY MINIMIZING OFF- DESIGN SHAPES
 OF LARGE SCIENTIFIC BALLOONS
 01/25/1993 – 11/30/2000 FY01: \$0 Total: \$572,414
Prin. Invest.: F BAGINSKI
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/I S SMITH
CASE Category: 21 – MATHEMATICS

NAG 5 3957 **GEORGE WASHINGTON UNIV** **3396**
 ENVIRONMENTAL SECURITY, SUSTAINABLE DEVELOPMENT, A GLOBAL
 OBSERVING STRATEGY
 03/03/1997 – 12/31/2000 FY01: \$0 Total: \$390,228
Prin. Invest.: D WILLIAMSON
Tech. Officer: GSFC/J GASCH
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 5292 **GEORGE WASHINGTON UNIV** **3397**
 THE SHAPE OF A DESCENDING BALLOON THE SHAPE OF A DESCENDING
 BALLOON
 06/14/2000 – 11/30/2001 FY01: \$0 Total: \$49,948
Prin. Invest.: F BAGINSKI
Tech. Officer: WFF/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 6081 **GEORGE WASHINGTON UNIV** **3398**
 STUDY OF VENUS NEUTRAL UPPER ATMOSPHERE USING MAGE
 08/11/1997 – 09/30/2000 FY01: \$0 Total: \$100,000
Prin. Invest.: D M KEATING
Tech. Officer: GSFC/S HOWARD
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 8068 **GEORGE WASHINGTON UNIV** **3399**
 IMPROVED NUMERICAL MODELING OF LOW-DENSITY ATMOSPHERIC
 FLOW ON IO
 01/29/1999 – 12/31/2001 FY01: \$31,231 Total: \$73,856
Prin. Invest.: D A LEVIN, NONE
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 – ASTRONOMY

NAG 5 8287 **GEORGE WASHINGTON UNIV** **3400**
 MARS GLOBAL SURVEYOR ACCELEROMETER EXPERIMENT: STUDY OF
 MARS THERMOSPHERE AND COUPLING
 02/22/1999 – 03/31/2002 FY01: \$72,000 Total: \$146,500
Prin. Invest.: G M KEATING
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 9550 **GEORGE WASHINGTON UNIV** **3401**
 PRECIPITATION STUDIES USING THE TRMM MICROWAVE LINK FACILITY
 05/30/2000 – 05/31/2002 FY01: \$93,000 Total: \$150,167
Prin. Invest.: R H LANG
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 10417 **GEORGE WASHINGTON UNIV** **3402**
 DETECTION OF GUNPOWDER RESIDUE USING X-RAY FLUORESCENCE
 AND ELECTRON MICROSCOPY.
 02/21/2001 – 02/28/2002 FY01: \$31,915 Total: \$31,915
Prin. Invest.: D A ROWLEY
Tech. Officer: GSFC/J I TROMBKA
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10539 **GEORGE WASHINGTON UNIV** **3403**
 SOCIOECONOMIC BENEFITS OF NASA'S EARTH SCIENCE AND APPLICA-
 TIONS RESEARCH. PROPOSAL, JAUP, C
 03/16/2001 – 03/14/2002 FY01: \$182,761 Total: \$182,761
Prin. Invest.: D A WILLIAMSON
Tech. Officer: GSFC/E TORREZ-MARTINEZ
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 11101 **GEORGE WASHINGTON UNIV** **3404**
 PARALLEL DIMENSION REDUCTION OF HYPERSPECTRAL DATA
 07/26/2001 – 07/31/2004 FY01: \$31,000 Total: \$31,000
Prin. Invest.: T EL-GHAZAWI
Tech. Officer: GSFC/J LE MOIGNE
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 11175 **GEORGE WASHINGTON UNIV** **3405**
 DATA ANALYSIS OF MGS ACCELEROMETER EXPERIMENT TO CHARACTERIZE
 THE MARS ATMOSPHERE AT AEROBRAKING A
 08/30/2001 – 08/14/2003 FY01: \$60,000 Total: \$60,000
Prin. Invest.: G KEATING
Tech. Officer: GSFC/J BOYCE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 11343 **GEORGE WASHINGTON UNIV** **3406**
 DEVELOPMENT OF INDIVIDUALLY ADDRESSABLE MICRO-MIRROR ARRAYS
 FOR SPACE APPLICATIONS
 09/27/2001 – 09/30/2002 FY01: \$53,686 Total: \$53,686
Prin. Invest.: M ZAGHLOUL
Tech. Officer: GSFC/M DUTTA
CASE Category: 45 – ELECTRICAL ENGR

<p>NAG 9 1185 GEORGE WASHINGTON UNIV 3407 DEVELOP TUNABLE DIODE LASER/CAVITY RING-DOWN SENSO R 01/11/2000 – 01/09/2003 FY01: \$0 Total: \$101,249 <i>Prin. Invest.:</i> J H MILLER <i>Tech. Officer:</i> NMO/D JAN <i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER</p>	<p>NCC 1 384 GEORGE WASHINGTON UNIV 3415 A RESEARCH PROGRAM IN FLIGHT SCIENCES AT THE NASA LANGLEY RESEARCH CENTER – JIAFS 03/07/2000 – 11/30/2001 FY01: \$141,248 Total: \$375,303 <i>Prin. Invest.:</i> J L WHITESIDES <i>Tech. Officer:</i> LARC/E WAGGONER <i>CASE Category:</i> 41 – AERONAUTICAL ENGR</p>
<p>NCC 1 14 GEORGE WASHINGTON UNIV 3408 AEROACOUSTICS RESEARCH PROGRAM IN JIAFS 05/16/1979 – 11/30/1999 FY01: -\$3,264 Total: \$3,601,667 <i>Prin. Invest.:</i> H LIEBOWITZ, M K MYERS <i>Tech. Officer:</i> LARC/L R CLARK, LARC/D G STEPHENS <i>CASE Category:</i> 41 – AERONAUTICAL ENGR</p>	<p>NCC 1 387 GEORGE WASHINGTON UNIV 3416 A PROGRAM OF RESEARCH AND EDUCATION IN AERO-SPACE VEHICLE DESIGN, SYNTHESIS, AND OPTIMIZATION 03/13/2000 – 11/30/2001 FY01: \$193,368 Total: \$370,227 <i>Prin. Invest.:</i> R R SANDUSKY <i>Tech. Officer:</i> LARC/M D MOORE <i>CASE Category:</i> 41 – AERONAUTICAL ENGR</p>
<p>NCC 1 24 GEORGE WASHINGTON UNIV 3409 PROGRAMS OF RESEARCH IN FLIGHT SCIENCES 08/08/1979 – 11/30/1999 FY01: -\$1,397 Total: \$3,793,710 <i>Prin. Invest.:</i> H LIEBOWITZ, J L WHITESIDES <i>Tech. Officer:</i> LARC/R T BRIGHT <i>CASE Category:</i> 41 – AERONAUTICAL ENGR</p>	<p>NCC 1 01017 GEORGE WASHINGTON UNIV 3417 PROGRAM OF RESEARCH AND EDUCATION IN AEROSPACE STRUCTURES AT THE JOINT INST FOR ADVANCEMENT 01/18/2001 – 11/30/2001 FY01: \$344,890 Total: \$344,890 <i>Prin. Invest.:</i> P A COOPER, R H TOLSON <i>Tech. Officer:</i> LARC/K L BRINKLEY <i>CASE Category:</i> 42 – ASTRONAUTICAL ENGR</p>
<p>NCC 1 47 GEORGE WASHINGTON UNIV 3410 CORE PROGRAM IN THE JOINT INST FOR ADVANCEMENT OF FLIGHT SCIENCES AT THE NASA-LANGLEY RESEARCH 11/05/1980 – 11/30/2000 FY01: -\$20,223 Total: \$5,461,231 <i>Prin. Invest.:</i> J L WHITESIDES, H W LIEBOWITZ <i>Tech. Officer:</i> LARC/R L YANG, LARC/M F CARD <i>CASE Category:</i> 41 – AERONAUTICAL ENGR</p>	<p>NCC 1 01020 GEORGE WASHINGTON UNIV 3418 A CORE PROGRAM IN JIAFS 02/02/2001 – 11/30/2001 FY01: \$133,706 Total: \$133,706 <i>Prin. Invest.:</i> J WHITESIDES <i>Tech. Officer:</i> LARC/R A HATHAWAY/E J PRIOR <i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER</p>
<p>NCC 1 326 GEORGE WASHINGTON UNIV 3411 A PROGRAM OF RESEARCH IN FLIGHT DYNAMICS IN JIAFS 01/27/1999 – 11/30/2001 FY01: \$70,000 Total: \$279,239 <i>Prin. Invest.:</i> V KLEIN <i>Tech. Officer:</i> LARC/J G BATTERSON <i>CASE Category:</i> 41 – AERONAUTICAL ENGR</p>	<p>NCC 5 51 GEORGE WASHINGTON UNIV 3419 PROGRAM FOR RESEARCH AND EDUCATION IN SPACE TECHNOLOGY 12/14/1992 – 09/30/1999 FY01: \$1,961 Total: \$2,849,048 <i>Prin. Invest.:</i> G FRIEDER, N BEDEWI <i>Tech. Officer:</i> GSFC/T E HUBER, GSFC/J R ROBINSON <i>CASE Category:</i> 42 – ASTRONAUTICAL ENGR</p>
<p>NCC 1 331 GEORGE WASHINGTON UNIV 3412 A COOPERATIVE PROGRAM OF RESEARCH & EDUCATION IN AEROSPACE VEHICLE MECHANICS AT JIAFS 03/22/1999 – 12/31/2002 FY01: \$265,000 Total: \$825,992 <i>Prin. Invest.:</i> R H TOLSON <i>Tech. Officer:</i> LARC/R W BUCHAN' <i>CASE Category:</i> 42 – ASTRONAUTICAL ENGR</p>	<p>NCC 5 436 GEORGE WASHINGTON UNIV 3420 PROGRAM FOR RESEARCH AND EDUCATION IN SPACE TECHNOLOGY (PREST) 10/04/1999 – 09/30/2001 FY01: \$124,117 Total: \$192,253 <i>Prin. Invest.:</i> S A SARKANI, NONE <i>Tech. Officer:</i> GSFC/D ASATO <i>CASE Category:</i> 41 – AERONAUTICAL ENGR</p>
<p>NCC 1 370 GEORGE WASHINGTON UNIV 3413 EXPERIMENTS IN THE FLUID AND THERMAL SCIENCES 02/10/2000 – 11/30/2001 FY01: \$118,000 Total: \$251,857 <i>Prin. Invest.:</i> A D CUTLER <i>Tech. Officer:</i> LARC/G S DISKIN, LARC/M W SMITH <i>CASE Category:</i> 41 – AERONAUTICAL ENGR</p>	<p>NGT 40056 GEORGE WASHINGTON UNIV 3421 NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM 03/01/1995 – 02/28/2000 FY01: -\$43,188 Total: \$270,552 <i>Prin. Invest.:</i> J M LOGSDON <i>Tech. Officer:</i> HQ/E T SCHWARTZ <i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER</p>
<p>NCC 1 374 GEORGE WASHINGTON UNIV 3414 AEROACOUSTICS RESEARCH PROGRAM JIAFS 02/15/2000 – 11/30/2001 FY01: \$56,790 Total: \$144,801 <i>Prin. Invest.:</i> M K MYERS <i>Tech. Officer:</i> LARC/C A POWELL <i>CASE Category:</i> 41 – AERONAUTICAL ENGR</p>	<p>NGT 2 52223 GEORGE WASHINGTON UNIV 3422 SCIENCE & ENG. APPRENTICE PROGRAM; TRANSFER FR AMES 10/2000; ENTERED 5/2001; GSFC STARTS SUPP 3 06/05/1997 – 05/15/2000 FY01: \$0 Total: \$72,199 <i>Prin. Invest.:</i> M KRUPSAW <i>Tech. Officer:</i> ARC/G D BLANEY, ARC/D S OZBURN <i>CASE Category:</i> 29 – MATH/COMPUTER SCI, OTHER</p>

NGT 2 52263 **GEORGE WASHINGTON UNIV** **3423**
 SCI & ENG. APPRENTICE PROGRAM; TRANS GSFC FR AMES GSFC STARTS
 SUPP. #2
 06/30/2000 – 06/14/2001 FY01: \$0 Total: \$27,837
Prin. Invest.: M KRUPSAW
Tech. Officer: ARC/G D BLANEY, ARC/D S OZBORN
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NGT 5 30 **GEORGE WASHINGTON UNIV** **3424**
 IMAGE RESTORATION AND NOISE REMOVAL IN HOLOGRAPHIC DATA
 07/15/1996 – 08/14/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: M H LOEW
Tech. Officer: GSFC/G A SOFFEN, GSFC/J DORBAND
CASE Category: 22 – COMPUTER SCIENCE

NGT 5 40058 **GEORGE WASHINGTON UNIV** **3425**
 THE NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PR
 02/14/1997 – 02/28/2000 FY01: \$0 Total: \$595,000
Prin. Invest.: J M LOGSDON
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 9 1058 **GEORGETOWN UNIV** **3426**
 CALCIUM KINETIC DURING SPACE FLIGHT
 12/16/1998 – 12/31/2000 FY01: \$0 Total: \$39,339
Prin. Invest.: E WASTNEY
Tech. Officer: JSC/S M SMITH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 9 1366 **GEORGETOWN UNIV** **3427**
 AWARD BASIC GRANT IN THE AMOUNT
 08/16/2001 – 09/30/2004 FY01: \$43,000 Total: \$43,000
Prin. Invest.: J M JESSUP
Tech. Officer: JSC/D RISIN
CASE Category: 43 – CHEMICAL ENGR

NAG 1 2019 **HOWARD UNIV** **3428**
 STRUCTURE-FUNCTION RELATIONSHIPS OF IMPACT-MODIFIED CYANATE
 ESTER RESINS
 03/13/1998 – 03/15/2002 FY01: \$0 Total: \$300,000
Prin. Invest.: W E COLLINS
Tech. Officer: LARC/H L BELVIN, LARC/J W CONNELL
CASE Category: 43 – CHEMICAL ENGR

NAG 1 2124 **HOWARD UNIV** **3429**
 INVESTIGATION OF WAKE-VORTEX/AIRCRAFT ENCOUNTERS
 12/14/1998 – 08/31/2000 FY01: -\$1,767 Total: \$14,387
Prin. Invest.: S T SMITH, C ROBERTS, K PETE
Tech. Officer: LARC/D D VICROY
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 2148 **HOWARD UNIV** **3430**
 CONTRIBUTION OF FLAP-SIDE EDGE VORTEX BURSTING TO AIRFRAME
 NOISE (NRA 98-LARC-5)
 02/05/1999 – 11/04/2001 FY01: \$63,415 Total: \$217,274
Prin. Invest.: S T SMITH
Tech. Officer: LARC/R R ANTOLIFF
CASE Category: 41 – AERONAUTICAL ENGR

NAG 2 1526 **HOWARD UNIV** **3431**
 A SEARCH FOR PORPHYRINS & METALLOPORPHYRINS IN THE
 MURCHISON METEORITE USING MALDI-TOF MASS SPECTRO
 09/27/2001 – 09/30/2002 FY01: \$60,778 Total: \$60,778
Prin. Invest.: P HAMBRIGHT
Tech. Officer: ARC/G COOPER, ARC/B J COLLINS
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 3 1978 **HOWARD UNIV** **3432**
 AEROSPACE POWER SYSTEM AUTOMATION
 10/25/1996 – 12/31/2000 FY01: \$0 Total: \$300,000
Prin. Invest.: J A MOMOH
Tech. Officer: GRC/J L DOLCE
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 2030 **HOWARD UNIV** **3433**
 EXPERIMENTAL IMPLEMENTATION OF HIGH PERFORMANCE AC DRIVES
 USING NERL DESIGNS
 04/04/1997 – 08/31/2000 FY01: \$0 Total: \$140,000
Prin. Invest.: A RUBARI
Tech. Officer: GRC/D F NOGA, GRC/D M KAW KAM
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 2287 **HOWARD UNIV** **3434**
 EXPERIMENTAL VERIFICATION OF ELECTRIC DRIVE TECHNOLOGIES
 BASED ON ARTIFICIAL INTELLIGENCE TOOLS
 08/23/1999 – 06/01/2002 FY01: \$76,000 Total: \$152,000
Prin. Invest.: D RUBAAI
Tech. Officer: GRC/D F NOGA
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 2429 **HOWARD UNIV** **3435**
 A TRANSPORT OPERATION AND CONTROL OF HIGH PERFORMANCE,
 POWER MANAGEMENT AND DISTRIBUTION (PMAD)
 05/23/2000 – 12/31/2001 FY01: \$0 Total: \$58,065
Prin. Invest.: D A MOMOH
Tech. Officer: GRC/R M BUTTON
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 3 2621 **HOWARD UNIV** **3436**
 DETECTION, DIAGNOSIS, LOCATION AND RECOMMENDATION OF REME-
 DIAL ACTIONS FOR CORONA/SHORT FAULTS
 05/24/2001 – 04/05/2003 FY01: \$57,517 Total: \$57,517
Prin. Invest.: D A MOMOH
Tech. Officer: GRC/R M BUTTON
CASE Category: 45 – ELECTRICAL ENGR

NAG 5 6066 **HOWARD UNIV** **3437**
 THE DEVELOPMENT OF A NEW GENERATION TRAPPED RADIAT
 07/28/1997 – 01/31/2001 FY01: \$0 Total: \$290,959
Prin. Invest.: R BOURGIN
Tech. Officer: GSFC/S FUNG
CASE Category: 21 – MATHEMATICS

NAG 5 6835 **HOWARD UNIV** **3438**
 LABORATORY STUDIES OF NITRILES IN TITAN'S ATMOSPHERE: CYANOAC-
 ETYLENES AND C₃N
 01/07/1998 – 12/31/2000 FY01: \$0 Total: \$189,368
Prin. Invest.: J HALPERN
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 – ASTRONOMY

NAG 5 7384 **HOWARD UNIV** **3439**
 PUBLIC SERVICE INTERN PROGRAM
 05/13/1998 – 05/14/2000 FY01: \$0 Total: \$161,300
Prin. Invest.: D WOODARD
Tech. Officer: GSFC/D MENCHAN
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 8790 **HOWARD UNIV** **3440**
 QUALITY SOFTWARE: KNOWLEDGE ACQUISITION IN SOFTWARE ENGI-
 NEERING RESEARCH
 08/31/1999 – 08/31/2001 FY01: \$0 Total: \$200,000
Prin. Invest.: J TRIMBLE
Tech. Officer: GSFC/W TRUSZKOWSKI
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 9279 **HOWARD UNIV** **3441**
 TO PROVIDE 7 ON-SITE INTERNSHIPS AT GODDARD FOR GRADUATE
 STUDENTS IN ADMINISTRATIVE DISCIPLINES
 03/21/2000 – 03/31/2001 FY01: \$0 Total: \$73,700
Prin. Invest.: W WOODARD
Tech. Officer: GSFC/D MENCHAN
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10371 **HOWARD UNIV** **3442**
 NANOCOMPOSITE-BASED COMPACT THERMOMAGNETIC CRYOCOO LERS
 NRA PROPOSAL#1319
 02/09/2001 – 01/14/2002 FY01: \$126,399 Total: \$126,399
Prin. Invest.: T HUBER
Tech. Officer: GSFC/J TUTTLE
CASE Category: 13 – PHYSICS

NAG 5 10675 **HOWARD UNIV** **3443**
 SUPPLEMENT TO THE CENTER FOR THE STUDY OF TERRESTR IAL AND
 EXTRATERRESTRIAL ATMOSPHERES (CSTEA)
 03/27/2001 – 03/14/2002 FY01: \$200,000 Total: \$200,000
Prin. Invest.: A N THORPE
Tech. Officer: GSFC/C PERSON
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10838 **HOWARD UNIV** **3444**
 PUBLIC SERVICE INTERN PROGRAM
 05/11/2001 – 05/31/2002 FY01: \$73,700 Total: \$73,700
Prin. Invest.: M C WOODARD
Tech. Officer: GSFC/D MENCHAN
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 11118 **HOWARD UNIV** **3445**
 TECHNOLOGY ASSESSMENT AND RELIABILITY CHARACTERIZA TION OF
 III-VSEMICONDUCTOR MODFET DEVICE
 08/07/2001 – 08/14/2002 FY01: \$50,000 Total: \$50,000
Prin. Invest.: D MOHAMMAD
Tech. Officer: GSFC/A SHARMA
CASE Category: 45 – ELECTRICAL ENGR

NAG 9 977 **HOWARD UNIV** **3446**
 CAFFEINE METBOLISM-THE PHARMACOKINETICS OF SPACE FLIGHT
 09/30/1997 – 06/30/2001 FY01: \$0 Total: \$394,052
Prin. Invest.: M W COOMES
Tech. Officer: JSC/L PUTCHA
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAS 5 00214 **HOWARD UNIV** **3447**
 HIERARCHICAL ALGORITHMS & THEIR EMBEDDED COMPUTATIONAL
 REALIZATION IN RECONFIGURABLE H/W.
 09/29/2000 – 09/28/2002 FY01: \$234,354 Total: \$234,354
Prin. Invest.: C GLOTZER
Tech. Officer: GSFC/J STEPHENS
CASE Category: 22 – COMPUTER SCIENCE

NCC 5 184 **HOWARD UNIV** **3448**
 TERRESTRIAL AND EXTRATERRESTRIAL ATMOSPHERES
 03/12/1997 – 02/28/2002 FY01: \$999,422 Total: \$4,997,706
Prin. Invest.: A N THORPE
Tech. Officer: GSFC/G A SOFFEN
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NCC 5 197 **HOWARD UNIV** **3449**
 CSTE A HBCU ACADEMIC AND RESEARCH CONSORTIUM (CHARC
 05/22/1997 – 05/31/2000 FY01: \$0 Total: \$2,200,000
Prin. Invest.: A N THORPE
Tech. Officer: GSFC/W R HOEGY
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 5 387 **HOWARD UNIV** **3450**
 CENTER FOR THE STUDY OF TERRESTRIAL AND EXTRATERRE STRIAL
 ATMOSPHERES(CSTEA)
 04/16/1999 – 07/31/2001 FY01: \$23,362 Total: \$223,362
Prin. Invest.: S T SMITH
Tech. Officer: GSFC/W R HOEGY
CASE Category: 13 – PHYSICS

NCC 5 420 **HOWARD UNIV** **3451**
 CSTE A-HBCU ACACEMIC AND RESEARCH CONSORTIUM (CHARC)
 08/30/1999 – 08/31/2002 FY01: \$0 Total: \$1,125,000
Prin. Invest.: A THORPE
Tech. Officer: GSFC/W HOEGY
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 5 424 **HOWARD UNIV** **3452**
 GSFC/HU FELLOWSHIP IN ATMOSPHERIC SCIENCE (GOHFAS)
 08/27/1999 – 08/31/2001 FY01: \$0 Total: \$175,000
Prin. Invest.: S T SMITH
Tech. Officer: GSFC/W HOEGY
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 5 556 **HOWARD UNIV** **3453**
 GODDARD SPACE FLIGHT CENTER/HOWARD UNIV FELL OWSHIP IN
 ATMOSPHERIC SCIENCE (GOHFAS)
 05/24/2001 – 04/30/2002 FY01: \$295,000 Total: \$295,000
Prin. Invest.: S T SMITH
Tech. Officer: GSFC/W R HOEGY
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 8 184 **HOWARD UNIV** **3454**
 IMPORT OF IMPAIRED POLYADP-RIBOSYLATION AND FREE RADICAL
 STRESS IN ATAXIA-TELANGIECTASIA
 09/01/1999 – 08/31/2001 FY01: \$0 Total: \$99,349
Prin. Invest.: R SRIDHAR
Tech. Officer: MSFC/R SRIDHAR
CASE Category: 56 – MEDICL

NGT 5 77 **HOWARD UNIV** **3455**
 SUPPORT OF THE 1999 ASEE-NASA SUMMER FACULTY FELLO WSHIP
 PROGRAM(AERONAUTICS AND SPACE RESE
 03/25/1999 - 12/31/2000 FY01: \$0 Total: \$431,500
Prin. Invest.: J B HALPERN
Tech. Officer: GSFC/M S BURRELL
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 113 **HOWARD UNIV** **3456**
 SUPPORT OF THE 2001 ASEE-NASA SUMMER FACULTY FELLOWSHIP
 PROGRAM (AERONAUTICS & SPACE RESEA
 04/13/2001 - 03/31/2002 FY01: \$354,000 Total: \$354,000
Prin. Invest.: J B HALPERN
Tech. Officer: GSFC/M S BURRELL
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10027 **THE AMERICAN UNIV** **3457**
 DEEP LITHOSPHERIC STRUCTURE.
 10/02/2000 - 09/30/2001 FY01: \$7,740 Total: \$7,740
Prin. Invest.: J KUTINA
Tech. Officer: GSFC/P TAYLOR
CASE Category: 32 - GEOLOGICAL SCIENCE

NCC 5 269 **THE AMERICAN UNIV** **3458**
 DEVELOPMENT OF STATE OF THE ART SOLID STATE LASERS FOR ALTI-
 METRY AND OTHER LIDAR APPLICATIONS
 02/11/1998 - 06/30/2000 FY01: \$0 Total: \$473,454
Prin. Invest.: R B KAY
Tech. Officer: GSFC/J L BUFTON
CASE Category: 13 - PHYSICS

NCC 5 482 **THE AMERICAN UNIV** **3459**
 DEVELOPMENT OF STATE-OF-THE-ART SOLID STATE LASERS FOR ALTI-
 METRY & OTHER LIDAR APPLICATIONS
 03/23/2000 - 04/30/2002 FY01: \$90,621 Total: \$343,682
Prin. Invest.: R B KAY
Tech. Officer: GSFC/J L BUFTON
CASE Category: 13 - PHYSICS

NGT 5 79 **THE AMERICAN UNIV** **3460**
 YEAR 1 OF GSRP GRANT FOR MR. SAMUEL GOMPERS OF THE AMERICAN
 UNIVERISTY IN SUPPORT OF MICROLASER DE
 05/04/1999 - 12/31/2000 FY01: -\$4,115 Total: \$25,218
Prin. Invest.: J KAY
Tech. Officer: GSFC/G SOFFEN
CASE Category: 49 - ENGINEERING, OTHER

NGT 5 40068 **THE AMERICAN UNIV** **3461**
 DISTRICT OF COLUMBIA/NATIONAL SPACE GRANT COLLEGE AND FELLO-
 SHIP PROGRAM
 03/29/2000 - 02/28/2002 FY01: \$212,500 Total: \$425,000
Prin. Invest.: R BERENDZEN
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 1 01066 **THE CATHOLIC UNIV OF AMERICA** **3462**
 REAL-TIME ADAPTIVE AUTOMATION OF FLIGHT TASKS
 04/18/2001 - 12/31/2001 FY01: \$38,837 Total: \$38,837
Prin. Invest.: R PARASURAMAN
Tech. Officer: LARC/L J PRINZEL
CASE Category: 69 - PSYCHOLOGY, OTHER

NAG 2 1096 **THE CATHOLIC UNIV OF AMERICA** **3463**
 DYNAMIC AUTOMATION TOOLS FOR AIR TRAFFIC MANAGEMEN T
 12/09/1996 - 02/28/2001 FY01: \$0 Total: \$959,796
Prin. Invest.: R PARASURAMAN
Tech. Officer: ARC/W JOHNSON, ARC/M R ROSEKEND
CASE Category: 69 - PSYCHOLOGY, OTHER

NAG 5 1413 **THE CATHOLIC UNIV OF AMERICA** **3464**
 OBSERVATIONS OBTAINED W/ GODDARD HIGH RESOLUTION
 08/02/1990 - 09/30/1999 FY01: -\$111 Total: \$280,895
Prin. Invest.: F C BRUHWEILER, C A GRADY
Tech. Officer: GSFC/A SMITH
CASE Category: 11 - ASTRONOMY

NAG 5 3378 **THE CATHOLIC UNIV OF AMERICA** **3465**
 OBSERVATIONS AND ANALYSIS OF DATA OBTAINED BY THE SPACE TELE-
 SCOPE IMAGING SPECTROGRAPH
 08/28/1996 - 09/30/2001 FY01: \$0 Total: \$453,665
Prin. Invest.: A BOGGESS
Tech. Officer: GSFC/T R GULL
CASE Category: 11 - ASTRONOMY

NAG 5 3487 **THE CATHOLIC UNIV OF AMERICA** **3466**
 MEASURING BORON ABUNDANCES WITH IUE SPECTRA USING LINES
 11/25/1996 - 11/14/2000 FY01: \$0 Total: \$31,905
Prin. Invest.: F C BRUNHWEILER
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 4103 **THE CATHOLIC UNIV OF AMERICA** **3467**
 OBSERVATIONS AND ANALYSIS OF SEYFERT GALAXIES WITH THE SPACE
 TELESCOPE IMAGINGSPECTROGRAPH
 03/31/1997 - 08/31/2002 FY01: \$20,000 Total: \$812,607
Prin. Invest.: S KRAEMER
Tech. Officer: GSFC/T GULL
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 4345 **THE CATHOLIC UNIV OF AMERICA** **3468**
 EXPERIMENTAL STUDIES OF INGENOUS PROCESSES IN ENST
 04/09/1997 - 04/30/2001 FY01: \$0 Total: \$159,000
Prin. Invest.: D DICKINSON
Tech. Officer: GSFC/D NAVA
CASE Category: 11 - ASTRONOMY

NAG 5 4362 **THE CATHOLIC UNIV OF AMERICA** **3469**
 SPATIAL-SPECTRAL MAPPING OF CO EMISSION IN COMETS HALE-BOPP,
 AND COMPARISON WITH OTHER ORGANICS
 04/21/1997 - 09/30/2001 FY01: \$0 Total: \$89,765
Prin. Invest.: D DISANTI
Prin. Invest.: NONE
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 - ASTRONOMY

NAG 5 4940 **THE CATHOLIC UNIV OF AMERICA** **3470**
 INTERPRETIVE TOOLS FOR ANALYSIS OF CORONAL IMAGES
 06/23/1997 - 09/30/2001 FY01: \$0 Total: \$192,800
Prin. Invest.: D GUHATHAKURTA
Tech. Officer: GSFC/W J WAGNER
CASE Category: 13 - PHYSICS

NAG 5 6026 THE CATHOLIC UNIV OF AMERICA 3471
 DEVELOPMENT OF VERY LIGHT WEIGHT ACTIVE OPTICS
 09/04/1997 - 06/30/2001 FY01: \$0 Total: \$66,714
Prin. Invest.: F BRUHWEILER
Tech. Officer: GSFC/C BOWERS
CASE Category: 11 - ASTRONOMY

NAG 5 6139 THE CATHOLIC UNIV OF AMERICA 3472
 NEAR-SURFACE MANIFESTATIONS OF GEO-EFFECTIVE SOLAR
 09/08/1997 - 09/14/2002 FY01: \$0 Total: \$198,827
Prin. Invest.: D GOPALSWAMY
Tech. Officer: GSFC/W J WAGNER
CASE Category: 11 - ASTRONOMY

NAG 5 6239 THE CATHOLIC UNIV OF AMERICA 3473
 A STUDY OF PHYSICAL PROCESSES IN THE ATMOSPHERE OF
 09/08/1997 - 09/30/2002 FY01: \$0 Total: \$268,375
Prin. Invest.: R D ROBINSON
Tech. Officer: GSFC/K G CARPENTER
CASE Category: 11 - ASTRONOMY

NAG 5 6674 THE CATHOLIC UNIV OF AMERICA 3474
 THE NATURE AND ORIGIN OF THE HGPMN PHENOMENA
 11/21/1997 - 05/31/2000 FY01: -\$9,370 Total: \$80,630
Prin. Invest.: F BRUHWEILER
Tech. Officer: GSFC/D LECKRONE
CASE Category: 11 - ASTRONOMY

NAG 5 7078 THE CATHOLIC UNIV OF AMERICA 3475
 MAPPING OF HIGH-ALTITUDE OZONE IN THE ATMOSPHERE OF MARS
 02/25/1998 - 02/28/2001 FY01: \$0 Total: \$114,700
Prin. Invest.: V A KRANOPOLSKY
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 - ASTRONOMY

NAG 5 7132 THE CATHOLIC UNIV OF AMERICA 3476
 STUDIES OF THE DISTRIBUTION OF AEROSOLS AND THEIR EFFECT ON
 MARTIAN ATMOSPHERIC DYNAMICS USING M
 03/06/1998 - 02/29/2000 FY01: -\$431 Total: \$59,269
Prin. Invest.: D D SMITH
Tech. Officer: GSFC/J PEARL
CASE Category: 11 - ASTRONOMY

NAG 5 7413 THE CATHOLIC UNIV OF AMERICA 3477
 INVESTIGATION OF THE SOLAR CORONA WITH THE SPARTAN 201 WHITE-
 LIGHT CORONAGRAPH SYSTEM
 06/05/1998 - 05/14/2000 FY01: \$0 Total: \$74,528
Prin. Invest.: S GIBSON
Tech. Officer: GSFC/R R FISCHER
CASE Category: 11 - ASTRONOMY

NAG 5 7753 THE CATHOLIC UNIV OF AMERICA 3478
 QUANTITATIVE ANALYSIS OF ETHANE AND METHANE IN COMETS HYAKU-
 TAKE AND HALE-BOPP: DETERMINATION OF
 12/08/1998 - 12/31/2001 FY01: \$34,100 Total: \$98,174
Prin. Invest.: N RUSSO
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 - ASTRONOMY

NAG 5 7905 THE CATHOLIC UNIV OF AMERICA 3479
 SPATIAL-SPECTRAL MAPPING OF COMETARY CO EMISSION, AND
 COMPARISON WITH OTHER ORGANICS
 12/10/1998 - 09/30/2002 FY01: \$83,500 Total: \$238,350
Prin. Invest.: D A DISANTI
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 - ASTRONOMY

NAG 5 8018 THE CATHOLIC UNIV OF AMERICA 3480
 INTERPRETATION OF SOHO/LASCO,EIT, UVCS OBSERVATIONS USING A
 MULTI-DIMENSIONAL MHD MODEL
 01/06/1999 - 12/31/2001 FY01: \$62,000 Total: \$172,276
Prin. Invest.: M GUATHAKURTA
Tech. Officer: GSFC/J GURMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 8276 THE CATHOLIC UNIV OF AMERICA 3481
 RADIATIVE ACCELERATION CALCULATIONS FOR B STAR ENV ELOPES AND
 ATMOSPHERES(ATP 98)
 02/19/1999 - 02/28/2002 FY01: \$60,000 Total: \$157,491
Prin. Invest.: C R PROFFITT
Tech. Officer: GSFC/R K OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 8312 THE CATHOLIC UNIV OF AMERICA 3482
 LABORATORY PREPARATION AND REACTIONS OF DIRADICAL SPECIES
 RELEVANT TO HYDROCARBON PHOTOCHEMISTRY
 03/22/1999 - 02/28/2000 FY01: -\$4,825 Total: \$65,375
Prin. Invest.: D J BOGAN
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 - ASTRONOMY

NAG 5 8357 THE CATHOLIC UNIV OF AMERICA 3483
 GRANT FUNDS FOR UNIV SUPPORT OF ELEANOR ROOS EVELT HIGH
 SCHOOL INVOLVEMENT IN US FIRST ROB
 03/11/1999 - 01/31/2000 FY01: -\$1,326 Total: \$18,674
Prin. Invest.: D NGUYEN
Tech. Officer: GSFC/L PURVES
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 8508 THE CATHOLIC UNIV OF AMERICA 3484
 EXPERIMENTAL STUDIES OF IGNEOUS PROCESSES IN ENSTATITE
 METEORITES
 05/21/1999 - 04/30/2002 FY01: \$10,000 Total: \$20,000
Prin. Invest.: T DICKINSON
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8529 THE CATHOLIC UNIV OF AMERICA 3485
 LUNAR ABUNDANCES OF RADIOACTIVE ELEMENTS AND IMPLICATIONS
 FOR LUNAR EVOLUTION
 06/15/1999 - 06/30/2001 FY01: \$0 Total: \$49,000
Prin. Invest.: R D STARR
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8619 THE CATHOLIC UNIV OF AMERICA 3486
 RESEARCH SUPPORT OF WIND MAGNETIC FIELD INSTRUMENT
 06/18/1999 - 12/31/2000 FY01: \$0 Total: \$25,000
Prin. Invest.: Y C WHANG
Tech. Officer: GSFC/J A SLAVIN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 8622 THE CATHOLIC UNIV OF AMERICA 3487
 CONTINUED DEVELOPMENT OF A FABRY-PEROT AND LYOT NARROW
 BAND IMAGING SYSTEM.
 06/22/1999 – 06/30/2002 FY01: \$0 Total: \$58,180
Prin. Invest.: F C BRUHWEILER
Tech. Officer: GSFC/B WOODGATE
CASE Category: 11 – ASTRONOMY

NAG 5 8631 THE CATHOLIC UNIV OF AMERICA 3488
 ATOMIC & MOLECULAR ABUNDANCES IN THE INTERSTELLAR MEDIUM OF
 THE MILKY WAY AND THE MAGELLANIC
 06/25/1999 – 08/14/2001 FY01: \$0 Total: \$228,786
Prin. Invest.: F C BRUHWEILER
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 – ASTRONOMY

NAG 5 8691 THE CATHOLIC UNIV OF AMERICA 3489
 A SEARCH FOR ROTATIONAL MODULATION OF X-RAY CTRES ON GAMMA
 CAS (BO.5E)
 07/21/1999 – 01/31/2001 FY01: \$0 Total: \$9,810
Prin. Invest.: R D ROBINSON
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 8752 THE CATHOLIC UNIV OF AMERICA 3490
 LARGE SCALE STRUCTURE IN THE DISTANT UNIVERSE
 08/17/1999 – 12/31/2000 FY01: \$0 Total: \$91,366
Prin. Invest.: F C BRUHWEILER
Tech. Officer: GSFC/B E WOODGATE
CASE Category: 11 – ASTRONOMY

NAG 5 8761 THE CATHOLIC UNIV OF AMERICA 3491
 HUMAN BIOLOGY-BASED ADAPTIVE SYSTEMS IN SUPPORT OF SPACE
 EXPLORATION
 09/03/1999 – 08/31/2002 FY01: \$207,567 Total: \$472,334
Prin. Invest.: R D PARASURAMAN
Tech. Officer: GSFC/R CROUCH
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 8793 THE CATHOLIC UNIV OF AMERICA 3492
 ULTRAVIOLET DIAGNOSTICS OF MAGNETIC AND RELATED ACTIVITY IN
 MAIN SEQUENCE B STARS (ADP 98)
 09/07/1999 – 11/30/2001 FY01: \$29,424 Total: \$65,760
Prin. Invest.: M SMITH
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 8968 THE CATHOLIC UNIV OF AMERICA 3493
 CORONAL EMISSION AND MASS LOSS IN THE HOTTEST STAR OF THE H-R
 DIAGRAM – FUSE
 01/24/2000 – 01/31/2002 FY01: \$0 Total: \$48,100
Prin. Invest.: F C BRUHWEILER
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 – ASTRONOMY

NAG 5 8998 THE CATHOLIC UNIV OF AMERICA 3494
 THE DRIVERS OF CORONAL AND INTERPLANETARY SHOCKS.
 02/02/2000 – 02/14/2002 FY01: \$0 Total: \$110,000
Prin. Invest.: N GOPALSWAMY
Tech. Officer: GSFC/M L KAISER
CASE Category: 11 – ASTRONOMY

NAG 5 9394 THE CATHOLIC UNIV OF AMERICA 3495
 VOYAGER CROSSING OF THE TERMINATION SHOCK
 04/06/2000 – 04/14/2001 FY01: \$0 Total: \$25,000
Prin. Invest.: Y C WHANG
Tech. Officer: GSFC/L F BURLQGA
CASE Category: 11 – ASTRONOMY

NAG 5 9400 THE CATHOLIC UNIV OF AMERICA 3496
 MAPPING OF HIGH-ALTITUDE OZONE IN THE ATMOSPHERE OF MARS
 04/10/2000 – 03/31/2001 FY01: \$0 Total: \$30,000
Prin. Invest.: V A KRASNOPOLSKY
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 – ASTRONOMY

NAG 5 9502 THE CATHOLIC UNIV OF AMERICA 3497
 GLOBAL MEASUREMENT OF SOLAR WIND SPEED AND TEMPERA TURE IN
 THE SUN'S CORONA USING GROUND BASED VISIBL
 06/06/2000 – 06/14/2002 FY01: \$203,801 Total: \$251,639
Prin. Invest.: O ST.CYR
Tech. Officer: GSFC/W J WAGNER
CASE Category: 13 – PHYSICS

NAG 5 9539 THE CATHOLIC UNIV OF AMERICA 3498
 ABUNDANCES OF VERY HEAVY ELEMENTS IN LATE-B AND EARLY-A STARS
 (ADP 99)
 05/09/2000 – 05/14/2002 FY01: \$31,241 Total: \$60,458
Prin. Invest.: G W WAHLGREN
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 9600 THE CATHOLIC UNIV OF AMERICA 3499
 MICROWAVE ENHANCEMENT IN CORONAL HOLES: STRUCTURE, VARI-
 ABILITY & MAGNETIC NATURE
 05/19/2000 – 09/14/2001 FY01: \$0 Total: \$22,000
Prin. Invest.: N GOPALSWAMY
Tech. Officer: GSFC/W J WAGNER
CASE Category: 13 – PHYSICS

NAG 5 9696 THE CATHOLIC UNIV OF AMERICA 3500
 HOT POPULATIONS IN NEARBY ELLIPTICAL GALAXIES – FUSE
 07/18/2000 – 07/31/2002 FY01: \$0 Total: \$58,879
Prin. Invest.: T BROWN
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 – ASTRONOMY

NAG 5 9865 THE CATHOLIC UNIV OF AMERICA 3501
 REDUCTION AND SCIENTIFIC ANALYSIS OF INFRARED DATA OBTAINED
 WITH THE NEAR INFRARED SPECTROMETER
 08/17/2000 – 06/14/2001 FY01: \$0 Total: \$37,210
Prin. Invest.: F C BRUHWEILER
Tech. Officer: GSFC/M M FRUEND
CASE Category: 11 – ASTRONOMY

NAG 5 9888 THE CATHOLIC UNIV OF AMERICA 3502
 A SPECTROSCOPIC STUDY OF ION MOTIONS IN CORONAL HOLES USING
 SOHO/SUMER OBSERVATIONS
 08/24/2000 – 08/31/2002 FY01: \$49,843 Total: \$99,686
Prin. Invest.: T MORAN
Tech. Officer: GSFC/W WAGNER
CASE Category: 11 – ASTRONOMY

<p>NAG 5 10006 THE CATHOLIC UNIV OF AMERICA 3503 LARGE-SCALE STRUCTURE IN THE DISTANT UNIVERSE 09/22/2000 – 09/30/2002 FY01: \$0 Total: \$91,366 <i>Prin. Invest.:</i> F C BRUHWEILER <i>Tech. Officer:</i> GSFC/B WOODGATE <i>CASE Category:</i> 11 – ASTRONOMY</p>	<p>NAG 5 10492 THE CATHOLIC UNIV OF AMERICA 3511 CONTINUED MAPPING OF HIGH-ALTITUDE OZONE & SEARCH FOR NIGHT-GLOW ON MARS 02/27/2001 – 02/28/2002 FY01: \$59,800 Total: \$59,800 <i>Prin. Invest.:</i> V KRASNOPOLSKY <i>Tech. Officer:</i> GSFC/T MORGAN <i>CASE Category:</i> 11 – ASTRONOMY</p>
<p>NAG 5 10013 THE CATHOLIC UNIV OF AMERICA 3504 RESEARCH EXPERIENCES FOR UNDERGRADUATES IN THE LABORATORY FOR ASTRONOMY & SOLARPHYSICS 09/25/2000 – 09/30/2001 FY01: \$90,265 Total: \$96,107 <i>Prin. Invest.:</i> F C BRUHWEILER <i>Tech. Officer:</i> GSFC/C CRANNEL <i>CASE Category:</i> 11 – ASTRONOMY</p>	<p>NAG 5 10500 THE CATHOLIC UNIV OF AMERICA 3512 SCIENTIFIC WORKSHOP AT THE CATHOLIC UNIV OF AMERICA: MASSS OUTFLOWIN ACTIVE GALACTIC NUCLEI: N 03/09/2001 – 12/31/2001 FY01: \$10,000 Total: \$10,000 <i>Prin. Invest.:</i> S KRAEMER <i>Tech. Officer:</i> GSFC/P CRANE <i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER</p>
<p>NAG 5 10033 THE CATHOLIC UNIV OF AMERICA 3505 SPACE QUALIFICATION OF LARGE LIGHTWEIGHT MIRROR TECHNOLOGY FOR USE AT VISIBLE & NEAR-IR WAVELENGTH 09/29/2000 – 12/31/2001 FY01: \$42,000 Total: \$84,000 <i>Prin. Invest.:</i> P C CHEN <i>Tech. Officer:</i> GSFC/S G NEFF <i>CASE Category:</i> 11 – ASTRONOMY</p>	<p>NAG 5 10575 THE CATHOLIC UNIV OF AMERICA 3513 CORRELATIVE PHOTOCHEMICAL STUDY OF THE IRTF-CSHELL MAPS OF O₃, CO & H₂O & THE MGS TES OBSERVATIONS 03/13/2001 – 03/14/2002 FY01: \$55,000 Total: \$55,000 <i>Prin. Invest.:</i> V KRASNOPOLSKY <i>Tech. Officer:</i> GSFC/J BOYCE <i>CASE Category:</i> 11 – ASTRONOMY</p>
<p>NAG 5 10095 THE CATHOLIC UNIV OF AMERICA 3506 DEVELOPMENT OF IR ARRAY SPECTROMETERS FOR GROUND-BASED & SPACE-BORNE PLANETARY ASTRONOMY. 11/28/2000 – 11/30/2002 FY01: \$111,305 Total: \$111,305 <i>Prin. Invest.:</i> F C BRUHWEILER <i>Tech. Officer:</i> GSFC/D C REUTER <i>CASE Category:</i> 11 – ASTRONOMY</p>	<p>NAG 5 10680 THE CATHOLIC UNIV OF AMERICA 3514 DARK CLUSTERS AS GRAVITATIONAL LENSES 04/02/2001 – 03/31/2002 FY01: \$24,020 Total: \$24,020 <i>Prin. Invest.:</i> G WILLIGER <i>Tech. Officer:</i> GSFC/D KAZANAS <i>CASE Category:</i> 11 – ASTRONOMY</p>
<p>NAG 5 10130 THE CATHOLIC UNIV OF AMERICA 3507 SOLAR WIND ELECTRON DATA ANALYSES 12/06/2000 – 06/14/2002 FY01: \$64,000 Total: \$64,000 <i>Prin. Invest.:</i> Y WHANG <i>Tech. Officer:</i> GSFC/K W OGILVIE <i>CASE Category:</i> 13 – PHYSICS</p>	<p>NAG 5 10795 THE CATHOLIC UNIV OF AMERICA 3515 GROUND-BASED INFRARED SPECTROSCOPY OF WATER IN COMETS: FLUORESCENCE MODELING AND QUANTITATIVE ANALYSIS 04/25/2001 – 04/30/2002 FY01: \$42,300 Total: \$42,300 <i>Prin. Invest.:</i> N D RUSSO <i>Tech. Officer:</i> GSFC/T MORGAN <i>CASE Category:</i> 11 – ASTRONOMY</p>
<p>NAG 5 10231 THE CATHOLIC UNIV OF AMERICA 3508 THE DRIVERS OF CORONAL AND INTERPLANETARY SHOCKS 01/22/2001 – 02/14/2002 FY01: \$97,270 Total: \$97,270 <i>Prin. Invest.:</i> N GOPALSWAMY <i>Tech. Officer:</i> GSFC/M L KAISER <i>CASE Category:</i> 11 – ASTRONOMY</p>	<p>NAG 5 10837 THE CATHOLIC UNIV OF AMERICA 3516 PROPAGATION OF CMES THROUGH THE INTERPLANETARY MEDIUM: INTERACTIONS WITH THE SOLAR WIND 04/27/2001 – 04/30/2002 FY01: \$50,880 Total: \$50,880 <i>Prin. Invest.:</i> N GOPALSWAMY <i>Prin. Invest.:</i> NONE <i>Tech. Officer:</i> GSFC/W J WAGNER <i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER</p>
<p>NAG 5 10307 THE CATHOLIC UNIV OF AMERICA 3509 DEVELOPMENT OF INSTRUMENTATION & MISSION OPERATION CONCEPTS FOR THE SOLAR TERRESTRIAL RELATIONS OBSERVATION 01/31/2001 – 01/31/2002 FY01: \$128,250 Total: \$128,250 <i>Prin. Invest.:</i> D ST. CYR <i>Tech. Officer:</i> GSFC/D ORWIG <i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE</p>	<p>NAG 5 10867 THE CATHOLIC UNIV OF AMERICA 3517 X-RAY & MICROWAVE MODELS IN SUPPORT OF HESSI SOLAR FLARE OBSERVATIONS. 05/07/2001 – 05/14/2002 FY01: \$10,800 Total: \$10,800 <i>Prin. Invest.:</i> L OFMAN <i>Tech. Officer:</i> GSFC/G D HOLMAN <i>CASE Category:</i> 11 – ASTRONOMY</p>
<p>NAG 5 10382 THE CATHOLIC UNIV OF AMERICA 3510 MONITORING THE VARIABLE ABSORPTION IN THE SEYFERT 1 GALAXY NGC 3783 WITH FUZE, HST, AND CHANDRA 02/06/2001 – 02/14/2002 FY01: \$85,600 Total: \$85,600 <i>Prin. Invest.:</i> D CRENSHAW <i>Tech. Officer:</i> GSFC/G SONNEBORN <i>CASE Category:</i> 11 – ASTRONOMY</p>	<p>NAG 5 10870 THE CATHOLIC UNIV OF AMERICA 3518 RXTE FLARES ON PROXIMA CENTAURAE (ADP 00) 05/07/2001 – 05/14/2002 FY01: \$11,941 Total: \$11,941 <i>Prin. Invest.:</i> R D ROBINSON <i>Tech. Officer:</i> GSFC/R J OLIVERSEN <i>CASE Category:</i> 11 – ASTRONOMY</p>

NAG 5 10931 THE CATHOLIC UNIV OF AMERICA 3519
 INVESTIGATING THE EXCITATION MECHANISM FOR COMETARY X-RAY,
 EUV, & FUV EMISSIONS(FUSE 2000)
 05/16/2001 - 05/31/2002 FY01: \$10,000 Total: \$10,000
Prin. Invest.: V KRASNOPOLSKY
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 10944 THE CATHOLIC UNIV OF AMERICA 3520
 JUST WHAT IS ETA CARINAE - FUSE 00
 05/24/2001 - 05/31/2002 FY01: \$23,500 Total: \$23,500
Prin. Invest.: R IPING
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 11003 THE CATHOLIC UNIV OF AMERICA 3521
 PHYSICAL PROPERTIES OF THE SOLAR WIND IN CORONAL HOLES
 DEDUCED FROM WAVES IN PLUMES
 06/06/2001 - 05/31/2002 FY01: \$10,000 Total: \$10,000
Prin. Invest.: L OFMAN
Tech. Officer: GSFC/W J WAGNER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 11014 THE CATHOLIC UNIV OF AMERICA 3522
 SEARCH FOR H2 IN MARS' ATMOSPHERE (FUSE 1999)
 06/25/2001 - 06/30/2002 FY01: \$25,900 Total: \$25,900
Prin. Invest.: V KRASNOPOLSKY
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 11131 THE CATHOLIC UNIV OF AMERICA 3523
 EVOLUTION OF THE BASTILLE DAY SHOCK AND MERGED INTERACTION
 REGION
 07/24/2001 - 07/31/2002 FY01: \$50,000 Total: \$50,000
Prin. Invest.: Y C WHANG
Tech. Officer: GSFC/L F BURLAGA
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 11137 THE CATHOLIC UNIV OF AMERICA 3524
 CIRCUMSTELLAR ENVIRONMENTS OF EVOLVED STARS AND THEIR
 INTERACTION WITH THE INTERSTELLAR MEDIUM
 07/20/2001 - 07/31/2002 FY01: \$115,711 Total: \$115,711
Prin. Invest.: F C BRUHWEILER
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 11162 THE CATHOLIC UNIV OF AMERICA 3525
 CONSEQUENCES OF CME INTERACTION IN THE INTERPLANETARY
 MEDIUM
 08/07/2001 - 08/14/2002 FY01: \$60,000 Total: \$60,000
Prin. Invest.: N GOPALSWAMY
Tech. Officer: GSFC/M ACUNA
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 11225 THE CATHOLIC UNIV OF AMERICA 3526
 SOLAR WIND INTERACTION WITH THE MARTIAN CRUSTAL MAGNETIC
 FIELDS AND THE IMPLICATIONS FOR THE EVOLUTION
 08/13/2001 - 08/14/2003 FY01: \$75,000 Total: \$75,000
Prin. Invest.: D CRIDER
Tech. Officer: GSFC/J BOYCE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 11327 THE CATHOLIC UNIV OF AMERICA 3527
 DEVELOPMENT OF GOSSAMER CLASS TELESCOPE MIRRORS
 09/18/2001 - 03/31/2002 FY01: \$35,303 Total: \$35,303
Prin. Invest.: P C CHEN
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 11342 THE CATHOLIC UNIV OF AMERICA 3528
 NEW MODEL ATMOSPHERES AND SPECTRAL ENERGY DISTRIBUTIONS
 FOR STARS IN THE UPPER H-R DIAGRAM
 09/24/2001 - 09/30/2002 FY01: \$70,615 Total: \$70,615
Prin. Invest.: F C BRUHWEILER
Tech. Officer: GSFC/S HEAP
CASE Category: 11 - ASTRONOMY

NCC 2 1247 THE CATHOLIC UNIV OF AMERICA 3529
 HUMAN FACTORS IN DISTRIBUTED AIR-GROUND TRAFFIC MANAGEMENT
 03/26/2001 - 03/31/2002 FY01: \$30,082 Total: \$30,082
Prin. Invest.: R PARASURAMAN
Tech. Officer: ARC/R MOGFORD, ARC/P SNYDER
CASE Category: 41 - AERONAUTICAL ENGINEER

NCC 5 68 THE CATHOLIC UNIV OF AMERICA 3530
 STUDIES OF ELEMENTARY REACTIONS OF CHEMICAL IMPORTANCE IN
 THE ATMOSPHERES OF PLANETS
 04/28/1994 - 04/30/2000 FY01: -\$2,063 Total: \$774,851
Prin. Invest.: F L NESBITT
Tech. Officer: GSFC/L J STIEF
CASE Category: 12 - CHEMISTRY

NCC 5 130 THE CATHOLIC UNIV OF AMERICA 3531
 HIGH RESOLUTION SPECTROSCOPY OF COMETARY COMAE AND PLAN-
 ETARY ATMOSPHERES: IMPLEMENTATION OF THE NEW...
 02/02/1996 - 03/31/2000 FY01: -\$3,014 Total: \$142,138
Prin. Invest.: M DISANTI, M A DI SANTI
Tech. Officer: GSFC/M J MUMMA
CASE Category: 11 - ASTRONOMY

NCC 5 210 THE CATHOLIC UNIV OF AMERICA 3532
 INFRARED SPECTROSCOPY OF COMETS: AN OBSERVATIONAL STUDY OF
 COMETARY COMPOSITION AND ORIGIN.
 06/17/1997 - 05/31/2000 FY01: \$0 Total: \$158,760
Prin. Invest.: N RUSSO
Tech. Officer: GSFC/M J MUMMA
CASE Category: 11 - ASTRONOMY

NCC 5 376 THE CATHOLIC UNIV OF AMERICA 3533
 THE DRIVERS OF CORONAL AND INTERPLANETARY SHOCKS
 01/19/1999 - 01/31/2001 FY01: \$0 Total: \$59,600
Prin. Invest.: N GOPALSWAMY
Tech. Officer: GSFC/M ACUNA
CASE Category: 11 - ASTRONOMY

NCC 5 377 THE CATHOLIC UNIV OF AMERICA 3534
 THE SUN-EARTH CONNECTION: SOLAR PHYSICS, PHYSICS OF THE HELIO-
 SPHERE, AND SPACE WEATHER
 01/27/1999 - 01/31/2001 FY01: \$0 Total: \$67,540
Prin. Invest.: V ANDRETTA
Tech. Officer: GSFC/A I POLAND
CASE Category: 11 - ASTRONOMY

NCC 5 380 THE CATHOLIC UNIV OF AMERICA 3535
 INVESTIGATION OF X-RAY AND GAMMA-RAYS FROM SOLAR F LARES AND
 PLANETARY TYPE BODIES
 02/12/1999 - 03/31/2002 FY01: \$202,000 Total: \$1,014,985
Prin. Invest.: R D STARR
Tech. Officer: GSFC/L ORWIG
CASE Category: 11 - ASTRONOMY

NCC 5 418 THE CATHOLIC UNIV OF AMERICA 3536
 MAINTENANCE OF THE ISTEP/ACG CDWA DATA BASE
 08/19/1999 - 08/14/2001 FY01: \$0 Total: \$35,500
Prin. Invest.: N GOPALSWAMY
Tech. Officer: GSFC/J GURMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NCC 5 445 THE CATHOLIC UNIV OF AMERICA 3537
 INFRARED SPECTROSCOPY OF COMETS: AN OBSERVATIONAL AND
 EXPERIMENTAL STUDY OF COMETARY COMPOSITION AND
 04/20/2000 - 05/31/2001 FY01: \$34,140 Total: \$38,140
Prin. Invest.: N DELLO RUSSO, NONE
Tech. Officer: GSFC/M J MUMMA
CASE Category: 13 - PHYSICS

NCC 5 452 THE CATHOLIC UNIV OF AMERICA 3538
 CHEMICAL/PHYSICAL PROPERTIES OF PLANETARY & ASTRO- PHYSICAL
 MOLECULES
 02/03/2000 - 04/30/2005 FY01: \$377,341 Total: \$542,309
Prin. Invest.: T THORN
Tech. Officer: GSFC/J E ALLEN
CASE Category: 12 - CHEMISTRY

NCC 5 504 THE CATHOLIC UNIV OF AMERICA 3539
 SPATIAL-SPECTRAL MAPPING OF CO AND OTHER EMISSIONS IN COMETS,
 AND OF WATER IN MARS ATMOSPHERE
 06/27/2000 - 03/31/2002 FY01: \$9,180 Total: \$15,580
Prin. Invest.: M A DISANTI
Tech. Officer: GSFC/M J MUMMA
CASE Category: 13 - PHYSICS

NCC 5 512 THE CATHOLIC UNIV OF AMERICA 3540
 RENEWAL OF COOP AGREEMENT NCC-418 MAINTENANCE OF CDWA DATA
 BASE.
 08/24/2000 - 08/31/2001 FY01: \$0 Total: \$7,000
Prin. Invest.: N GOPALSWAMY
Tech. Officer: GSFC/J GURMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NCC 5 548 THE CATHOLIC UNIV OF AMERICA 3541
 HESSI DATA ANALYSIS
 04/06/2001 - 04/14/2002 FY01: \$61,400 Total: \$61,400
Prin. Invest.: D GOPALSWAMY
Tech. Officer: GSFC/B DENNIS
CASE Category: 13 - PHYSICS

NGT 1 01028 THE CATHOLIC UNIV OF AMERICA 3542
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) MY 1/3
 06/12/2001 - 06/30/2004 FY01: \$12,000 Total: \$12,000
Prin. Invest.: R PARASUROMA
Tech. Officer: LARC/D J WING
CASE Category: 41 - AERONAUTICAL ENGR

NGT 1 52190 THE CATHOLIC UNIV OF AMERICA 3543
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
 05/20/1998 - 06/30/2001 FY01: \$0 Total: \$54,001
Prin. Invest.: S M GALSTER, R PARASURAMAN
Tech. Officer: LARC/P C SHUTTE, LARC/A T POPE
CASE Category: 69 - PSYCHOLOGY, OTHER

NAG 5 4724 UNIV OF DISTRICT OF COLUMBIA 3544
 SATURDAY ACADEMY PROGRAM
 06/19/1997 - 03/31/2001 FY01: \$0 Total: \$1,768,980
Prin. Invest.: W R COLEMAN
Tech. Officer: GSFC/L RANDOLPH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9545 UNIV OF DISTRICT OF COLUMBIA 3545
 REMOTE SENSING SPECTRAL IDENTIFICATION OF FRESHWATER
 PLANKTON
 05/03/2000 - 01/14/2002 FY01: \$0 Total: \$72,143
Prin. Invest.: H L PHELPS
Tech. Officer: GSFC/D MENCHAN
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 5 10855 UNIV OF DISTRICT OF COLUMBIA 3546
 RETAINING HIGH POTENTIAL JUNIOR AND SENIOR HIGH SCHOOL
 STUDENTS
 05/02/2001 - 04/30/2002 FY01: \$295,047 Total: \$295,047
Prin. Invest.: W COLEMAN
Tech. Officer: GSFC/C HOLLINSWORTH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 196 UNIV OF DISTRICT OF COLUMBIA 3547
 PARTNERSHIP AWARD WITH MINORITY UNIVERSITIES AND C
 05/22/1997 - 06/30/2000 FY01: \$0 Total: \$400,000
Prin. Invest.: G WYCHE-MOORE
Tech. Officer: GSFC/E ENGMAN
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NCC 5 421 UNIV OF DISTRICT OF COLUMBIA 3548
 ANACOSTIA RIVER INST FOR REMOTE SENSING: A COMMUNITY REMOTE-
 SENSING PROGRAM
 09/21/1999 - 09/30/2001 FY01: \$0 Total: \$100,000
Prin. Invest.: G WYCHE-MOORE
Tech. Officer: GSFC/D T TOLL
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

FLORIDA

NAG10 195 BETHUNE - COOKMAN COLLEGE 3549
 OPERATION OF THE CNTR FOR SPACE EDUCATION
 09/11/1996 - 09/30/2001 FY01: \$121,627 Total: \$1,691,580
Prin. Invest.: G W BECKLES, A E LONG
Tech. Officer: KSC/S DUTCZAK
CASE Category: 41 - AERONAUTICAL ENGR

NAG10 269 BETHUNE - COOKMAN COLLEGE 3550
 NASA/FLORIDA MINORITY INST ENTREPRENEURIAL PARTNERSHIP
 09/13/1999 - 10/31/2001 FY01: \$300,000 Total: \$1,200,000
Prin. Invest.: A D TAYLOR
Tech. Officer: KSC/W B WILLIAMS
CASE Category: 79 - SOCIAL SCIENCE, OTHER

NCC 5 426 BETHUNE - COOKMAN COLLEGE 3551
 A BETTER, FASTER AND INEXPENSIVE PHOTOGRAMMETRY SYSTEM
 09/07/1999 - 08/31/2002 FY01: \$0 Total: \$199,991
Prin. Invest.: E F EKPO
Tech. Officer: GSFC/S E HETHERINGTON
CASE Category: 13 - PHYSICS

NCC10 55 BETHUNE - COOKMAN COLLEGE 3552
 OPERATION AT THE CENTER FOR SPACE EDUCATION
 09/24/2001 - 09/24/2006 FY01: \$361,258 Total: \$361,258
Prin. Invest.: A LONG
Tech. Officer: KSC/S DUTCZAK, KSC/P SAILER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 11097 ECKERD COLLEGE 3553
 INFRARED SPECTRA OF COSMIC-TYPE ICES CONTAINING NITROGEN
 07/06/2001 - 07/14/2002 FY01: \$10,000 Total: \$10,000
Prin. Invest.: R L HUDSON
Tech. Officer: GSFC/M H MOORE
CASE Category: 12 - CHEMISTRY

NAG 5 5199 EMBRY-RIDDLE AERONAUTICAL UNIV 3554
 ICE CONTENT AND ODD-OXYGEN IN NOCTILUCENT-CLOUDS (ICON)
 06/18/1998 - 03/31/2002 FY01: \$0 Total: \$313,791
Prin. Invest.: P J ESPY
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 - PHYSICS

NAG 5 5265 EMBRY-RIDDLE AERONAUTICAL UNIV 3555
 FIRST YEAR FUNDING/ CYROGENIC WHOLE AIR SAMPLING OF CARBON
 DIOXIDE IN THE UPPER MESOSPHERE
 04/12/2000 - 03/23/2003 FY01: \$96,100 Total: \$218,300
Prin. Invest.: P W ERDMAN
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 - PHYSICS

NAG 5 10066 EMBRY-RIDDLE AERONAUTICAL UNIV 3556
 ENERGETICS & DYNAMICS OF THE MESOSPHERE & LOWER THERMO-
 SPHERE; TIMED/CEDAR COLLABORATIVE STUDIES
 10/31/2000 - 04/30/2002 FY01: \$198,600 Total: \$198,600
Prin. Invest.: G G SIVJEE
Tech. Officer: GSFC/M MELLOTT
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCA 1 133 EMBRY-RIDDLE AERONAUTICAL UNIV 3557
 1996 AGATE - GENERAL AVIATION
 07/23/1996 - 10/31/2001 FY01: \$506,800 Total: \$3,822,800
Prin. Invest.: S HAMPTON
Tech. Officer: LARC/B J HOLMES, LARC/M H DURHAM
CASE Category: 41 - AERONAUTICAL ENGR

NCA 1 01003 EMBRY-RIDDLE AERONAUTICAL UNIV 3558
 SOUTHEAST SATSLAB
 08/31/2001 - 04/30/2002 FY01: \$500,000 Total: \$500,000
Prin. Invest.: S HAMPTON
Tech. Officer: LARC/J R BURLEY
CASE Category: 41 - AERONAUTICAL ENGR

NCC 3 685 EMBRY-RIDDLE AERONAUTICAL UNIV 3559
 SILICON CARBIDE DIODE MIXERS FOR IMPROVED SAFETY I N AIRCRAFT
 RF AVIONICS
 03/04/1999 - 01/26/2002 FY01: \$24,025 Total: \$73,025
Prin. Invest.: A HELFRICK
Tech. Officer: GRC/P G NEUDECK
CASE Category: 45 - ELECTRICAL ENGR

NAG 2 1384 FLA INTERNATIONAL UNIV 3560
 DEVELOPING AN ADVANCED EENVIRONMENT FOR COLLABORAT IVE
 COMPUTING BY AUGMENTING POSTDOC
 09/15/1999 - 12/31/2001 FY01: \$57,000 Total: \$200,000
Prin. Invest.: I R FERNANDEZ
Tech. Officer: ARC/H T STEWART, ARC/S LAU
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 2 1440 FLA INTERNATIONAL UNIV 3561
 SPECIFICATION & ANALYSIS OF SOFTWARE ARCHITECTURES OF HIGH
 ASSURANCE SYSTEMS
 09/26/2000 - 09/14/2002 FY01: \$97,688 Total: \$194,845
Prin. Invest.: X HE, X HE
Tech. Officer: ARC/B J COLLINS/D JAMES
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 3826 FLA INTERNATIONAL UNIV 3562
 BASIC RESEARCH IN ATOMIC, MOLECULAR AND OPTICAL PHYSICS IN
 SUPPORT OF NASA STRATEGIC ENTERPRISES
 01/29/1997 - 01/31/2001 FY01: \$0 Total: \$298,794
Prin. Invest.: K HARDY
Tech. Officer: GSFC/R HARTLE
CASE Category: 11 - ASTRONOMY

NAG 5 8156 FLA INTERNATIONAL UNIV 3563
 AVIRIS IMAGE CLASSIFICATION USING PHYTOPLANKTON RE FLECTANCE
 SPECTRA
 02/02/1999 - 01/31/2001 FY01: \$0 Total: \$14,222
Prin. Invest.: L L RICHARDSON
Tech. Officer: GSFC/J W CAMPBELL
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8791 FLA INTERNATIONAL UNIV 3564
 A STUDY OF THEFINAL PRODUCT STATES OF THE DISSOCIA TIVE RECOM-
 BINATION REACTION BY TOFSPECTROSCOPY
 08/31/1999 - 08/31/2002 FY01: \$41,056 Total: \$198,472
Prin. Invest.: K HARDY
Prin. Invest.: NONE
Tech. Officer: GSFC/R HARTLE
CASE Category: 13 - PHYSICS

NAG 5 9478 FLA INTERNATIONAL UNIV 3565
 HIGH PERFORMANCE DATABASE MANAGEMENT WITH APPLICAT ION TO
 EARTH SCIENCE
 04/25/2000 - 04/30/2002 FY01: \$500,000 Total: \$1,000,000
Prin. Invest.: N RISHE
Tech. Officer: GSFC/D MENCHAN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG10 212 FLA INTERNATIONAL UNIV 3566
 APPLIED RESEARCH IN INDUSTRIAL & SYSTEMS ENGINEERING (ARISE)
 CENTER
 08/29/1997 - 08/31/2001 FY01: \$0 Total: \$399,960
Prin. Invest.: M A CENTENO
Tech. Officer: KSC/A MITSKEVICH
CASE Category: 49 - ENGINEERING, OTHER

NAG10 251 **FLA INTERNATIONAL UNIV** **3567**
 MATHEMATICS, SCIENCE & TECH ACHIEVEMENT (MSTA)
 09/23/1998 – 09/22/2001 FY01: \$0 Total: \$299,994
Prin. Invest.: C MENDEZ
Tech. Officer: KSC/R MC KINNEY
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG10 254 **FLA INTERNATIONAL UNIV** **3568**
 PROGRAM
 05/01/1999 – 07/01/2002 FY01: \$200,000 Total: \$599,982
Prin. Invest.: C MENDEZ
Tech. Officer: KSC/R MCKINNEY
CASE Category: 79 – SOCIAL SCIENCE, OTHER

NAG10 259 **FLA INTERNATIONAL UNIV** **3569**
 MSTA – MATH, SCIENCE & TECHNOLOGY ACHIEVEMENT
 05/01/1999 – 08/14/2002 FY01: \$100,000 Total: \$300,000
Prin. Invest.: I BECCERA-FERNANDEZ
Tech. Officer: KSC/S ROBERTS
CASE Category: 22 – COMPUTER SCIENCE

NAG10 268 **FLA INTERNATIONAL UNIV** **3570**
 PROJECT VISION: VERY INTENSIVE SCIENTIFIC INTERC URRICULAR
 ON-SITE EDUCATION
 09/09/1999 – 12/31/2001 FY01: \$298,026 Total: \$795,753
Prin. Invest.: G A ROIG
Tech. Officer: KSC/R J MCKINNEY
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG10 292 **FLA INTERNATIONAL UNIV** **3571**
 SPACEPORT TECHHNOLOGY CENTER AND WORK INSTRUCTION DELIVERY
 INITIATIVE
 09/29/2000 – 08/31/2001 FY01: \$0 Total: \$60,238
Prin. Invest.: M CENTENO
Tech. Officer: KSC/M GROH-HAMMOND
CASE Category: 22 – COMPUTER SCIENCE

NAG10 307 **FLA INTERNATIONAL UNIV** **3572**
 ENHANCING THE SCOPE AND FUNCTIONALITY OF SAGE (SEA RCHABLE
 ANSWER GENERATING ENVIRONMENT)
 09/28/2001 – 02/28/2002 FY01: \$25,000 Total: \$25,000
Prin. Invest.: I BECERRA-FERNANDEZ
Tech. Officer: KSC/O MELENDEZ
CASE Category: 22 – COMPUTER SCIENCE

NAG10 309 **FLA INTERNATIONAL UNIV** **3573**
 BRINGING SCIENCE AND TECHNOLOGY TO HISPANIC YOUTH THROUGH
 TELEVISED, SPANISH-LANGUAGEMEDIA: BRIDGIN
 09/28/2001 – 08/31/2002 FY01: \$154,667 Total: \$154,667
Prin. Invest.: G ROIG
Tech. Officer: KSC/J NUNEZ
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 01057 **FLORIDA A&M UNIV** **3574**
 ACTIVE CONTROL OF BOUNDARY-LAYER SEPARATION AND FLOW DISTOR-
 TION IN ADVERSE PRESSURE GRADIENT FLOWS
 03/27/2001 – 03/31/2004 FY01: \$80,981 Total: \$80,981
Prin. Invest.: F S ALVI, C SHIH
Tech. Officer: LARC/S A GORTON
CASE Category: 41 – AERONAUTICAL ENGR

NAG 2 1439 **FLORIDA A&M UNIV** **3575**
 INVESTIGATION OF THE ELECTRONIC PROPERTIES OF DIST ORTED
 CARBON NANOTUBES
 09/21/2000 – 08/31/2001 FY01: \$89,433 Total: \$186,755
Prin. Invest.: M ENCINOSA
Tech. Officer: ARC/B J COLLINS, ARC/D JAMES
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 3 1759 **FLORIDA A&M UNIV** **3576**
 A GRADUATE FELLOWSHIP COMPONENT TO AUGMENT PROGRAM IMAGE
 06/14/1995 – 12/14/2001 FY01: \$356,500 Total: \$1,522,879
Prin. Invest.: F S HUMPHRIES, F J FOREMAN, NONE
Tech. Officer: GRC/J E BOYD
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 3 1971 **FLORIDA A&M UNIV** **3577**
 CUBIC BORON NITRIDE ALPHAVOLTAIC DEVICES
 09/21/1996 – 12/31/1999 FY01: -\$5,294 Total: \$254,211
Prin. Invest.: S M DURBIN
Tech. Officer: GRC/G C RYBICKI
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 2193 **FLORIDA A&M UNIV** **3578**
 ROBUST FAULT DETECTION AND ISOLATION FOR NASA LAUN CH
 VEHICLES
 09/01/1998 – 08/31/2001 FY01: \$80,129 Total: \$234,476
Prin. Invest.: E G COLLINS
Tech. Officer: GRC/T GUO
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 3 2387 **FLORIDA A&M UNIV** **3579**
 LATTICE-BOLTZMANN TECHNIQUES FOR MULTIPHASE FLOW T RANSPORT
 IN MICROGRAVITY ENVIRONMENT
 04/11/2000 – 11/15/2001 FY01: \$0 Total: \$0
Prin. Invest.: D CHELLA
Tech. Officer: GRC/F P CHIARAMONTE
CASE Category: 49 – ENGINEERING, OTHER

NAG 4 164 **FLORIDA A&M UNIV** **3580**
 EVOLUTIONARY ALGORITHMS
 02/26/1999 – 02/25/2001 FY01: \$48,208 Total: \$225,000
Prin. Invest.: M ABDUDLLAH, F HAMILTON
Tech. Officer: DFRC/K GUPTA, DFRC/E COX
CASE Category: 41 – AERONAUTICAL ENGR

NAG 5 7989 **FLORIDA A&M UNIV** **3581**
 LINKAGES 2001
 12/31/1998 – 02/29/2000 FY01: \$0 Total: \$200,000
Prin. Invest.: D H AMMONS
Tech. Officer: GSFC/J L HARRINGTON, JR.
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 9119 **FLORIDA A&M UNIV** **3582**
 LINKAGES 2001 PROJECT
 02/24/2000 – 01/31/2001 FY01: \$0 Total: \$500,000
Prin. Invest.: J H AMMONS
Tech. Officer: GSFC/J MALONE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 9420	FLORIDA A&M UNIV	3583	NAG10 272	FLORIDA A&M UNIV	3591
ELECTROCHEMICAL CAPACITORS & HYBRID POWER SOURCES FOR SPACE APPLICATIONS			FAULT TOLERANT ROBOT ANALYSIS AND DESIGN		
04/11/2000 - 04/30/2002	FY01: \$99,849	Total: \$197,835	09/27/1999 - 09/20/2000	FY01: -\$145	Total: \$92,125
<i>Prin. Invest.:</i> J ZHENG			<i>Prin. Invest.:</i> R G ROBERTS		
<i>Tech. Officer:</i> GSFC/J MALONE			<i>Tech. Officer:</i> KSC/W C JONES		
<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER			<i>CASE Category:</i> 49 - ENGINEERING, OTHER		
NAG 5 10148	FLORIDA A&M UNIV	3584	NAG10 289	FLORIDA A&M UNIV	3592
COLLISION PROCESSES IN ASTROPHYSICAL PLASMAS			WIRELESS SPREAD-SPECTRUM INTERCOMMUNICATION SYSTEM WIRELESS SPREAD-SPECTRUM INTERCOMMUNICATION SYSTEM		
12/08/2000 - 12/31/2001	FY01: \$175,427	Total: \$175,427	07/11/2000 - 06/07/2003	FY01: \$97,315	Total: \$193,581
<i>Prin. Invest.:</i> C A WEATHERFORD			<i>Prin. Invest.:</i> B A HARVEY	<i>Prin. Invest.:</i> NONE	
<i>Tech. Officer:</i> GSFC/P SAKIMOTO			<i>Tech. Officer:</i> KSC/F MCKENZIE		
<i>CASE Category:</i> 11 - ASTRONOMY			<i>CASE Category:</i> 45 - ELECTRICAL ENGR		
NAG 5 10726	FLORIDA A&M UNIV	3585	NAG13 41	FLORIDA A&M UNIV	3593
LINKAGES 2001 PROJECT			LABILE AND STABLE SOC POOLS REVEALED BY C-14 AND C-13 SIGNATURES		
04/09/2001 - 03/31/2002	FY01: \$250,000	Total: \$250,000	09/27/1996 - 06/26/2000	FY01: -\$5,599	Total: \$283,306
<i>Prin. Invest.:</i> K H PHIFER-MCGHEE			<i>Prin. Invest.:</i> Y P HSIEH		
<i>Tech. Officer:</i> GSFC/J MALONE			<i>Tech. Officer:</i> SSC/A JOYCE		
<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER			<i>CASE Category:</i> 54 - ENVIRONMENTAL BIOLOGY		
NAG10 238	FLORIDA A&M UNIV	3586	NCC 1 252	FLORIDA A&M UNIV	3594
MINORITY ACCESS TO GRAD ENGR PROGRAM			CENTER FOR NONLINEAR AND NONEQUILIBRIUM AEROSCIENCES (CENNAS)		
12/17/1997 - 12/16/2002	FY01: \$1,260,000	Total: \$5,733,056	04/23/1997 - 12/31/2001	FY01: \$1,200,000	Total: \$5,200,000
<i>Prin. Invest.:</i> F S HUMPHRIES			<i>Prin. Invest.:</i> J JOHNSON		
<i>Tech. Officer:</i> KSC/E SMITH			<i>Tech. Officer:</i> LARC/W SELLERS		
<i>CASE Category:</i> 49 - ENGINEERING, OTHER			<i>CASE Category:</i> 41 - AERONAUTICAL ENGR		
NAG10 242	FLORIDA A&M UNIV	3587	NCC 2 956	FLORIDA A&M UNIV	3595
MAPSTAP			A COPPERATIVE RESEARCH PROGRAM IN AERONAUTICAL INFORMATION SCIENCE TECHNOLOGIES		
05/13/1998 - 05/31/2002	FY01: \$0	Total: \$599,997	07/01/1996 - 02/28/2001	FY01: \$0	Total: \$1,316,338
<i>Prin. Invest.:</i> B SAMUELS			<i>Prin. Invest.:</i> A KROTHAPALLI, L LOURENCO, S WALKER		
<i>Tech. Officer:</i> KSC/E JOHNSON			<i>Tech. Officer:</i> ARC/J C ROSS, ARC/P T SODERMAN		
<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER			<i>CASE Category:</i> 41 - AERONAUTICAL ENGR		
NAG10 248	FLORIDA A&M UNIV	3588	NCC 2 1005	FLORIDA A&M UNIV	3596
PRODIGY 2000			DEVELOPMENT OF A TRANSDERMAL DELIVERY DEVICE FOR MELATONIN IN VIVO		
09/23/1998 - 09/22/2001	FY01: \$0	Total: \$300,000	08/25/1997 - 07/31/2002	FY01: -\$54,931	Total: \$276,406
<i>Prin. Invest.:</i> B MCCUNE			<i>Prin. Invest.:</i> M S SACHDEVA, NONE		
<i>Tech. Officer:</i> KSC/R MCKINNEY			<i>Tech. Officer:</i> ARC/C M WINGET, ARC/G S LEE		
<i>CASE Category:</i> 62 - PSYCHOLOGY SOCIAL ASPECTS			<i>CASE Category:</i> 51 - BIOLOGY (EXCLUDING ENVIR)		
NAG10 264	FLORIDA A&M UNIV	3589	NCC 2 1018	FLORIDA A&M UNIV	3597
ELECTROSTATIC CHARGING, PRECIPITATION, ADHESION, AND DISSIPATION IN THE MARTIAN ATMOSPHERE			INTEGRATED DESIGN SYSTEMS TECHNOLOGY		
08/01/1999 - 10/31/2001	FY01: \$93,577	Total: \$192,574	02/12/1998 - 12/31/2000	FY01: \$0	Total: \$480,263
<i>Prin. Invest.:</i> F B GROSS			<i>Prin. Invest.:</i> A KROTHAPALLI		
<i>Tech. Officer:</i> KSC/R LEE			<i>Tech. Officer:</i> ARC/M E LIVINGSTON, ARC/D J KOGA		
<i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE			<i>CASE Category:</i> 41 - AERONAUTICAL ENGR		
NAG10 267	FLORIDA A&M UNIV	3590	NCC 2 1221	FLORIDA A&M UNIV	3598
PROJECT DISCOVER II SBI/NASA INTERNSHIPS PROJECT DISCOVER II SBI/NASA INTERNSHIPS			A COOPERATIVE RESEARCH PROGRAM IN AERONAUTICAL INFORMATION SCIENCE TECHNOLOGIES		
09/09/1999 - 12/31/2001	FY01: \$204,265	Total: \$443,689	03/22/2001 - 03/15/2002	FY01: \$349,927	Total: \$349,927
<i>Prin. Invest.:</i> S C MOBLEY			<i>Prin. Invest.:</i> A KROTHAPALLI, C SHIH, L LOURENCO		
<i>Tech. Officer:</i> KSC/R J MCKINNEY			<i>Tech. Officer:</i> ARC/G K YAMAUCHI, ARC/J C ROSS		
<i>CASE Category:</i> 79 - SOCIAL SCIENCE, OTHER			<i>CASE Category:</i> 41 - AERONAUTICAL ENGR		

NAG 1 1993 **FLORIDA ATLANTIC UNIV** **3599**
 BROADBAND FAN NOISE FROM TURBULENT VORTICAL FLOWS INCIDENT
 ON STATOR VANES
 01/15/1998 – 04/14/2000 FY01: -\$1 Total: \$142,018
Prin. Invest.: S L GLEGG, M DHANAK
Tech. Officer: LARC/J W POSEY, LARC/F FARASSAT
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 2115 **FLORIDA ATLANTIC UNIV** **3600**
 FUNDAMENTAL ISSUES ON INTERRELATION BETWEEN SAFETY FACTORS
 AND UNCERTANINTY ANALYSIS
 10/29/1998 – 06/30/2000 FY01: -\$319 Total: \$49,681
Prin. Invest.: T ELISHAKOFF
Tech. Officer: LARC/J H STARNES, JR.
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 01079 **FLORIDA ATLANTIC UNIV** **3601**
 MODIFIED AND ADVANCED FORMULATIONS FOR UNCERTAINTY ANALYSIS
 IN STRUCTURES ANALYSIS
 06/01/2001 – 01/31/2002 FY01: \$33,095 Total: \$33,095
Prin. Invest.: I ELISHAKOFF
Tech. Officer: LARC/W J STROUD, LARC/I S RAJU
CASE Category: 46 – MECHANICAL ENGR

NAG 3 2023 **FLORIDA ATLANTIC UNIV** **3602**
 SPACE COMMUNICATIONS TECHNOLOGY CENTER
 03/12/1997 – 01/15/2002 FY01: \$325,000 Total: \$1,404,999
Prin. Invest.: W E GLENN, H HELMKEN
Tech. Officer: GRC/T P BIZON
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 2319 **FLORIDA ATLANTIC UNIV** **3603**
 MODELING OF THE UNSTEADY INTERNAL FLOWS IN AEROENGINES FOR
 NOISE PREDICTION CODES
 01/11/2000 – 03/31/2001 FY01: -\$1,001 Total: \$96,379
Prin. Invest.: S A GLEGG
Tech. Officer: GRC/E ENVIA
CASE Category: 41 – AERONAUTICAL ENGR

NAS 3 26956 **FLORIDA ATLANTIC UNIV** **3604**
 ACTS PROPAGATION EXPERIMENTS
 06/21/1993 – 01/30/2002 FY01: \$40,000 Total: \$406,278
Prin. Invest.: H F HELMKEN
Tech. Officer: GRC/R J GUNDERMAN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NCC 2 1141 **FLORIDA ATLANTIC UNIV** **3605**
 ACHIEVING HIGH SOFTWARE RELIABILITY
 09/17/1999 – 09/30/2000 FY01: \$139,000 Total: \$274,762
Prin. Invest.: T G KHOSGOFTAR
Tech. Officer: ARC/S YASSINI, ARC/D OZBURN
CASE Category: 22 – COMPUTER SCIENCE

NCC 2 5264 **FLORIDA ATLANTIC UNIV** **3606**
 AN INVESTIGATION OF HINGELESS-ROTOR TRIM & STABILITY WITH
 EXPERIMENTAL CORRELATION
 04/23/1998 – 12/31/2000 FY01: -\$17 Total: \$20,126
Prin. Invest.: G H GEONKAR
Tech. Officer: ARC/T H MAIER
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 1 2260 **FLORIDA INST OF TECHNOLOGY** **3607**
 MODELING COMPOSITES LAMINATE CRUSHING FOR CRASH ANALYSIS
 01/12/2000 – 12/15/2001 FY01: \$31,066 Total: \$51,066
Prin. Invest.: D C FLEMING
Tech. Officer: LARC/L E JONES
CASE Category: 46 – MECHANICAL ENGR

NAG 2 1508 **FLORIDA INST OF TECHNOLOGY** **3608**
 GRAVITATIONAL IMPACTS ON THE CELL CYCLE
 07/23/2001 – 07/31/2002 FY01: \$82,568 Total: \$82,568
Prin. Invest.: C E HELMSTETTER
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 3103 **FLORIDA INST OF TECHNOLOGY** **3609**
 WHITE DWARF EVOLUTION AND AGE AND EVOLUTION OF THE GALAXY
 10/11/1995 – 10/14/2000 FY01: -\$6,572 Total: \$166,428
Prin. Invest.: M A WOOD
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 10888 **FLORIDA INST OF TECHNOLOGY** **3610**
 COSMIC RAY INTERSTELLAR PROPAGATION (ATP 2000)
 05/09/2001 – 05/14/2002 FY01: \$63,292 Total: \$63,292
Prin. Invest.: M ZHANG
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 11036 **FLORIDA INST OF TECHNOLOGY** **3611**
 STUDIES OF COSMIC RAY MODULATION & ENERGETIC PARTICLE PROP-
 AGATION IN TIME-DEPENDENT 3-DIMENSION
 06/12/2001 – 07/31/2002 FY01: \$101,160 Total: \$101,160
Prin. Invest.: M ZHANG
Tech. Officer: GSFC/W WAGNER
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 8 1582 **FLORIDA INST OF TECHNOLOGY** **3612**
 "NEW CELL CULTURE TECHNOLOGY"
 03/01/1999 – 11/30/2002 FY01: \$124,450 Total: \$351,450
Prin. Invest.: C HELMSTALTER
Tech. Officer: MSFC/B GUYNES
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NGT 5 50257 **FLORIDA INST OF TECHNOLOGY** **3613**
 TECHNOLOGIES FOR ASSESSING THE EFFECTS OF LONG-TERM SPACE
 HABITATION ON CELLULAR AGING_ STUDENT: K
 07/09/1999 – 06/30/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: C HELMSTETTER
Tech. Officer: GSFC/L SMITH
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 50290 **FLORIDA INST OF TECHNOLOGY** **3614**
 THE LUMINOSITY FUNCTION & THE CHROMOSPHERIC ACTIVITY-AGE
 RELATION FOR M DWARF STARS IN COMMON PROP
 06/27/2000 – 06/30/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: T OSWALT
Tech. Officer: GSFC/L SMITH
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT10 52621 **FLORIDA INST OF TECHNOLOGY** **3615**
 TRAINING GRANT UNDER A GRADUATE STUDENT RESEARCHERS
 PROGRAM
 06/22/1999 – 08/05/2000 FY01: -\$5,963 Total: \$16,037
Prin. Invest.: R LANIER
Tech. Officer: KSC/J MEDINA
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT10 52622 **FLORIDA INST OF TECHNOLOGY** **3616**
 TRAINING GRANT UNDER A GRADUATE STUDENT RESEARCHERS
 PROGRAM
 07/02/1999 – 10/31/2001 FY01: \$0 Total: \$22,000
Prin. Invest.: M BUSH
Tech. Officer: KSC/R WHEELER
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG10 247 **FLORIDA MEMORIAL COLLEGE** **3617**
 INITIATIVE FOR AFRICAN AMERICAN/UNDER REPRESENTED STUDENTS
 08/01/1998 – 08/31/2001 FY01: \$0 Total: \$527,713
Prin. Invest.: H HUISSO
Tech. Officer: KSC/R MC KINNEY
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 1 1889 **FLORIDA STATE UNIV** **3618**
 PREDICTION OF COMPRESSIBLE JET FLOW FIELDS AND AERODYNAMIC
 SOUND_FIELD
 01/09/1997 – 12/31/2000 FY01: -\$1 Total: \$434,507
Prin. Invest.: M Y HUSSANI
Tech. Officer: LARC/J M SEINER, LARC/M K PONTON
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 1986 **FLORIDA STATE UNIV** **3619**
 MICRO-AND MACRO-FLUID DYNAMICS AND ACOUSTICS OF RESONANT
 LINERS
 01/02/1998 – 12/31/2001 FY01: \$1 Total: \$225,001
Prin. Invest.: K W TAM
Tech. Officer: LARC/W R WATSON, LARC/T L PARROTT
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 2078 **FLORIDA STATE UNIV** **3620**
 NOISE SUPPRESSION OF HEATED SUPERSONIC JETS BY WATER INJECTION
 06/16/1998 – 04/30/2001 FY01: \$1 Total: \$219,422
Prin. Invest.: A KROTHAPALLI, L LOURENCO
Tech. Officer: LARC/M K NORUM, LARC/M K PONTON
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 2127 **FLORIDA STATE UNIV** **3621**
 DYNAMICAL FACTORS CONTROLLING OZONE, OH AND AEROSOL LEVELS
 OVER THE PEM-TROPICS B REGION
 01/20/1999 – 12/31/2001 FY01: \$53,375 Total: \$203,000
Prin. Invest.: T N KRISHNAURTI
Tech. Officer: LARC/J R RAPER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 2145 **FLORIDA STATE UNIV** **3622**
 AIRFRAME-JET ENGINE INTEGRATION NOISE
 03/30/1999 – 12/31/2001 FY01: \$100,000 Total: \$300,000
Prin. Invest.: C K TAM
Tech. Officer: LARC/R R ANTCLIFF
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 01031 **FLORIDA STATE UNIV** **3623**
 DISCONTINUOUS SPECTRAL ELEMENT AEROACOUSTIC CODE FOR FAN
 NOISE RADIATION
 02/08/2001 – 11/30/2003 FY01: \$53,070 Total: \$53,070
Prin. Invest.: M Y HUSSANI
Tech. Officer: LARC/F FARASSAT, LARC/R H THOMAS
CASE Category: 41 – AERONAUTICAL ENGR

NAG 3 1841 **FLORIDA STATE UNIV** **3624**
 THERETICAL STUDIES OF LIQUID HELIUM NEAR THE SUPER FLUID TRANSITION
 05/01/1996 – 01/07/2002 FY01: \$11,000 Total: \$291,000
Prin. Invest.: E MANOUSAKIS, NONE
Tech. Officer: GRC/B S SINGH
CASE Category: 13 – PHYSICS

NAG 3 1885 **FLORIDA STATE UNIV** **3625**
 FLUID PHYSICS IN STOCHASTIC ACCELERATION ENVIRONMENT
 06/17/1996 – 06/16/2001 FY01: \$0 Total: \$434,901
Prin. Invest.: J VINALS
Tech. Officer: GRC/A CHAIT
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 2102 **FLORIDA STATE UNIV** **3626**
 NUMERICAL SIMULATION OF SCREECH TONES FROM SUPERSONIC JETS:
 PHYSICS & PREDICTIONS
 12/24/1997 – 11/30/2001 FY01: \$0 Total: \$247,500
Prin. Invest.: C K TAM
Tech. Officer: GRC/K Q ZAMAN
CASE Category: 46 – MECHANICAL ENGR

NAG 3 2327 **FLORIDA STATE UNIV** **3627**
 ADVANCED COMPUTATIONAL AEROACOUSTICS METHODS FOR FAN
 NOISE PREDICTIONS
 02/07/2000 – 01/11/2003 FY01: \$0 Total: \$100,000
Prin. Invest.: C TAM
Tech. Officer: GRC/E ENVIA
CASE Category: 41 – AERONAUTICAL ENGR

NAG 3 2445 **FLORIDA STATE UNIV** **3628**
 LATTICE-BOLTZMANN TECHNIQUES FOR MULTIPHASE FLOW TRANSPORT
 IN MICROGRAVITY ENVIRONMENT
 05/25/2000 – 05/18/2002 FY01: \$92,905 Total: \$132,828
Prin. Invest.: D CHELLA
Tech. Officer: GRC/F P CHIARAMONTE
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 4729 **FLORIDA STATE UNIV** **3629**
 INITIALIZATION AND HIGH RESOLUTION GLOBAL PREDICTED DATA FROM
 TRMM PROGRAM AREA: MODELING, ANALYSIS,
 07/03/1997 – 06/30/2000 FY01: \$0 Total: \$378,445
Prin. Invest.: T N KRISHNAMURTI
Tech. Officer: GSFC/O W THIELE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4752 **FLORIDA STATE UNIV** **3630**
 VALIDATING TRMM-DERIVED LATENT HEATING DISTRIBUTION COMBINED-
 INSTRUMENT RETRIEVAL ALGORITHM INCLUDING IMPACT
 06/18/1997 – 05/31/2000 FY01: \$0 Total: \$439,500
Prin. Invest.: E A SMITH
Tech. Officer: GSFC/A J NEGRI
CASE Category: 31 – ATMOSPHERIC SCIENCE

<p>NAG 5 4873 FLORIDA STATE UNIV 3631 USING NASA FULL PHYSICS ADJOINT OF THE GEOS-1 GCM ANALYSIS, SENSITIVITY ANALYSIS AND OPTIMAL SENSOR 07/03/1997 - 05/31/2002 FY01: \$140 Total: \$323,576 <i>Prin. Invest.:</i> I NAVON <i>Tech. Officer:</i> GSFC/M HALL <i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE</p>	<p>NAG 5 7618 FLORIDA STATE UNIV 3638 ANNUAL MARINE PRIMARY PRODUCTION ALGORITHM DEVELOP MENT AND APPLICATION TO MODIS DATA 09/08/1998 - 07/31/2001 FY01: \$0 Total: \$156,053 <i>Prin. Invest.:</i> R L IVERSON <i>Tech. Officer:</i> GSFC/W ESAIAS <i>CASE Category:</i> 33 - OCEANOGRAPHY</p>
<p>NAG 5 4921 FLORIDA STATE UNIV 3632 SIBERIAN PERMAFROST: APPLICATIONS TO MARS 07/07/1997 - 05/31/2000 FY01: \$0 Total: \$117,372 <i>Prin. Invest.:</i> D FRIEDMANN <i>Tech. Officer:</i> GSFC/M A MEYER <i>CASE Category:</i> 51 - BIOLOGY (EXCLUDING ENVIR)</p>	<p>NAG 5 7630 FLORIDA STATE UNIV 3639 ZONAL PROPAGATION OF NONLINEAR OCEANIC ANOMALIES 08/10/1998 - 09/30/2001 FY01: \$118,959 Total: \$454,144 <i>Prin. Invest.:</i> W DEWAR <i>Tech. Officer:</i> GSFC/E LINDSTROM <i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER</p>
<p>NAG 5 6258 FLORIDA STATE UNIV 3633 AN INTERCOMPARISON OF THE INFLUENCE OF VEGETATION SURFACE-AT- MOSPHERE WATER EXCHANGE AND BOUNDARY LAY 08/27/1997 - 07/31/2001 FY01: \$0 Total: \$350,000 <i>Prin. Invest.:</i> E SMITH <i>Tech. Officer:</i> GSFC/D WICKLAND <i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER</p>	<p>NAG 5 7718 FLORIDA STATE UNIV 3640 VALIDATION OF TRMM LEVEL-3 PRECIPITATION DATA OVER AFRICA 10/27/1998 - 10/31/2001 FY01: \$71,804 Total: \$252,007 <i>Prin. Invest.:</i> S E NICHOLSON <i>Tech. Officer:</i> GSFC/O W THIELE <i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE</p>
<p>NAG 5 6665 FLORIDA STATE UNIV 3634 COMBINING SSM/I,T,T2 AND GOES MEASUREMENTS FOR A SATELLITE- BASEDATMOSPHERIC WATER BUDGET OF 11/25/1997 - 11/30/2001 FY01: \$0 Total: \$495,000 <i>Prin. Invest.:</i> E A SMITH <i>Tech. Officer:</i> GSFC/J C DODGE <i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER</p>	<p>NAG 5 8284 FLORIDA STATE UNIV 3641 ANALYSIS OF THE CRUSTAL MAGNETIC FIELD OF MARS 02/19/1999 - 02/28/2002 FY01: \$45,000 Total: \$128,200 <i>Prin. Invest.:</i> J C CAIN <i>Tech. Officer:</i> HQ/J BOYCE <i>CASE Category:</i> 11 - ASTRONOMY</p>
<p>NAG 5 7254 FLORIDA STATE UNIV 3635 ANOMALOUS HEAT BUDGETS IN THE INTERIOR PACIFIC OCEAN ON SEASONAL-TO-INTERANNUAL TIMESCALES AND 05/14/1998 - 04/30/2001 FY01: \$0 Total: \$87,500 <i>Prin. Invest.:</i> J J O'BRIEN <i>Tech. Officer:</i> GSFC/E LINDSTROM <i>CASE Category:</i> 33 - OCEANOGRAPHY</p>	<p>NAG 5 8291 FLORIDA STATE UNIV 3642 THERMODYNAMICS IN LAYERED MODELS 02/25/1999 - 02/28/2002 FY01: \$59,370 Total: \$261,628 <i>Prin. Invest.:</i> W WEWAR <i>Tech. Officer:</i> GSFC/M RIENECKER <i>CASE Category:</i> 33 - OCEANOGRAPHY</p>
<p>NAG 5 7302 FLORIDA STATE UNIV 3636 RETRIEVAL OF SURFACE RADIATION FLUXES OVER BOREAS SNOW REGIME FROM GOES 8 IMAGERY FOR APPLICATIONS T 05/04/1998 - 10/31/2000 FY01: \$0 Total: \$165,402 <i>Prin. Invest.:</i> E A SMITH <i>Tech. Officer:</i> GSFC/D E WICKLAND <i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER</p>	<p>NAG 5 8327 FLORIDA STATE UNIV 3643 ADVANCED DATA ASSIMILATION INTO OCEAN CIRCULATION MODELS DRIVEN BY NSCAT DATA & ENSO IMPACTS NORTH 04/28/1999 - 04/30/2002 FY01: \$230,000 Total: \$564,000 <i>Prin. Invest.:</i> J J O'BRIEN <i>Tech. Officer:</i> GSFC/E LINDSTROM <i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER</p>
<p>NAG 5 7577 FLORIDA STATE UNIV 3637 "REDUCTION AND ANALYSIS OF LEO SATELLITE MAGNETIC FIELD DATA"(SENH98-0077) 08/04/1998 - 07/31/2001 FY01: \$33,000 Total: \$196,000 <i>Prin. Invest.:</i> J C CAIN <i>Tech. Officer:</i> GSFC/H V FREY <i>CASE Category:</i> 32 - GEOLOGICAL SCIENCE</p>	<p>NAG 5 8598 FLORIDA STATE UNIV 3644 THE IMPACT OF VEGETATION CHANGES IN THE SAHEL ON REGIONAL SCALE HYDROLOGY 06/14/1999 - 06/30/2002 FY01: \$88,004 Total: \$219,361 <i>Prin. Invest.:</i> S E NICHOLSON <i>Tech. Officer:</i> GSFC/E T ENGMAN <i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER</p>
<p>NAG 5 8647 FLORIDA STATE UNIV 3645 "STUDY OF THE EVOLUTION OF PRECIPITATION AND CLOUD STRUC- TURES DURING THE LIFE CYCLE ... TRMM AND IS 07/19/1999 - 07/31/2002 FY01: \$28,000 Total: \$94,000 <i>Prin. Invest.:</i> G LIU <i>Tech. Officer:</i> GSFC/W B ROSSOW <i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE</p>	

NAG 5 9410 **FLORIDA STATE UNIV** **3646**
 STUDY THE IMPACT OF TOMS OZONE MEASUREMENTS ON MEAOSCALE
 PREDICTION USING MM5 4D-VAR SYSTEM
 04/11/2000 - 04/30/2001 FY01: \$0 Total: \$46,772
Prin. Invest.: X ZOU
Tech. Officer: GSFC/A J KRUEGER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9662 **FLORIDA STATE UNIV** **3647**
 SUPERENSEMBLE FORECASTS OF PRECIPITATION USING TRMM, TMI & PR
 ALGORITHMS
 06/06/2000 - 11/30/2001 FY01: \$138,463 Total: \$193,713
Prin. Invest.: T N KRISHNAMURTI
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9845 **FLORIDA STATE UNIV** **3648**
 SIBERIAN PERMAFORST: APPLICATIONS TO MARS
 08/07/2000 - 07/31/2001 FY01: \$0 Total: \$40,492
Prin. Invest.: I FRIEDMAN
Tech. Officer: GSFC/M MEYER
CASE Category: 11 - ASTRONOMY

NAG 5 9866 **FLORIDA STATE UNIV** **3649**
 RETRIEVAL OF SURFACE RADIATION FLUXES OVER BOREAS SNOW
 REGIME FROM GOES 8 IMAGERY FOR APPLICATIONS T
 08/07/2000 - 07/31/2001 FY01: \$0 Total: \$28,000
Prin. Invest.: E A SMITH
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10001 **FLORIDA STATE UNIV** **3650**
 016 OF TRMM FIELD CAMPAIGN DATA FOR VALIDATION-APP LICATION
 STUDIES WITH LEVEL 2 RAIN PROFILE ALGORI
 09/21/2000 - 11/30/2001 FY01: \$115,000 Total: \$149,435
Prin. Invest.: H A COOPER
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 10860 **FLORIDA STATE UNIV** **3651**
 VARIABILITY OF THE WESTERN INDIAN OCEAN & THE GULF OF ADEN
 05/02/2001 - 04/30/2002 FY01: \$94,007 Total: \$94,007
Prin. Invest.: D NOF
Tech. Officer: GSFC/E LINDSRTOM
CASE Category: 33 - OCEANOGRAPHY

NAG 5 11067 **FLORIDA STATE UNIV** **3652**
 APPLICATIONS OF TOMS OZONE DATA TO NUMERICAL WEATHER ANAL-
 YSIS AND FORECAST
 07/09/2001 - 07/14/2002 FY01: \$70,000 Total: \$70,000
Prin. Invest.: X ZOU, NONE
Tech. Officer: GSFC/P K BHARTA
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 8 1163 **FLORIDA STATE UNIV** **3653**
 ANALYSIS OF ELECTROPHORETIC TRANSPORT
 08/30/1995 - 08/31/2000 FY01: -\$3,050 Total: \$526,585
Prin. Invest.: B R LOCKE
Tech. Officer: MSFC/P H RHODES, MSFC/T Y MILLER
CASE Category: 43 - CHEMICAL ENGR

NAG 8 1537 **FLORIDA STATE UNIV** **3654**
 IMPACT STUDIES OF NEWER DATA SETS (COMEX-3) ON VERY HIGH
 RESOLUTION GLOBAL FORECASTS
 06/05/1998 - 10/30/2002 FY01: \$74,998 Total: \$273,035
Prin. Invest.: T N KRISHNAMURTI
Tech. Officer: MSFC/J ARNOLD
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 8 1773 **FLORIDA STATE UNIV** **3655**
 PREDICTING DYNAMIC AND STATIC CRITICAL PROPERTIES OF BULK AND
 CONFINED HELIUM.
 04/26/2001 - 04/30/2005 FY01: \$67,664 Total: \$67,664
Prin. Invest.: E MANOUSAKIS
Tech. Officer: MSFC/D HUBBARD
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1848 **FLORIDA STATE UNIV** **3656**
 ASSIMILATION, ENSEMBLE FORECASTS AND ADAPTIVE STRA TEGIES
 USING GAMES-4 DATASETS
 08/20/2001 - 09/02/2004 FY01: \$68,602 Total: \$68,602
Prin. Invest.: T N KRISHNAMURTI
Tech. Officer: MSFC/J E ARNOLD
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 1 308 **FLORIDA STATE UNIV** **3657**
 NUMERICAL SIMULATIONS AND DIAGNOSTIC STUDIES OF METEOROLOGICAL
 CONDITIONS DURING PEM-TROPICS B
 07/21/1998 - 07/31/2001 FY01: \$1 Total: \$183,118
Prin. Invest.: H E FUELBERG
Tech. Officer: LARC/J M HOELL, JR., LARC/R J BENDURA
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 1 412 **FLORIDA STATE UNIV** **3658**
 NUMERICAL SIMULATIONS AND DIAGNOSTIC STUDIES RELAT ING
 METEOROLOGY TO ATMOSPHERIC CHEMISTYR DURING
 09/18/2000 - 08/31/2003 FY01: \$98,837 Total: \$141,523
Prin. Invest.: H E FUELBERG
Tech. Officer: LARC/J L RAPER, SR
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 1 01026 **FLORIDA STATE UNIV** **3659**
 AN INVESTIGATION OF THE FLOW PHYSICS OF ACOUSTIC LINERS BY
 DIRECT NUMERICAL SIMULATION
 01/31/2001 - 12/31/2003 FY01: \$60,000 Total: \$60,000
Prin. Invest.: C K TAM
Tech. Officer: LARC/W R WATSON, LARC/M G JONES
CASE Category: 41 - AERONAUTICAL ENGR

NCC 5 292 **FLORIDA STATE UNIV** **3660**
 HIGH RESOLUTION CARBON EXCHANGE OVER LARGE-SCALE A MAZONIA
 BASED ONMODELING AND GOES SATELLITE
 06/25/1998 - 12/31/2001 FY01: \$109,913 Total: \$379,640
Prin. Invest.: E A SMITH
Tech. Officer: GSFC/D W DEERING
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 8 158	FLORIDA STATE UNIV	3661	NAG 2 1465	THE UNIV OF CENTRAL FLORIDA	3669
SOUTHEAST REGIONAL EARTH SCIENCE APPLICATIONS CENTER			VERIFICATION TOOLS FOR KSC LAUNCH CONTROL SOFTWARE		
09/25/1998 – 09/24/2003	FY01: \$0	Total: \$90,000	03/22/2001 – 03/31/2002	FY01: \$50,000	Total: \$50,000
<i>Prin. Invest.:</i> J J O'BRIEN			<i>Prin. Invest.:</i> G H WALTON		
<i>Tech. Officer:</i> MSFC/J ARNOLD			<i>Tech. Officer:</i> ARC/J PENIX		
<i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE			<i>CASE Category:</i> 22 – COMPUTER SCIENCE		
NGT 5 30116	FLORIDA STATE UNIV	3662	NAG 3 2311	THE UNIV OF CENTRAL FLORIDA	3670
SATELLITE DERIVED LAND SURFACE TEMPERATURE & ADJOI NT MODELING TECHNIQUES TO IMPROVE A SPATIAL BIOSP			IMPORTANCE OF CONJUGATE HEAT TRANSFER IN TURBINE B LADES AND VANES		
10/01/1997 – 08/31/2000	FY01: -\$1,672	Total: \$64,328	12/28/1999 – 06/01/2001	FY01: \$53,740	Total: \$103,740
<i>Prin. Invest.:</i> E SMITH			<i>Prin. Invest.:</i> D KAPAT		
<i>Tech. Officer:</i> GSFC/G ASRAR			<i>Tech. Officer:</i> GRC/J D HEIDMANN		
<i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER			<i>CASE Category:</i> 49 – ENGINEERING, OTHER		
NGT 5 30158	FLORIDA STATE UNIV	3663	NAG 5 8265	THE UNIV OF CENTRAL FLORIDA	3671
DYNAMICS AND VARIABILITY OF THE NORTH HAWAIIAN RID GE CURRENT FROMSATELLITE ALTIMETRY AND AN			INVESTIGATIONS OF MARTIAN IMPACT CRATER MORPHOLOGIES AND MORPHOMETRIES		
08/28/1998 – 12/31/2001	FY01: \$0	Total: \$66,000	02/23/1999 – 04/30/2002	FY01: \$50,000	Total: \$141,700
<i>Prin. Invest.:</i> J J O'BRIEN, LEONARDI			<i>Prin. Invest.:</i> N G BARLOW		
<i>Tech. Officer:</i> GSFC/M Y WEI			<i>Tech. Officer:</i> HQ/J BOYCE		
<i>CASE Category:</i> 39 – ENVIRONMENTAL SCI, OTHER			<i>CASE Category:</i> 11 – ASTRONOMY		
NGT 5 30164	FLORIDA STATE UNIV	3664	NAG 5 9548	THE UNIV OF CENTRAL FLORIDA	3672
NONLINEAR EXCHANGE PROCESSES BETWEEN THE PACIFIC AND THE INDIAN OCEAN			TRMM VALIDATION: IMPROVED ZR RELATIONSHIP FROM TEFLUN-B & TROPICAL CYCLONE WINDS & PRECIPITATION		
08/31/1998 – 08/31/2002	FY01: \$0	Total: \$58,000	05/30/2000 – 05/31/2002	FY01: \$126,000	Total: \$193,667
<i>Prin. Invest.:</i> D NOF, H SIMMONS			<i>Prin. Invest.:</i> W JONES		
<i>Tech. Officer:</i> GSFC/M Y WEI			<i>Tech. Officer:</i> GSFC/R J LAWRENCE		
<i>CASE Category:</i> 39 – ENVIRONMENTAL SCI, OTHER			<i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE		
NGT 5 30186	FLORIDA STATE UNIV	3665	NAG 5 10308	THE UNIV OF CENTRAL FLORIDA	3673
THE WATER BALANCE OF EASTERN AFRICAN GREAT LAKES STUDENT: XANGANG YIN			ANTENNA-COUPLED INFRARED SENSORS- PROPOSAL #215		
08/19/1999 – 08/31/2001	FY01: \$0	Total: \$44,000	02/02/2001 – 12/31/2001	FY01: \$179,596	Total: \$179,596
<i>Prin. Invest.:</i> S E NICHOLSON			<i>Prin. Invest.:</i> G D BOREMAN		
<i>Tech. Officer:</i> GSFC/M WEI			<i>Tech. Officer:</i> GSFC/C STAHL		
<i>CASE Category:</i> 39 – ENVIRONMENTAL SCI, OTHER			<i>CASE Category:</i> 13 – PHYSICS		
NGT 5 30191	FLORIDA STATE UNIV	3666	NAG 5 10730	THE UNIV OF CENTRAL FLORIDA	3674
INTER- AND INTRA-ANNUAL VARIABILITY OF THE NORTH AMERICAN MONSOON: A NUMERICAL MODELING STUDY/STU			FOURIER TRANSFORM IMAGING SPECTROMETER WITH HIGH-THROUGHPUT AND NO MOVING PARTS		
08/19/1999 – 08/31/2000	FY01: -\$7,112	Total: \$14,888	04/10/2001 – 04/14/2002	FY01: \$120,000	Total: \$120,000
<i>Prin. Invest.:</i> T KRISHNAMURTI			<i>Prin. Invest.:</i> R G SELLAR		
<i>Tech. Officer:</i> GSFC/M WEI			<i>Tech. Officer:</i> GSFC/B BETTS		
<i>CASE Category:</i> 39 – ENVIRONMENTAL SCI, OTHER			<i>CASE Category:</i> 11 – ASTRONOMY		
NGT 5 30370	FLORIDA STATE UNIV	3667	NAG10 215	THE UNIV OF CENTRAL FLORIDA	3675
DEVELOPMENT OF SCATTEROMETER-DERIVED RESEARCH-QUAL ITY SURFACE PRESSURES STUDENT: KYLE HILBURN			DEVELOPMENT OF ELECTRONKINETIC TECHNIQUE		
08/13/2001 – 08/31/2002	FY01: \$22,000	Total: \$22,000	04/17/1997 – 08/31/2000	FY01: \$0	Total: \$225,000
<i>Prin. Invest.:</i> J O'BRIEN			<i>Prin. Invest.:</i> C GEIGER		
<i>Tech. Officer:</i> GSFC/M WEI			<i>Tech. Officer:</i> KSC/J QUINN		
<i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER			<i>CASE Category:</i> 32 – GEOLOGICAL SCIENCE		
NAG10 282	MIAMI-DADE COMMUNITY COLLEGE	3668	NAG10 258	THE UNIV OF CENTRAL FLORIDA	3676
HOMESTEAD BUSINESS INCUBATOR HOMESTEAD BUSINESS INCUBATOR			NASA/UCF SPACE SCHOLARS PROGRAM		
05/18/2000 – 12/31/2001	FY01: \$0	Total: \$915,000	05/01/1999 – 06/30/2001	FY01: \$0	Total: \$75,937
<i>Prin. Invest.:</i> E J PADRON			<i>Prin. Invest.:</i> J SMITH		
<i>Tech. Officer:</i> KSC/D CULBERTSON			<i>Tech. Officer:</i> KSC/R MCKINNEY		
<i>CASE Category:</i> 79 – SOCIAL SCIENCE, OTHER			<i>CASE Category:</i> 49 – ENGINEERING, OTHER		

NAG10 260 THE UNIV OF CENTRAL FLORIDA 3677
 NASA-ASEE SUMMER FACULTY FELLOWSHIP PROGRAM
 04/16/1999 - 12/31/2000 FY01: \$0 Total: \$321,500
Prin. Invest.: E R HOSLER
Tech. Officer: KSC/G BUCKINGHAM
CASE Category: 49 - ENGINEERING, OTHER

NAG10 273 THE UNIV OF CENTRAL FLORIDA 3678
 KNOWLEDGE EXTRACTION FROM TEXT FOR NASA APPLICATIONS
 10/08/1999 - 12/30/2000 FY01: -\$11,530 Total: \$49,091
Prin. Invest.: F J GOMEZ
Tech. Officer: KSC/C G STEVENSON
CASE Category: 22 - COMPUTER SCIENCE

NAG10 276 THE UNIV OF CENTRAL FLORIDA 3679
 DEVELOPMENT OF ADVANCE LIFE SUPPORT AUTOMATED REMO TE
 MANIPULATOR END-EFFECTOR (ALSARM) (PHASE II)
 02/02/2000 - 11/15/2001 FY01: \$21,666 Total: \$41,259
Prin. Invest.: D W JOHNSON
Tech. Officer: KSC/C D QUINCY
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG10 278 THE UNIV OF CENTRAL FLORIDA 3680
 FUNGAL DIVERSITY IN COMPOST STUDIED USING BOTH TRA DITIONAL
 PLATTING AND MOLECULAR APPROACHES
 02/14/2000 - 10/09/2001 FY01: \$45,000 Total: \$110,000
Prin. Invest.: J F WEISHAMPEL
Tech. Officer: KSC/C QUINCY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG10 280 THE UNIV OF CENTRAL FLORIDA 3681
 2000 NASA/ASEE SUMMER FACULTY FELLOWSHIP RESEARCH PROGRAM
 04/10/2000 - 03/31/2002 FY01: \$0 Total: \$357,000
Prin. Invest.: D HOSIER
Tech. Officer: KSC/J P GORDON
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG10 290 THE UNIV OF CENTRAL FLORIDA 3682
 ASSESSMENT OF TECHNOLOGIES FOR VISUAL GAS LEAK DET ECTION
 07/30/2000 - 10/31/2001 FY01: \$50,000 Total: \$65,043
Prin. Invest.: R SELLAR
Tech. Officer: KSC/C DAVIS
CASE Category: 13 - PHYSICS

NAG10 296 THE UNIV OF CENTRAL FLORIDA 3683
 INSTALIZING KENNEDY SPACE CENTER'S STRATEGI C LEARNING
 PROCESS
 03/30/2001 - 02/01/2002 FY01: \$262,000 Total: \$262,000
Prin. Invest.: T KOTNOUR
Tech. Officer: KSC/J LYONS
CASE Category: 49 - ENGINEERING, OTHER

NAG10 299 THE UNIV OF CENTRAL FLORIDA 3684
 NASA/ASEE SUMMER FACULTY FELLOWSHIP RESEARCH PROGRM
 05/16/2001 - 12/31/2001 FY01: \$346,141 Total: \$346,141
Prin. Invest.: R HOSLER
Tech. Officer: KSC/C BLACK
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG10 301 THE UNIV OF CENTRAL FLORIDA 3685
 ULTRASOUND ENHANCEMENT OF A PERMEABLE REACTIVE BAR RIER
 UNDERGOING ACCELERATE AGING
 06/15/2001 - 04/30/2002 FY01: \$50,000 Total: \$50,000
Prin. Invest.: D R REINHART
Tech. Officer: KSC/J W QUINN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG10 306 THE UNIV OF CENTRAL FLORIDA 3686
 INTELLIGENT TEXT RETRIEVAL AND KNOWLEDGE ACQUISITI ON FROM
 TEXTS FOR NASA APPLICATIONS: PREPROCESSING
 09/07/2001 - 03/31/2002 FY01: \$50,000 Total: \$50,000
Prin. Invest.: F GOMEZ
Tech. Officer: KSC/C G STEVENSON
CASE Category: 49 - ENGINEERING, OTHER

NCA10 35 THE UNIV OF CENTRAL FLORIDA 3687
 JOINT SPONSORED RESEARCH AGREEMENT THE VISION SPACEPORT
 PROJECT
 09/15/1998 - 12/31/2000 FY01: \$0 Total: \$297,230
Prin. Invest.: R HOFER
Tech. Officer: KSC/C M CLESKEY, KSC/C D SHELTON
CASE Category: 29 - MATH/COMPUTER SCI, OTHER

NCA10 41 THE UNIV OF CENTRAL FLORIDA 3688
 FUNDED SPACE ACT AGREEMENT FOR SPACEPORT SYSTEM PROC-
 ESSING MODEL
 02/25/2000 - 09/29/2000 FY01: \$0 Total: \$320,000
Prin. Invest.: M MOLLAGHAGEMI
Tech. Officer: KSC/G CATES, KSC/D SHELTON
CASE Category: 49 - ENGINEERING, OTHER

NCC 3 712 THE UNIV OF CENTRAL FLORIDA 3689
 ULTRA-LIGHT-WEIGHT, RADATION-RESISTANT, THIN-FILM SOLAR CELLS
 FOR SPACE ELECTRICPOWER
 06/10/1999 - 04/30/2002 FY01: \$40,000 Total: \$160,000
Prin. Invest.: N G DHERE
Tech. Officer: GRC/A F HEPP
CASE Category: 13 - PHYSICS

NCC10 35 THE UNIV OF CENTRAL FLORIDA 3690
 NASA NOX3; PILOT SCALE EVALUATION OF NEW TECHNOLOG Y FOR NOX
 CONTROL
 02/22/2000 - 12/31/2001 FY01: \$55,000 Total: \$100,000
Prin. Invest.: D C COOPER
Tech. Officer: KSC/M COLLINS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 40069 THE UNIV OF CENTRAL FLORIDA 3691
 FLORIDA/NATIONAL SPACE GRANT COLLEGE & FELLOWSHIP PROGRAM
 04/28/2000 - 04/29/2001 FY01: \$0 Total: \$475,000
Prin. Invest.: S DURRANCE
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40071 THE UNIV OF CENTRAL FLORIDA 3692
 FLORIDA/NATIONAL SPACE GRANT COLLEGE & FELLOWSHIP PROGRAM
 01/05/2001 - 08/31/2003 FY01: \$85,000 Total: \$85,000
Prin. Invest.: S DURRANCE
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40107 THE UNIV OF CENTRAL FLORIDA 3693
 FLORIDA SPACE GRANT CONSORTIUM
 03/02/2001 – 02/28/2002 FY01: \$486,000 Total: \$486,000
Prin. Invest.: S DURRANCE
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT10 52615 THE UNIV OF CENTRAL FLORIDA 3694
 EFFECTIVE ORGANIZATIONAL PERFORMANCE IMPROVEMENT TOOLS
 USED IN AVIATION & AEROSPACE
 07/14/1998 – 07/30/2000 FY01: -\$163 Total: \$43,837
Prin. Invest.: T KOTNOUR
Tech. Officer: KSC/L GOSPER
CASE Category: 49 – ENGINEERING, OTHER

NGT10 52625 THE UNIV OF CENTRAL FLORIDA 3695
 GRADUATE STUDENT RESEARCH PROGRAM GRADUATE STUDENT
 RESEARCH PROGRAM
 08/10/2000 – 06/30/2001 FY01: \$0 Total: \$22,000
Prin. Invest.: D G KOTNOUR
Tech. Officer: KSC/L GOSPER
CASE Category: 49 – ENGINEERING, OTHER

NGT10 52627 THE UNIV OF CENTRAL FLORIDA 3696
 INSTABILITIES IN MAGNETIC FLUIDS IN TERRESTRIAL AND MICROGRAVITY
 ENVIRONMENTS
 07/24/2000 – 06/13/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: D LUO
Tech. Officer: KSC/R YOUNGQUIST
CASE Category: 13 – PHYSICS

NGT10 52630 THE UNIV OF CENTRAL FLORIDA 3697
 GSRP: STRATEGIC IMPLEMENTATION THROUGH PROCESS ALIGNMENT
 08/02/2001 – 06/13/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.:
Tech. Officer: KSC/L GOSPER
CASE Category: 49 – ENGINEERING, OTHER

NAG 1 1809 UNIV OF FLORIDA 3698
 DEVELOPMENT OF TEMPERATURE SENSITIVE PAINTS FOR WIND TUNNEL
 03/04/1996 – 11/30/1999 FY01: -\$769 Total: \$299,444
Prin. Invest.: K S SCHANZE
Tech. Officer: LARC/B T UPCHURCH, LARC/M MITCHELL
CASE Category: 12 – CHEMISTRY

NAG 1 2060 UNIV OF FLORIDA 3699
 WAVELET AND MULTIREOLUTION ANALYSIS FOR FINITE ELEMENT
 NETWORKING PARADIGMS
 06/04/1998 – 04/30/2001 FY01: \$0 Total: \$19,726
Prin. Invest.: A L KURDILA, NONE
Tech. Officer: LARC/J M HOUSNER
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 2092 UNIV OF FLORIDA 3700
 DEV OF AN INNOVATIVE ALGORITHM FOR AERODYNAMICS- STRUCTURE
 INTERACTION USING LATTICE BOLTZMANN METH
 07/31/1998 – 07/14/2001 FY01: \$65,000 Total: \$297,500
Prin. Invest.: R MEI, W SHYY, L LUO
Tech. Officer: LARC/D H RUDY, LARC/R T BIEDRON
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 2133 UNIV OF FLORIDA 3701
 MEMS-BASED ACOUSTIC ARRAY TECHNOLOGY MY 1/3
 02/11/1999 – 12/31/2001 FY01: \$151,125 Total: \$406,720
Prin. Invest.: M SHEPLAK
Tech. Officer: LARC/R R ANTELIFF
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 2161 UNIV OF FLORIDA 3702
 CHEMICALLY TAILORED PARTICLES FOR WIND-TUNNEL SEED ING
 03/15/1999 – 05/04/2000 FY01: \$0 Total: \$50,003
Prin. Invest.: K S SCHANZE
Tech. Officer: LARC/B T UPCHURCH, LARC/C J OBARA
CASE Category: 12 – CHEMISTRY

NAG 1 2177 UNIV OF FLORIDA 3703
 VARIABLE COMPLEXITY OPTIMIZATION OF COMPOSITE STRUCTURES
 04/02/1999 – 01/27/2002 FY01: \$133,000 Total: \$367,163
Prin. Invest.: R T HAFTKA
Tech. Officer: LARC/J H STARNES, JR.
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 2188 UNIV OF FLORIDA 3704
 INFORMATION THEORETIC EXTRACTION OF ELECTROENCEPHALOGRAPHY
 (EEG) FEATURES FOR MONITORING SUBJECT ATTENTION
 04/28/1999 – 09/30/2000 FY01: \$0 Total: \$59,923
Prin. Invest.: J C PRINCIPE
Tech. Officer: LARC/M A MOTTER, LARC/A T POPE
CASE Category: 45 – ELECTRICAL ENGR

NAG 1 2198 UNIV OF FLORIDA 3705
 REDUCED ORDER MODELS VIA MULTIREOLUTION ANALYSIS FOR
 CONTROL OF FLOW
 05/19/1999 – 02/18/2002 FY01: \$55,000 Total: \$157,810
Prin. Invest.: A J KURDILA
Tech. Officer: LARC/W A SILVA
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 2232 UNIV OF FLORIDA 3706
 DAMAGE TOLERANCE OF SANDWICH PLATES WITH DEBONDED FACE
 SHEETS
 09/02/1999 – 10/31/2000 FY01: \$0 Total: \$48,673
Prin. Invest.: B V SANKAR
Tech. Officer: LARC/D R AMBUR
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 2249 UNIV OF FLORIDA 3707
 THE DEVELOPMENT OF DESIGN TOOLS FOR FLOW-CONTROL ACTUATORS
 12/21/1999 – 01/02/2003 FY01: \$59,161 Total: \$122,315
Prin. Invest.: L N CATTAFESTA, A J KURDILA
Tech. Officer: LARC/S A GORTON, LARC/R D JOSLIN
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 2261 UNIV OF FLORIDA 3708
 ADVANCED TECHNOLOGY DEVELOPMENT FOR ACTIVE ACOUSTIC LINERS
 01/21/2000 – 10/31/2000 FY01: \$0 Total: \$102,393
Prin. Invest.: M SHEPLAK
Tech. Officer: LARC/M G JONES, LARC/T L PARROTT
CASE Category: 49 – ENGINEERING, OTHER

NAG 1 01013 **UNIV OF FLORIDA** **3709**
 ELECTROMECHANICAL ACOUSTIC LINER TECHNOLOGY
 02/07/2001 – 12/31/2003 FY01: \$80,000 Total: \$80,000
Prin. Invest.: L N SHEPLAK, L N CATTAFESTA III
Tech. Officer: LARC/M G JONES, LARC/T L PARROT
CASE Category: 49 – ENGINEERING, OTHER

NAG 1 01024 **UNIV OF FLORIDA** **3710**
 COMPUTATIONAL MODELING & ANALYSIS SYNTHETIC JETS
 03/09/2001 – 03/31/2004 FY01: \$45,000 Total: \$45,000
Prin. Invest.: R MITTAL, L N CATTAFESTA III
Tech. Officer: LARC/S A GORTON
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 01088 **UNIV OF FLORIDA** **3711**
 ANALYSIS METHODS FOR FUNCTIONALLY GRADED MATERIALS AND STRUCTURES
 06/14/2001 – 12/31/2001 FY01: \$30,000 Total: \$30,000
Prin. Invest.: B V SANKAR
Tech. Officer: LARC/D R AMBUR
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 1 01098 **UNIV OF FLORIDA** **3712**
 INTEGRATED SHEAR STRESS/TEMPERATURE MICROMACHINED SENSORS
 06/14/2001 – 10/31/2001 FY01: \$52,091 Total: \$52,091
Prin. Invest.: M SHEPLAK, T NISHIDA, L N CATTAFESTA, III
Tech. Officer: LARC/S K KAHNG
CASE Category: 45 – ELECTRICAL ENGR

NAG 2 1179 **UNIV OF FLORIDA** **3713**
 DESIGN SPACE EXPLORATION FOR MDO ON A TERAFLAP COMPUTER
 02/26/1998 – 01/31/2001 FY01: \$0 Total: \$104,340
Prin. Invest.: R T HAITKA
Tech. Officer: ARC/G H KLOPTER
CASE Category: 41 – AERONAUTICAL ENGR

NAG 3 2341 **UNIV OF FLORIDA** **3714**
 SHEET FLOWS, AVALANCHES, AND DUNE EVOLUTION ON EARTH AND MARS
 03/01/2000 – 11/21/2004 FY01: \$17,100 Total: \$22,860
Prin. Invest.: D M HANES
Tech. Officer: GRC/F P CHIARAMONTE
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 2382 **UNIV OF FLORIDA** **3715**
 MICROGRAVITY DRIVEN INSTABILITIES IN GAS-FLUIDIZED BEDS
 04/05/2000 – 11/30/2003 FY01: \$57,728 Total: \$77,987
Prin. Invest.: A L LADD
Tech. Officer: GRC/B J MOTIL
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 2415 **UNIV OF FLORIDA** **3716**
 SEPARATION OF SPECIES BY OSCILLATORY FLOW SEPARATION OF SPECIES BY OSCILLATORY FLOW
 06/07/2000 – 11/30/2003 FY01: \$90,250 Total: \$130,250
Prin. Invest.: D NARAYANAN
Tech. Officer: GRC/F P CHIARAMONTE III
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 2461 **UNIV OF FLORIDA** **3717**
 OPTIMIZATION OF THERMAL MANAGEMENT SYSTEM WEIGHT OPTIMIZATION OF THERMAL MANAGEMENT SYSTEM WEIGHT
 06/13/2000 – 09/30/2000 FY01: -\$38 Total: \$9,962
Prin. Invest.: D E LEAR
Tech. Officer: GRC/E L GOLLIHER
CASE Category: 46 – MECHANICAL ENGR

NAG 3 2553 **UNIV OF FLORIDA** **3718**
 SUPERSONIC INLETS FOR PULSE DETONATION ENGINES
 03/15/2001 – 01/01/2004 FY01: \$50,444 Total: \$50,444
Prin. Invest.: C SEGAL
Tech. Officer: GRC/R FERNANDEZ
CASE Category: 41 – AERONAUTICAL ENGR

NAG 3 2630 **UNIV OF FLORIDA** **3719**
 WEIGHT OPTIMIZATION OF ACTIVE THERMAL MANAGEMENT USING A NOVEL HEAT PUMP
 06/13/2001 – 05/31/2003 FY01: \$58,333 Total: \$58,333
Prin. Invest.: D E LEAR
Tech. Officer: GRC/E L GOLLIHER
CASE Category: 46 – MECHANICAL ENGR

NAG 5 3772 **UNIV OF FLORIDA** **3720**
 HUMAN DIMENSIONS OF DEFORESTATION & REGROWTH IN THE INTEGRATING DATA FROM SATELLITES, DEMOGRAPHIC CENSUS
 03/11/1997 – 02/28/2001 FY01: \$0 Total: \$536,368
Prin. Invest.: D WOOD
Tech. Officer: GSFC/N MAYNARD
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4287 **UNIV OF FLORIDA** **3721**
 CARBON SPECIES AS POSSIBLE CARRIERS OF THE URS
 04/29/1997 – 12/31/2000 FY01: \$0 Total: \$197,000
Prin. Invest.: D T VALA
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 – ASTRONOMY

NAG 5 4531 **UNIV OF FLORIDA** **3722**
 DYNAMICS OF SOLAR SYSTEM DUST
 05/08/1997 – 02/28/2002 FY01: \$85,300 Total: \$419,444
Prin. Invest.: D F DERMOTT
Tech. Officer: HQ/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4547 **UNIV OF FLORIDA** **3723**
 PLANETARY AEROSOL MONITOR/INTEGRATED DUST ANALYZER
 05/06/1997 – 05/31/2000 FY01: \$0 Total: \$282,390
Prin. Invest.: D GUSTAFSON
Tech. Officer: GSFC/B CAMPBELL
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 6378 **UNIV OF FLORIDA** **3724**
 OPTICAL PROPERTIES OF IRREGULAR DUST PARTICLES: EXPERIMENT AND THEORY
 10/08/1997 – 04/30/2002 FY01: \$50,000 Total: \$261,944
Prin. Invest.: D GUSTAFSON
Tech. Officer: GSFC/S HOWARD
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 6751 **UNIV OF FLORIDA** **3725**
TOWARDS A COMPLETE INVENTORY OF STAR AND PLANET FORMATION
ACTIVITY IN NEARBY MOLECULAR CLOUDS
01/12/1998 - 01/14/2001 FY01: \$0 Total: \$139,800
Prin. Invest.: E LADA
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 7559 **UNIV OF FLORIDA** **3726**
NITROGEN AND PHOSPHORUS DYNAMICS IN FORESTS AND INVERTED
FOREST SITES IN THE AMAZON BASIN: A REV
06/26/1998 - 06/30/2000 FY01: \$0 Total: \$21,908
Prin. Invest.: H L GHOLZ
Tech. Officer: GSFC/D W DEERING
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7664 **UNIV OF FLORIDA** **3727**
"THE USE OF SATELLITE-GENERATED METEOROLOGICAL DATA TO
PREDICT MOSQUITO-BORNE ENCEPHALITIS TRANSMIS
09/09/1998 - 09/30/2000 FY01: \$0 Total: \$36,000
Prin. Invest.: J F DAY
Tech. Officer: GSFC/B W MESSON
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 8522 **UNIV OF FLORIDA** **3728**
CHEMICAL ABUNDANCES AND EVOLUTION IN QUASARS AND ACTIVE
GALACTIC NUCLEI ILSA
05/12/1999 - 05/14/2002 FY01: \$0 Total: \$205,000
Prin. Invest.: F W HAMANN, NONE
Tech. Officer: GSFC/R K OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 8944 **UNIV OF FLORIDA** **3729**
COMPLEX SILICATE GRAINS WITH SUBLIMATING MANTLES: A SYSTEMATIC
LABORATORY STUDY OF OPTICAL PROPERTIES
01/13/2000 - 01/14/2002 FY01: \$68,300 Total: \$133,769
Prin. Invest.: L KOLOKOLOVA
Tech. Officer: GSFC/D BOGAN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9280 **UNIV OF FLORIDA** **3730**
A GLOBAL, MULTI-WAVEBAND MODEL OF THE ZODIACAL CLOUD (ADP 99)
03/21/2000 - 03/31/2002 FY01: \$43,862 Total: \$86,446
Prin. Invest.: K GROGAN
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9331 **UNIV OF FLORIDA** **3731**
LAND-USE & LAND-COVER CHANGE: DECADAL-SCALE DYNAMICS OF
LAND OWNERSHIP LAND MANAGEMENT & CARBON
03/28/2000 - 04/30/2002 FY01: \$105,663 Total: \$196,662
Prin. Invest.: M W BINFORD
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10567 **UNIV OF FLORIDA** **3732**
CHARACTERIZATION AND SIMULATION OF REMOTELY SENSED SOIL MOIS-
TURE FOR RAINFALL-RUNOFF MODELING
03/12/2001 - 03/14/2002 FY01: \$78,853 Total: \$78,853
Prin. Invest.: J JACOBS
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10670 **UNIV OF FLORIDA** **3733**
MOLTEN MORPHOLOGIES & NON-EQUILIBRIUM MINERAL COMPOSITIONS
GENERATED BY A POLYMER-INDUCED LIQUID PRE
03/29/2001 - 04/30/2002 FY01: \$100,000 Total: \$100,000
Prin. Invest.: L B GOWER
Tech. Officer: GSFC/M MEYER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1243 **UNIV OF FLORIDA** **3734**
FOR RESEARCH ENTITLED AN ELECTROMECHANICAL METHOD TO VISU-
ALIZE FLOW AND MEASURE DIFFUSIVITY
05/28/1996 - 05/27/2000 FY01: \$0 Total: \$600,000
Prin. Invest.: T J ANDERSON, R NARAYANAN
Tech. Officer: MSFC/P R DOTY, MSFC/R POWER
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 8 1244 **UNIV OF FLORIDA** **3735**
THE FEATURES OF SELF-ASSEMBLING ORGANIC BILAYERS
05/01/1996 - 04/30/2000 FY01: -\$342 Total: \$279,658
Prin. Invest.: D R TALHAM, J H ADAIR
Tech. Officer: MSFC/P DOTY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1251 **UNIV OF FLORIDA** **3736**
R/S " CONFINEMENT AND PROPULSION CHARACTERISTICS OF THE
GASDYNAMIC MIRROR FUSION ROCKET"
12/23/1996 - 05/15/2002 FY01: \$90,000 Total: \$419,878
Prin. Invest.: S ANGHZIE
Tech. Officer: MSFC/W J EMRICH, JR.
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 8 1673 **UNIV OF FLORIDA** **3737**
MORPHOLOGICAL STABILITY OF FACETED INTERFACES
05/16/2000 - 11/30/2003 FY01: \$85,500 Total: \$130,500
Prin. Invest.: R ABBASCHIAM
Tech. Officer: MSFC/P DOTY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1675 **UNIV OF FLORIDA** **3738**
THE FEATURES OF SELF-ASSEMBLING ORGANIC BILAYERS IMPORTANT
TO THE FORMATION OF INORGANIC MATERIALS.
05/11/2000 - 11/30/2003 FY01: \$85,500 Total: \$125,500
Prin. Invest.: D TALHAM
Tech. Officer: MSFC/P DOTY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1679 **UNIV OF FLORIDA** **3739**
AN ELECTROCHEMICAL METHOD TO VISUALIZE FLOW IN LIQUID METALS
04/25/2000 - 11/30/2003 FY01: \$104,500 Total: \$149,500
Prin. Invest.: T J ANDERSON
Tech. Officer: MSFC/P DOTY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1729 **UNIV OF FLORIDA** **3740**
 DEVELOPMENT AND APPLICATION OF OPTIMIZATION TECHNIQUES FOR
 ROCKET ENGINE COMPONENT DESIGN
 06/16/2000 – 05/31/2001 FY01: \$0 Total: \$50,000
Prin. Invest.: W SHYY
Tech. Officer: MSFC/L W GRIFFIN
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 8 1742 **UNIV OF FLORIDA** **3741**
 A GLOBAL OPTIMIZATION METHODOLOGY FOR ROCKET PRO – PULSION
 09/06/2000 – 09/15/2001 FY01: \$0 Total: \$50,000
Prin. Invest.: W SHYY
Tech. Officer: MSFC/K TUCKER
CASE Category: 41 – AERONAUTICAL ENGR

NAG 8 1791 **UNIV OF FLORIDA** **3742**
 RESEARCH ENTITLED, "DEV. OF OPTIMIZATION STRATEGIE FOR FULL-
 FLOW STAGED COMBUSTION INJECTORS
 03/15/2001 – 03/14/2005 FY01: \$80,000 Total: \$80,000
Prin. Invest.: W SHYY
Tech. Officer: MSFC/K TUCKER, MSFC/D CHAFFEE
CASE Category: 49 – ENGINEERING, OTHER

NAG 8 1821 **UNIV OF FLORIDA** **3743**
 APPLICATION OF PRESSURE SENSITIVE PAINT TO THEMFC 14 INCH
 TRISONIC WIND TUNNEL
 06/01/2001 – 05/30/2002 FY01: \$29,361 Total: \$29,361
Prin. Invest.: B CARROLL
Tech. Officer: MSFC/A L FROST
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG10 145 **UNIV OF FLORIDA** **3744**
 GENETICALLY ENGINEERED PLANT BIOMONITOR IN MICRO- GRAVITY
 09/21/1994 – 08/31/2001 FY01: \$0 Total: \$711,208
Prin. Invest.: R J FERL
Tech. Officer: KSC/W M KNOTT
CASE Category: 55 – AGRICULTURE

NAG10 274 **UNIV OF FLORIDA** **3745**
 MINIATURE LOW-POWER INTEGRATED CO/CO2/02 SENSOR FO R ISRU
 CONTROL AND VERIFICATION
 12/03/1999 – 11/29/2000 FY01: \$0 Total: \$10,000
Prin. Invest.: E D WACHSMAN
Tech. Officer: KSC/M BASSIGNANI
CASE Category: 47 – METAL & MATERIALS ENGR

NAG10 285 **UNIV OF FLORIDA** **3746**
 CRYOGENICS R&T SUPPORT FOR KENNEDY SPACE CENTER CRYOGENICS
 R&T SUPPORT FOR KENNEDY SPACE CENTER
 06/05/2000 – 05/18/2002 FY01: \$95,000 Total: \$225,000
Prin. Invest.: C SEGAL
Tech. Officer: KSC/M LONERGAN
CASE Category: 43 – CHEMICAL ENGR

NAG10 291 **UNIV OF FLORIDA** **3747**
 TIANGENIC PLANT BIOMONITORS TIANGENIC PLANT BIOMONITORS
 09/29/2000 – 09/30/2003 FY01: \$125,399 Total: \$195,399
Prin. Invest.: R J FERL
Tech. Officer: KSC/D R COX
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG10 293 **UNIV OF FLORIDA** **3748**
 DEVELOPMENT OF AN OBJECT-ORIENTED ALS-CROP DATABAS E SYSTEM
 FOR DOCUMENTING RESEARCH AND MARS DEPLOY
 12/08/2000 – 10/29/2003 FY01: \$45,000 Total: \$45,000
Prin. Invest.: R A BUCKLIN
Tech. Officer: KSC/J C SAGER
CASE Category: 55 – AGRICULTURE

NAG10 303 **UNIV OF FLORIDA** **3749**
 ELECTROLYTIC REDUCTION OF CO-2 TO 0-2 AND CO FOR I SRU WITH
 HIGH CONDUCTIVITY SOLID OXIDE ELECTROLYT
 07/27/2001 – 04/30/2002 FY01: \$15,000 Total: \$15,000
Prin. Invest.: E D WACHSMAN
Prin. Invest.: NONE
Tech. Officer: KSC/D E LUECK
CASE Category: 47 – METAL & MATERIALS ENGR

NAS 8 97110 **UNIV OF FLORIDA** **3750**
 OPERATION AND MANAGEMENT FOR THE NASA TECH TRANS- FER
 CENTER
 02/02/1997 – 12/30/2000 FY01: -\$369,173 Total: \$4,780,950
Prin. Invest.: J R THORNTON
Tech. Officer: MSFC/J POE
CASE Category: 42 – ASTRONAUTICAL ENGR

NAS10 96004 **UNIV OF FLORIDA** **3751**
 ON-SITE MEDICAL SUPPORT DURING STS LAUNCH & LAND- ING OPERA-
 TIONS
 09/13/1996 – 09/30/2001 FY01: \$121,029 Total: \$512,555
Prin. Invest.: A H NEIMS
Tech. Officer: KSC/D A TIPTON
CASE Category: 56 – MEDICL

NCC 1 397 **UNIV OF FLORIDA** **3752**
 FLEXIBLE WING BASED MICRO AERIAL VEHICLES
 05/24/2000 – 09/30/2001 FY01: \$54,920 Total: \$74,920
Prin. Invest.: P G IFJU, D A JENKINS
Tech. Officer: LARC/M R WASZAK
CASE Category: 41 – AERONAUTICAL ENGR

NCC 1 01023 **UNIV OF FLORIDA** **3753**
 REAL-TIME FEEDBACK FLOW CONTROL
 02/14/2001 – 01/31/2004 FY01: \$70,000 Total: \$70,000
Prin. Invest.: L N CATTAFESTA, III, M SHEPLAK
Tech. Officer: LARC/A E WASHBURN, LARC/W L SELLERS
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NCC 1 01060 **UNIV OF FLORIDA** **3754**
 CHARACTERIZATION OF MICROMACHINED THERMAL SHEAR STRESS
 SENSOR FOR QUANTITATIVE TURBULENCE MEASUREM
 08/30/2001 – 08/31/2003 FY01: \$5,000 Total: \$5,000
Prin. Invest.: M SHEPLAK, W SHYY, L N CATTAFESTA, III
Tech. Officer: LARC/A E WASHBURN, LARC/A E WASHBURN
CASE Category: 41 – AERONAUTICAL ENGR

NCC 2 1197 **UNIV OF FLORIDA** **3755**
 DO INTEGRINS MEDIATE THE SKELETAL RESPONSE TO ALTE RED
 LOADING? (SUBPROJECT C)
 08/28/2000 – 09/30/2002 FY01: \$24,158 Total: \$48,417
Prin. Invest.: T J WRONSKI
Tech. Officer: ARC/R K GLOBUS, ARC/E M HOLTON
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

<p>NCC 2 5246 UNIV OF FLORIDA 3756 OPTIMIZATION OF INFRARED DETECTOR ARRAYS FOR AIRBORNE ASTRONOMY 12/03/1997 - 02/28/2001 FY01: \$0 Total: \$142,822 <i>Prin. Invest.:</i> C M TELESCO, R K PIKA <i>Tech. Officer:</i> ARC/E F ERICKSON, ARC/M R HAAS <i>CASE Category:</i> 11 - ASTRONOMY</p>	<p>NGT 1 01022 UNIV OF FLORIDA 3764 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) 06/01/2001 - 06/30/2003 FY01: \$22,000 Total: \$22,000 <i>Prin. Invest.:</i> M SHEPLAK <i>Tech. Officer:</i> LARC/K K TEDJOJUWONS <i>CASE Category:</i> 41 - AERONAUTICAL ENGR</p>
<p>NCC 2 5403 UNIV OF FLORIDA 3757 COMPUTATIONAL INVESTIGATION OF CARBON NANOTUBE MATERIALS 10/11/2000 - 10/14/2001 FY01: \$44,873 Total: \$44,873 <i>Prin. Invest.:</i> S SINNOTT <i>Tech. Officer:</i> ARC/H PARTRIDGE, ARC/M MEYYAPPAN <i>CASE Category:</i> 22 - COMPUTER SCIENCE</p>	<p>NGT 1 52233 UNIV OF FLORIDA 3765 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) 04/24/2000 - 06/30/2001 FY01: \$12,000 Total: \$22,000 <i>Prin. Invest.:</i> M SHEPHERD <i>Tech. Officer:</i> LARC/K K TEDJOJIONO <i>CASE Category:</i> 41 - AERONAUTICAL ENGR</p>
<p>NCC 2 5424 UNIV OF FLORIDA 3758 UF PARTICIPATION IN THE AIRBORNE INFRARED ECHELLE SPECTROMETER PROJECT 02/27/2001 - 02/28/2002 FY01: \$36,167 Total: \$36,167 <i>Prin. Invest.:</i> R K PINA <i>Tech. Officer:</i> ARC/E F ERICKSON <i>CASE Category:</i> 11 - ASTRONOMY</p>	<p>NGT 5 128 UNIV OF FLORIDA 3766 ADAPTIVE SATELLITE ATTITUDE CONTROL/KEVIN J. WALCH KO 08/22/2001 - 07/31/2004 FY01: \$22,000 Total: \$22,000 <i>Prin. Invest.:</i> P C MASON <i>Tech. Officer:</i> GSFC/M S BURRELL <i>CASE Category:</i> 46 - MECHANICAL ENGR</p>
<p>NCC 3 476 UNIV OF FLORIDA 3759 IN-SITU MONITORING OF CRYSTAL GROWTH USING MEPHISTO 05/22/1996 - 08/07/2000 FY01: \$0 Total: \$501,495 <i>Prin. Invest.:</i> R ABBASCHIAN <i>Tech. Officer:</i> GRC/C DEGON <i>CASE Category:</i> 13 - PHYSICS</p>	<p>NGT 5 40025 UNIV OF FLORIDA 3767 THE NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PR 12/19/1996 - 09/30/2000 FY01: \$0 Total: \$1,404,996 <i>Prin. Invest.:</i> W SHYY <i>Tech. Officer:</i> GSFC/D DETROYE <i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER</p>
<p>NCC 8 149 UNIV OF FLORIDA 3760 RESEARCH IN COMMUNICATING SCIENTIFIC KNOWLEDGE 12/22/1997 - 12/21/2002 FY01: \$80,000 Total: \$1,039,917 <i>Prin. Invest.:</i> D TREISE <i>Tech. Officer:</i> MSFC/R KOCZOR <i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER</p>	<p>NGT 5 50021 UNIV OF FLORIDA 3768 THE CHEM & PHY PROPERTIES OF COMETS HALE-BOPP (1996 B2) 07/17/1997 - 12/31/2000 FY01: \$0 Total: \$66,000 <i>Prin. Invest.:</i> H CAMPINS <i>Tech. Officer:</i> GSFC/A NURRIDIN <i>CASE Category:</i> 41 - AERONAUTICAL ENGR</p>
<p>NCC 8 157 UNIV OF FLORIDA 3761 SOUTHEAST REGIONAL EARTH SCIENCE APPLICATIONS CENTER 10/20/1998 - 10/20/2003 FY01: \$0 Total: \$120,000 <i>Prin. Invest.:</i> J W JONES, J W HANSEN <i>Tech. Officer:</i> MSFC/J ARNOLD <i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE</p>	<p>NGT 5 50031 UNIV OF FLORIDA 3769 DETECTING PLANETS IN CIRCUMSTELLAR DISKS 07/17/1997 - 01/31/2001 FY01: \$0 Total: \$66,000 <i>Prin. Invest.:</i> S DERMOTT <i>Tech. Officer:</i> GSFC/K BLANDING <i>CASE Category:</i> 41 - AERONAUTICAL ENGR</p>
<p>NCC 9 84 UNIV OF FLORIDA 3762 AUTOMATIC TEST ANALYSIS PROGRAMS 03/18/1999 - 03/31/2001 FY01: \$0 Total: \$120,000 <i>Prin. Invest.:</i> Y H LEE <i>Tech. Officer:</i> JSC/A T LEE <i>CASE Category:</i> 22 - COMPUTER SCIENCE</p>	<p>NGT 5 50074 UNIV OF FLORIDA 3770 RAPID THERMAL PROCESSING OF INDIUM ARSENIDE USING TRANSPORT REACTOR STUDENT - DANIEL 09/05/1997 - 08/31/2000 FY01: \$0 Total: \$64,960 <i>Prin. Invest.:</i> T ANDERSON <i>Tech. Officer:</i> HQ/A NURRIDIN <i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER</p>
<p>NCC 9 110 UNIV OF FLORIDA 3763 ENVIRONMENTAL SYSTEMS COMMERCIAL SPACE TECH CNTR 09/22/2000 - 11/30/2005 FY01: \$675,000 Total: \$926,741 <i>Prin. Invest.:</i> J J WARWICK <i>Tech. Officer:</i> JSC/K R DAUES <i>CASE Category:</i> 54 - ENVIRONMENTAL BIOLOGY</p>	<p>NGT 5 50177 UNIV OF FLORIDA 3771 THE ORIGIN OF THE INFRARED EXCESS IN PRE-MAIN-SEQUENCE STARS (STUDENT - E. POLOMSKI) 05/26/1998 - 12/31/2000 FY01: -\$13,021 Total: \$52,979 <i>Prin. Invest.:</i> C TELESCO <i>Tech. Officer:</i> HQ/K BLANDING <i>CASE Category:</i> 11 - ASTRONOMY</p>

NGT 5 50233 **UNIV OF FLORIDA** **3772**
 LOOKING FOR VARIATIONS IN THE INITIAL MASS FUNCTION: FIRST
 COMPREHENSIVE NEAR-INFRARED SPECTROSCOPY
 05/27/1999 - 06/30/2002 FY01: \$0 Total: \$44,000
Prin. Invest.: E A LADA
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 8 52890 **UNIV OF FLORIDA** **3773**
 CRITICAL INITIAL FLAW (CIF) SIZE EVALUATION IN SINGLE CRYSTAL NICKEL-BASE (PWA 1493)
 06/01/2000 - 06/30/2003 FY01: \$0 Total: \$22,000
Prin. Invest.: N ARAKERE
Tech. Officer: MSFC/S NASH-STEVENSON
CASE Category: 46 - MECHANICAL ENGR

NGT10 52626 **UNIV OF FLORIDA** **3774**
 HIGH PERFORMANCE MASS SPECTROMETRY WITH A MINIATURE ION
 TRAP FOR BIOLOGICAL AND ENVIRONMENTAL MONITORING
 07/20/2000 - 07/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: R A YOST
Tech. Officer: KSC/F ADAMS
CASE Category: 12 - CHEMISTRY

NGT13 52710 **UNIV OF FLORIDA** **3775**
 NASA GRADUATE PROGRAM-USING REMOTE SENSING TECHNIQUES TO
 ASSESS STRESS CONDITIONS
 07/21/1997 - 01/31/2001 FY01: -\$18 Total: \$65,828
Prin. Invest.: S SHIH
Tech. Officer: JSC/A JOYCE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 1 2002 **UNIV OF MIAMI** **3776**
 A COMPACT AIRBORNE SYSTEM FOR SO₂ & DMF MEASUREMENTS FOR USE ON FUTURE
 MISSIONS
 02/09/1998 - 07/14/2000 FY01: \$1 Total: \$238,701
Prin. Invest.: E S SALTZMAN
Tech. Officer: LARC/J L RAPER, LARC/R J BENDURA
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 6033 **UNIV OF MIAMI** **3777**
 AN INTEGRATED GPS SYSTEM FOR MONITORING ACTIVE VOLCANOES
 10/02/1997 - 09/30/2000 FY01: \$0 Total: \$300,000
Prin. Invest.: T H DIXON
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 6576 **UNIV OF MIAMI** **3778**
 SEAWIFS DATA COLLECTION, CALIBRATION AND PROCESSING FOR THE
 INDIAN OCEAN
 12/15/1997 - 10/31/2000 FY01: \$0 Total: \$102,821
Prin. Invest.: R EVANS
Tech. Officer: GSFC/J YODER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6577 **UNIV OF MIAMI** **3779**
 HIGH ACCURACY INFRARED INTERFEROMETRIC VALIDATION OF
 SATELLITE SURFACE TEMPERATURE RETRIEVALS
 12/12/1997 - 05/31/2001 FY01: \$0 Total: \$599,877
Prin. Invest.: P J MINNETT
Tech. Officer: GSFC/J C DODGE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6659 **UNIV OF MIAMI** **3780**
 A STUDY OF THE IMPACT OF OCEANIC BIOLOGICAL PROCESSES ON THE
 AIR-SEA EXCHANGE OF METHYL BROMIDE:
 11/20/1997 - 04/30/2002 FY01: \$0 Total: \$320,065
Prin. Invest.: E SALTZMAN
Tech. Officer: GSFC/J W CAMPBELL
CASE Category: 11 - ASTRONOMY

NAG 5 7110 **UNIV OF MIAMI** **3781**
 TOMS VALIDATION BASED ON PROFILES OF AEROSOL PROPERTIES IN
 THE LOWER TROPOSPHERE AS OBTAINED WITH
 03/18/1998 - 03/31/2002 FY01: \$0 Total: \$452,904
Prin. Invest.: D M PROSPERO
Tech. Officer: GSFC/J HERMAN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7674 **UNIV OF MIAMI** **3782**
 INTEGRATION OF LONG TERM OCEANIC AEROSOL RECORDS FROM UNIV
 OF MIAMI NETWORK STATIONS WITH
 09/09/1998 - 08/31/2001 FY01: \$40,000 Total: \$120,000
Prin. Invest.: J M PROSPERO
Tech. Officer: GSFC/M I MISHCHENKO
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 8161 **UNIV OF MIAMI** **3783**
 COORDINATION OF THE 4TH INTERNATIONAL SYMPOSIUM ON GAS
 TRANSFER AT WATER SURFACES, JUNE 5-8
 02/05/1999 - 01/31/2001 FY01: \$0 Total: \$18,000
Prin. Invest.: M DONELAN
Tech. Officer: GSFC/J W CAMPBELL
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8222 **UNIV OF MIAMI** **3784**
 ACTIVITIES AS PROJECT SCIENTIST OF GLOBAL MODELING INITIATIVE
 02/10/1999 - 12/31/2000 FY01: \$0 Total: \$243,431
Prin. Invest.: J RODRIGUEZ
Tech. Officer: GSFC/R W STEWART
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 8229 **UNIV OF MIAMI** **3785**
 STUDIES OF WESTERN PACIFIC INTERANNUAL ANOMALY PATTERNS
 TOWARD IMPROVED ENSO PREDICTION.
 02/24/1999 - 03/31/2002 FY01: \$49,075 Total: \$175,623
Prin. Invest.: G HALIWELL
Tech. Officer: GSFC/M RIENECKER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8864 **UNIV OF MIAMI** **3786**
 SEAWIFS DATA COLLECTION, CALIBRATION, & PROCESSING FOR THE
 INDIAN OCEAN
 12/02/1999 - 01/31/2002 FY01: \$54,525 Total: \$107,010
Prin. Invest.: R H EVANS
Tech. Officer: GSFC/J MARRA
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9066 **UNIV OF MIAMI** **3787**
 PRESENT DAY TECTONICS OF THE CENTRAL ANDES
 02/18/2000 - 02/28/2002 FY01: \$16,500 Total: \$66,000
Prin. Invest.: T H DIXON
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 9068 **UNIV OF MIAMI** **3788**
 VOLCANO PLUME MONITORING USING UNMANNED AERIAL VEHICLES
 02/17/2000 – 02/28/2002 FY01: \$113,510 Total: \$188,510
Prin. Invest.: T H DIXON
Tech. Officer: GSFC/H V FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 9627 **UNIV OF MIAMI** **3789**
 A SATELLITE DATA RECEPTION & ANALYSIS FACILITY FOR ENVIRONMENTAL MONITORING IN THE SOUTHEASTERN
 08/10/2000 – 07/14/2002 FY01: \$997,800 Total: \$1,912,800
Prin. Invest.: T DIXON
Tech. Officer: GSFC/A R TUYAHOV
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 9739 **UNIV OF MIAMI** **3790**
 DERIVATION, VALIDATION, & EXPLOITATION OF SEA-SURFACE TEMPERATURES MEASURED BY SENSORS ON TRMM
 06/28/2000 – 05/31/2002 FY01: \$92,000 Total: \$151,500
Prin. Invest.: P J MINNETT
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 10588 **UNIV OF MIAMI** **3791**
 CONTINUED PROCESSING & EXTENSION OF THE AVHRR PATH FINDER OCEANS GLOBALSEA SURFACE TEMPERATURE DATA
 03/20/2001 – 03/31/2002 FY01: \$107,060 Total: \$107,060
Prin. Invest.: R EVANS
Tech. Officer: GSFC/J DODGE
CASE Category: 33 – OCEANOGRAPHY

NAG 5 10725 **UNIV OF MIAMI** **3792**
 ACTIVITIES AS PROJECT SCIENTIST OF THE GLOBAL MODE LING INITIATIVE.
 04/09/2001 – 02/28/2002 FY01: \$162,267 Total: \$162,267
Prin. Invest.: J RODRIGUEZ
Tech. Officer: GSFC/P DECOLA
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10928 **UNIV OF MIAMI** **3793**
 A SATELLITE DATA RECEPTION & ANALYSIS FACILITY FOR ENVIRONMENTAL MONITORING IN THE SOUTHEASTERN
 05/11/2001 – 06/08/2001 FY01: \$0 Total: \$0
Prin. Invest.: T DIXON
Tech. Officer: GSFC/T GUBBELS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 10963 **UNIV OF MIAMI** **3794**
 IMPROVING TROPICAL CYCLONE QUANTITATIVE PRECIPITATION FORECASTS USING TRMM PRECIPITATION ESTIMATES
 06/01/2001 – 05/31/2002 FY01: \$70,000 Total: \$70,000
Prin. Invest.: S S CHEN
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 11104 **UNIV OF MIAMI** **3795**
 TRANS-OCEANIC MEASUREMENTS FOR EOS AQUA VALIDATION-AQUA-0058-0087
 07/13/2001 – 08/31/2002 FY01: \$163,174 Total: \$163,174
Prin. Invest.: P J MINNETT
Tech. Officer: GSFC/D Q STARR
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 11277 **UNIV OF MIAMI** **3796**
 ANALYSIS OF TROPOSPHERIC MEASUREMENTS UTILIZING A HIERARCHY OF MODELS
 08/22/2001 – 08/31/2004 FY01: \$78,555 Total: \$78,555
Prin. Invest.: J RODRIQUEZ
Tech. Officer: GSFC/P DECOLA
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 9 1346 **UNIV OF MIAMI** **3797**
 AWARD BASIC GRANT
 07/27/2001 – 09/30/2004 FY01: \$66,000 Total: \$66,000
Prin. Invest.: L INVERARDI
Tech. Officer: JSC/D RISEN
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAS 5 31361 **UNIV OF MIAMI** **3798**
 MODIS – INVESTIGATION
 01/15/1992 – 03/14/2002 FY01: \$1,161,000 Total: \$8,314,000
Prin. Invest.: O B BROWN
Tech. Officer: GSFC/H OSEROFF
CASE Category: 33 – OCEANOGRAPHY

NAS 5 31362 **UNIV OF MIAMI** **3799**
 EOS/MODIS INVESTIGATION ENTITLED: "PROCESSING/ CALIBRATION FOR OCEAN OBSERVATION WITH EOS/MODIS"
 12/13/1991 – 03/14/2002 FY01: \$1,377,000 Total: \$11,122,000
Prin. Invest.: R EVANS
Tech. Officer: GSFC/H OSEROFF
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 31363 **UNIV OF MIAMI** **3800**
 MODERATE RESOLUTION IMAGING SPECTROMETER INVESTIGATION – OCEAN
 01/15/1992 – 03/14/2002 FY01: \$836,000 Total: \$6,198,000
Prin. Invest.: H GORDON
Tech. Officer: GSFC/H OSEROFF
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 31734 **UNIV OF MIAMI** **3801**
 DEVELOPMENT FOR SEAWIFS
 11/22/1991 – 04/21/2001 FY01: \$51,252 Total: \$318,375
Prin. Invest.: H GORDAN
Tech. Officer: GSFC/C MCLAIN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 1 01021 **UNIV OF MIAMI** **3802**
 DEPLOY FAST-GAS GC/MS SYS TO MEAS C2&C5 CARBONYLS, METHANOL & ETHANOL ON NASA AIRCRAFT DURING TRACE-
 03/13/2001 – 10/14/2002 FY01: \$49,959 Total: \$49,959
Prin. Invest.: D D RIEMER
Tech. Officer: LARC/J L RAPER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 5 30222 UNIV OF MIAMI 3803
 MID-OCEAN MESOSCALE VARIABILITY AS DEDUCED FROM TOPEX ALTI-
 METRY & HIGH-RESOLUTION NUMERICAL MODEL
 08/26/1999 - 08/31/2000 FY01: \$0 Total: \$10,000
Prin. Invest.: O B BROWN
Tech. Officer: GSFC/M Y WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30425 UNIV OF MIAMI 3804
 A STUDY OF GLOBAL RAINFALL DISTRIBUTIONS IN TROPICAL CYCLONES
 USING NASA/TRMM DATA/STUDENT: MAN
 09/19/2001 - 09/30/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: S S CHEN
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 1 01046 UNIV OF SOUTH FLORIDA 3805
 COMBINED THERMAL AND STRUCTURAL OPTIMIZATION OF FUNCTIONALLY
 GRADED TILE
 03/26/2001 - 12/31/2001 FY01: \$65,000 Total: \$65,000
Prin. Invest.: R T HAFTA, S VENKATARAMAN, B V SANKAR
Tech. Officer: LARC/M L BLOSSER
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 3 2614 UNIV OF SOUTH FLORIDA 3806
 DEVELOPMENT OF A FLEXIBLE II-VI-BASED HIGH PERFORMANCE HIGH
 BANDGAP DEVICE FOR THIN FILM TANDEM SOL
 05/23/2001 - 04/30/2003 FY01: \$58,837 Total: \$58,837
Prin. Invest.: D MOREL
Tech. Officer: GRC/A HEPP
CASE Category: 45 - ELECTRICAL ENGR

NAG 5 3446 UNIV OF SOUTH FLORIDA 3807
 BOTTOM-ASSESSMENT AND WATER-CONSTITUENT ALGORITHM S FOR
 THE ETM IN THE COASTAL ZONE
 10/10/1996 - 06/30/2001 FY01: \$69,917 Total: \$782,681
Prin. Invest.: KARGER
Tech. Officer: GSFC/D L WILLIAMS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 5202 UNIV OF SOUTH FLORIDA 3808
 COLLABORATION ON A STUDY OF SIGMA NAUGHT BLOOM EFFECTS ON
 RADAR ALTIMETERS
 06/18/1998 - 06/21/2002 FY01: \$35,000 Total: \$110,000
Prin. Invest.: G T MITCHUM
Tech. Officer: GSFC/G S HAYNE
CASE Category: 33 - OCEANOGRAPHY

NAG 5 6301 UNIV OF SOUTH FLORIDA 3809
 HYPERSPECTRAL CHARACTERIZATION FOR APPLICATION TO CARBON
 CYCLING IN COASTAL REGIONS
 09/02/1997 - 08/14/2001 FY01: \$0 Total: \$335,571
Prin. Invest.: P COBLE
Tech. Officer: GSFC/J YODER
CASE Category: 33 - OCEANOGRAPHY

NAG 5 6448 UNIV OF SOUTH FLORIDA 3810
 SYNOPTIC ANALYSIS OF FACTORS INFLUENCING CARBON FLUXES AT THE
 CARIACO CONTINENTAL MARGIN TIME SER
 10/24/1997 - 09/30/2001 FY01: \$0 Total: \$446,836
Prin. Invest.: F MULLER-KARGER
Tech. Officer: GSFC/J MARRA
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6449 UNIV OF SOUTH FLORIDA 3811
 A NUMERICAL ANALYSIS OF NEW NITROGEN SOURCES OF NO 3 AND N2
 EFFECTING CARBON CYCLING IN THE SOUTH
 10/24/1997 - 10/14/2001 FY01: \$0 Total: \$582,965
Prin. Invest.: J WALSH
Tech. Officer: GSFC/J MARRA
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8175 UNIV OF SOUTH FLORIDA 3812
 SOUTHEASTERN US X-BAND EOS DB RECEPTION FACILITY (SEUS-X):
 INFRASTRUCTURE FOR ENVIRONMENTAL ASSE
 02/04/1999 - 02/14/2001 FY01: -\$9,340 Total: \$490,660
Prin. Invest.: F E MULLER-KARGER
Tech. Officer: GSFC/J DODGE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10532 UNIV OF SOUTH FLORIDA 3813
 SOUTHEASTERN US X-BAND EOS DB PROCESSING AND ANALYSIS
 FACILITY INFRASTRUCTURE FOR ENVIRONMENT
 03/12/2001 - 02/28/2002 FY01: \$227,319 Total: \$227,319
Prin. Invest.: F MULLER-KARGER
Tech. Officer: GSFC/J DODGE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10738 UNIV OF SOUTH FLORIDA 3814
 IMPACTS OF LARGE RIVER PLUMES ON CARBON AND SALT FLUXES IN THE
 SURFACE OCEAN
 04/18/2001 - 04/30/2002 FY01: \$125,853 Total: \$125,853
Prin. Invest.: C CHU
Tech. Officer: GSFC/J MARRA
CASE Category: 33 - OCEANOGRAPHY

NAG 5 10908 UNIV OF SOUTH FLORIDA 3815
 A MILLENNIUM GLOBAL SCALE CORAL REEF ECOSYSTEM ASSESSMENT
 USING HIGH RESOLUTION REMOTESENSING DATA
 05/07/2001 - 05/31/2002 FY01: \$50,000 Total: \$50,000
Prin. Invest.: S ANDREFOUET
Tech. Officer: GSFC/J MARRA
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 11254 UNIV OF SOUTH FLORIDA 3816
 AN ASSESSMENT OF GLOBAL ORGANIC CARBON FLUX ALONG CONTI-
 NENTAL MARGINS
 08/20/2001 - 08/31/2004 FY01: \$133,545 Total: \$133,545
Prin. Invest.: F MULLER-KARGER
Tech. Officer: GSFC/J MARRA
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1381 UNIV OF SOUTH FLORIDA 3817
 RESEARCH "DEVELOPMENT OF AN INSULIN SECRETING IMMUNOPRIV-
 LEGED CELL-CELL AGGREGATE UTILIZING
 06/01/1997 - 12/31/2001 FY01: \$50,000 Total: \$426,000
Prin. Invest.: D CAMERON
Tech. Officer: MSFC/B GUYNES, MSFC/J MAYO
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 9 648 UNIV OF SOUTH FLORIDA 3818
 EVALUATION OF OVARIAN TUMOR CELL GROWTH AND GENE EXPRESSION
 10/28/1992 - 01/31/2002 FY01: \$0 Total: \$600,000
Prin. Invest.: J L BECKER
Tech. Officer: JSC/S R GONDA
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 9 1341 UNIV OF SOUTH FLORIDA 3819
 3D GROWTH EFFECTS ON DRUG RESISTANCE IN HUMAN OVARIAN TUMOR CELLS
 08/01/2001 – 09/30/2004 FY01: \$35,000 Total: \$35,000
Prin. Invest.: J L BECKER, NONE
Tech. Officer: JSC/D RISIN
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 9 1365 UNIV OF SOUTH FLORIDA 3820
 CREATION AND TRANSPLANTATION OF IMMUNOPRIVILEGED SERTOLI-NUERON –AGGREGATED CELLS
 07/27/2001 – 09/30/2002 FY01: \$68,000 Total: \$68,000
Prin. Invest.: S SAPORTA, D F CAMERON, A E WILLING
Tech. Officer: JSC/D RISEN
CASE Category: 56 – MEDICL

NAG10 204 UNIV OF SOUTH FLORIDA 3821
 EDUCATION GRANT ENTITLED "YES WE CARE"
 01/07/1997 – 06/30/2002 FY01: \$0 Total: \$324,546
Prin. Invest.: R E HENNING
Tech. Officer: KSC/J A DIGGS
CASE Category: 41 – AERONAUTICAL ENGR

NAS 3 26412 UNIV OF SOUTH FLORIDA 3822
 ACTS PROPAGATION EXPERIMENTS
 05/03/1993 – 09/30/2000 FY01: \$0 Total: \$376,895
Prin. Invest.: R E HENNING
Tech. Officer: GRC/G J GUNDERMAN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAS 5 31716 UNIV OF SOUTH FLORIDA 3823
 EARTH OBSERVING SYSTEM MODIS/HIRIS TEAM MEMBER INVESTIGATION
 01/15/1992 – 12/14/2001 FY01: \$698,000 Total: \$5,511,168
Prin. Invest.: K R CARDER
Tech. Officer: GSFC/H OSEROFF
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 97128 UNIV OF SOUTH FLORIDA 3824
 CAL/VAL OF CARBON FLUXES FOR SIMBIOS
 08/18/1997 – 10/17/2001 FY01: \$0 Total: \$616,988
Prin. Invest.: F E MULLER-KARGER
Tech. Officer: GSFC/C R MCCLAIN
CASE Category: 33 – OCEANOGRAPHY

NAS 5 97137 UNIV OF SOUTH FLORIDA 3825
 STRAY LIGHT & ATMOSPHERIC ADJACENCY EFFECTS FOR LARGE FOV OCEAN VIEWING SPACE SENSORS
 09/23/1997 – 03/22/2001 FY01: \$0 Total: \$520,841
Prin. Invest.: K CARTER
Tech. Officer: GSFC/J L MUELLER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 5 30143 UNIV OF SOUTH FLORIDA 3826
 EL NINO/SOUTHERN OSCILLATION IN THE ANTARCTIC CIRCUMPOLAR CURRENT
 08/27/1998 – 08/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: G T MITHCHUM, HAAN
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 30159 UNIV OF SOUTH FLORIDA 3827
 FUNCTIONAL GROUPING OF PLANTS IN FLORIDA SCRUB HABITAT
 08/28/1998 – 08/31/2000 FY01: \$0 Total: \$22,000
Prin. Invest.: J R BROOKS
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 30346 UNIV OF SOUTH FLORIDA 3828
 CHARACTERIZATION OF CDOM RIVERINE CONTRIBUTION AND DISTRIBUTION THROUGH REMOTE SENSING SATELLITE IMA
 08/21/2000 – 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: P COBLE
Prin. Invest.: NONE
Tech. Officer: GSFC/M WEI
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 30354 UNIV OF SOUTH FLORIDA 3829
 IMPACT OF LARGE & SMALL RIVERSON ADJACENT OCEANIC ENVIRONMENTS/STUDENT: ANA ODRIOLLA
 08/24/2000 – 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: F MULLER-KARGER
Tech. Officer: GSFC/M WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 30414 UNIV OF SOUTH FLORIDA 3830
 MAPPING AND MONITORING OF CHANGE IN THE FLORIDA KEYS REEF TRACT FROM SPACE USING LANDSAT 7, MODIS
 08/15/2001 – 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: F MULLER-KARGER
Tech. Officer: GSFC/M WEI
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 1 2236 UNIV OF WEST FLORIDA 3831
 INTELLIGENT TACTILE SYSTEMS FOR IMPROVED SAFETY OF FLIGHT (NRA-98-LARC-8)
 09/20/1999 – 12/31/2001 FY01: \$163,512 Total: \$395,962
Prin. Invest.: A K RAV
Tech. Officer: LARC/W K GERDEN
CASE Category: 41 – AERONAUTICAL ENGR

NAG 2 1225 UNIV OF WEST FLORIDA 3832
 ATTENTION DIRECTING PILOTING DISPLAY: OZ A COMPUTER BASED HUMAN-CENTERED SYSTEM
 05/29/1998 – 01/31/2002 FY01: \$99,268 Total: \$472,427
Prin. Invest.: D L STILL
Tech. Officer: ARC/D C FOYLE
CASE Category: 69 – PSYCHOLOGY, OTHER

NAG 2 1226 UNIV OF WEST FLORIDA 3833
 INTELLIGENT HUMAN COMPUTER TACTILE INTERFACES FOR ROTORCRAFT & CIVIL AVIATION
 06/11/1998 – 12/31/2001 FY01: \$0 Total: \$485,906
Prin. Invest.: N SURI, F GUEDRY, A RAZ
Tech. Officer: ARC/J DEMAIO, ARC/J V LEBACQZ
CASE Category: 41 – AERONAUTICAL ENGR

NAG 2 1332 UNIV OF WEST FLORIDA 3834
 ADAPTING AN ATTENTION DIRECTION PILOTING DISPLAY FOR THE SPACE SHUTTLE
 06/21/1999 – 09/30/2001 FY01: \$74,982 Total: \$222,596
Prin. Invest.: D STILL
Tech. Officer: HQ/A R GROSS
CASE Category: 45 – ELECTRICAL ENGR

NAG 2 1490 UNIV OF WEST FLORIDA 3835
 TACTILE INTERFACES TO ENHANCE SAFETY PERFORMANCE AND RELIABILITY IN AGRICULTURAL
 07/02/2001 – 12/31/2001 FY01: \$54,000 Total: \$54,000
Prin. Invest.: A K RAJ
Tech. Officer: ARC/J DEMAIO
CASE Category: 69 – PSYCHOLOGY, OTHER

NAG 5 8782 UNIV OF WEST FLORIDA 3836
 HAPTIC INTERFACES TO AUGMENT HUMAN/MACHINE INTERACTION IN SPACE ACTIVITIES
 08/30/1999 – 02/28/2002 FY01: \$154,987 Total: \$402,754
Prin. Invest.: A K RAJ
Tech. Officer: GSFC/R CROUCH
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 9 1386 UNIV OF WEST FLORIDA 3837
 HUMAN CENTERED COMPUTING PERSPECTIVE ON MARS EXPLORATION
 09/21/2001 – 09/30/2002 FY01: \$175,000 Total: \$175,000
Prin. Invest.: J HANSEN
Tech. Officer: JSC/B WARD
CASE Category: 49 – ENGINEERING, OTHER

NCC 2 1036 UNIV OF WEST FLORIDA 3838
 EXPLANATION & COLLABORATION THROUGH CONCEPT MAPS
 05/07/1998 – 06/30/2001 FY01: \$0 Total: \$604,499
Prin. Invest.: A J CANAS
Tech. Officer: ARC/B H WHITAKER
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NCC 2 1191 UNIV OF WEST FLORIDA 3839
 UNSOLOCIATED PROPOSAL TO ESTABLISH THE INFORMATION TECHNOLOGY ASSESSMENT CONSORTIUM (ITAC) & SUPPORT
 08/07/2000 – 12/31/2001 FY01: \$793,849 Total: \$959,849
Prin. Invest.: K M FORD
Tech. Officer: ARC/M E DUENAS
CASE Category: 22 – COMPUTER SCIENCE

NCC 2 1239 UNIV OF WEST FLORIDA 3840
 POLISHING: ENHANCING DATA QUALITY BY REPAIRING IMPERFECTIONS
 04/06/2001 – 02/28/2002 FY01: \$117,000 Total: \$117,000
Prin. Invest.: C M TENG
Tech. Officer: ARC/J SKILES
CASE Category: 22 – COMPUTER SCIENCE

NCC 2 1254 UNIV OF WEST FLORIDA 3841
 TEAMWORK IN PRACTICE: DESIGN FOR COLLABORATION IN MIXED HUMAN-ROBOTIC TEAMS
 04/27/2001 – 02/28/2002 FY01: \$162,000 Total: \$162,000
Prin. Invest.: J M BRADSHAW
Tech. Officer: ARC/R L ALENA, ARC/M G SHAFITO
CASE Category: 22 – COMPUTER SCIENCE

NCC 2 1283 UNIV OF WEST FLORIDA 3842
 MULTI-AGENT SOFTWARE DESIGN & ENGINEERING FOR HUMAN-CENTERED COLLABORATIVE AUTONOMOUS SPACE SYSTEMS
 09/04/2001 – 08/31/2002 FY01: \$297,400 Total: \$297,400
Prin. Invest.: J M BRADSHAW
Tech. Officer: ARC/D CLANCY
CASE Category: 22 – COMPUTER SCIENCE

NAG10 165 VALENCIA COMMUNITY COLLEGE 3843
 HIGH TECH TRAINING OF INDIVIDUALS WITH DISABILITY
 06/06/1995 – 08/31/2000 FY01: \$20,000 Total: \$135,043
Prin. Invest.: K WOODBERRY
Tech. Officer: KSC/G BUCKINGHAM
CASE Category: 22 – COMPUTER SCIENCE

GEORGIA

NAG10 265 ALBANY STATE UNIV 3844
 ALBANY STATE UNIV HIGH SCHOOL/HIGH TECH ALBANY STATE UNIV HIGH SCHOOL/HIGH TECH
 09/10/1999 – 09/30/2002 FY01: \$75,000 Total: \$200,000
Prin. Invest.: D HODGES-TILLER
Prin. Invest.: NONE
Tech. Officer: KSC/R J MCKINNEY
CASE Category: 79 – SOCIAL SCIENCE, OTHER

NAG 1 01091 CLARK ATLANTA UNIV 3845
 COMMERCIAL PROCESS DEVELOPMENT FOR POLYIMIDE FOAMS
 05/24/2001 – 05/24/2004 FY01: \$75,000 Total: \$75,000
Prin. Invest.: D R VEAZIE
Tech. Officer: LARC/E S WEISER
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1973 CLARK ATLANTA UNIV 3846
 GROWTH AND CHARACTERIZATION OF III-V SEMICONDUCTORS FOR DEVICE APPLICATIONS
 09/26/1996 – 06/30/2000 FY01: \$0 Total: \$299,214
Prin. Invest.: M D WILLIAMS
Tech. Officer: GRC/S A ALTERNOVITZ
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 2292 CLARK ATLANTA UNIV 3847
 TEST AND EVALUATION OF NONCHROMATE FINISHING AGENT
 09/29/1999 – 08/23/2001 FY01: \$0 Total: \$199,998
Prin. Invest.: D OKHIO
Tech. Officer: GRC/R LAWRENCE
CASE Category: 43 – CHEMICAL ENGR

NAG 5 6889 CLARK ATLANTA UNIV 3848
 ELECTRON EXCITATION CROSS SECTIONS OF ATOMS AND IONS RELEVANT TO PLANETARY ATMOSPHERES
 01/21/1998 – 09/30/2001 FY01: \$0 Total: \$192,755
Prin. Invest.: S TAYAL
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 – ASTRONOMY

NAG 5 8792 **CLARK ATLANTA UNIV** **3849**
 DEVELOPMENT OF DISPERSION RELATIONS FOR SOLAR AND STELLAR
 DIAGNOSTICS
 09/02/1999 - 08/31/2001 FY01: \$0 Total: \$197,950
Prin. Invest.: A MSEZANE
Tech. Officer: GSFC/A TEMKIN
CASE Category: 13 - PHYSICS

NAG 8 1493 **CLARK ATLANTA UNIV** **3850**
 MOBILE SCIENCE, MATHEMATICS EDUCATION UNIT
 06/01/1998 - 08/15/2001 FY01: \$0 Total: \$295,984
Prin. Invest.: A MSEZANE
Tech. Officer: MSFC/W LOVE
CASE Category: 21 - MATHEMATICS

NAG 8 1535 **CLARK ATLANTA UNIV** **3851**
 MASTAP FOR SCIENCE TEACHERS OPEN SUPPORT SYSTEMS (S-TOSS)
 05/07/1998 - 05/01/2001 FY01: \$0 Total: \$600,000
Prin. Invest.: B E ALICK
Tech. Officer: MSFC/A C BEAM
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1814 **CLARK ATLANTA UNIV** **3852**
 TRANSFER ICEMS INSPIRING CAREERS IN ENGINEERING, MATHEMATICS
 AND SCIENCE FROM MOORHOUSE TO CLARK AT
 05/21/2001 - 09/05/2001 FY01: \$19,864 Total: \$19,864
Prin. Invest.: E MCDONALD *Prin. Invest.:* NONE
Tech. Officer: MSFC/E ORDONEZ
CASE Category: 21 - MATHEMATICS

NAS 3 01201 **CLARK ATLANTA UNIV** **3853**
 RESIN TRANSFER MOLDING AND VACUUM ASSISTED RESIN TRANSFER
 MOLDING PROGRAM
 08/27/2001 - 07/31/2002 FY01: \$56,136 Total: \$56,136
Prin. Invest.: E A MINTZ
Tech. Officer: GRC/M A MEADOR
CASE Category: 12 - CHEMISTRY

NCC 3 552 **CLARK ATLANTA UNIV** **3854**
 HIGH PERFORMANCE POLYMERS AND COMPOSITES CENTER
 04/29/1997 - 02/28/2002 FY01: \$1,649,525 Total: \$4,999,438
Prin. Invest.: A A MINTZ
Tech. Officer: GRC/S DUTTA, GRC/M A MEADOR
CASE Category: 47 - METAL & MATERIALS ENGR

NCC 3 707 **CLARK ATLANTA UNIV** **3855**
 LIQUID FUELS: PYROLYTIC DEGRADATION AND FIRE SPREAD BEHAVIOR
 AS INFLUENCED BY BUOYANCY
 05/19/1999 - 03/14/2002 FY01: \$132,964 Total: \$367,234
Prin. Invest.: Y D YEBOAH
Tech. Officer: GRC/H D ROSS
CASE Category: 49 - ENGINEERING, OTHER

NCC 3 910 **CLARK ATLANTA UNIV** **3856**
 DEVELOPMENT OF THERMALLY STABLE AND HIGHLY FLUORESCENT IR
 DYES
 08/21/2001 - 08/19/2002 FY01: \$20,000 Total: \$20,000
Prin. Invest.: D R BU
Tech. Officer: GRC/M A MEADOR
CASE Category: 12 - CHEMISTRY

NCC 3 911 **CLARK ATLANTA UNIV** **3857**
 DEVELOPING NOVEL FLUORESCENT MATERIALS WITH NEAR INFRARED
 EMISSION BY USING M-PHEYLENE
 09/04/2001 - 08/19/2002 FY01: \$20,000 Total: \$20,000
Prin. Invest.: D PANG
Tech. Officer: GRC/M A MEADOR
CASE Category: 12 - CHEMISTRY

NCC 5 347 **CLARK ATLANTA UNIV** **3858**
 INTEGRATION OF RESEARCH AND EDUCATION IN THE AREA OF EARTH
 SYSTEMS SCIENCE
 07/01/1998 - 06/30/2002 FY01: \$440,032 Total: \$1,929,914
Prin. Invest.: C H WILLIAMS
Tech. Officer: GSFC/M MATHEWS
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1579 **EMORY UNIV** **3859**
 DESIGN, SYNTHESIS, AND CHARACTERIZATION OF WELL-DEFINED, BIOMI-
 METIC POLYPEPTIDE NETWORKS
 01/05/1999 - 11/30/2002 FY01: \$115,900 Total: \$340,424
Prin. Invest.: V CONTICELLO
Tech. Officer: MSFC/B GUYNES
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 1 1890 **GEORGIA INST OF TECHNOLOGY** **3860**
 HIGH TEMPERATURE COMPOSITE/METAL LAMINATES
 01/17/1997 - 08/31/2000 FY01: -\$1 Total: \$181,232
Prin. Invest.: W S JOHNSON
Tech. Officer: LARC/T L ST. CLAIR, LARC/S E LOWTHER
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 1 2014 **GEORGIA INST OF TECHNOLOGY** **3861**
 TECHNIQUES FOR IMPROVING PILOT RECOVERY FROM SYSTEM FAILURES
 03/02/1998 - 08/31/2001 FY01: \$1 Total: \$158,744
Prin. Invest.: A R PRITCHETT
Tech. Officer: LARC/A C TRUJILLO
CASE Category: 41 - AERONAUTICAL ENGR

NAG 1 2146 **GEORGIA INST OF TECHNOLOGY** **3862**
 APPLIC OF CIRCULATION CONTROL TECHNOL TO AIRFRAME NOISE
 REDUCTION
 03/09/1999 - 02/28/2002 FY01: \$215,000 Total: \$634,721
Prin. Invest.: K K AHUIA, L N SANKAR, R J ENGLAN
Tech. Officer: LARC/R R ANTCLIFF
CASE Category: 41 - AERONAUTICAL ENGR

NAG 1 2149 **GEORGIA INST OF TECHNOLOGY** **3863**
 DEVELOPMENT FOR ADVANCED LIFE CYCLE COSTING METHOD FOR
 TECHNOLOGY BENEFITS/COSTS/RISK ASSESSMENT
 03/26/1999 - 12/31/2001 FY01: \$108,342 Total: \$323,593
Prin. Invest.: D N MAVRIS
Tech. Officer: LARC/M D MOORE, LARC/P A GELHAUSEN
CASE Category: 41 - AERONAUTICAL ENGR

NAG 1 2169 **GEORGIA INST OF TECHNOLOGY** **3864**
 PNEUMATIC AERODYNAMICS AND CONTROL FOR CHANNEL WING
 POWERED-LIFT AIRCRAFT
 03/24/1999 - 02/28/2002 FY01: \$103,000 Total: \$298,000
Prin. Invest.: R J ENGLAR
Tech. Officer: LARC/W T HODGES123
CASE Category: 41 - AERONAUTICAL ENGR

<p>NAG 2 1488 GEORGIA INST OF TECHNOLOGY 3881 REAL-TIME CONTROL OF LEAN BLOWOUT IN A TURBINE ENGINE FOR MINIMIZING NOX EMISSIONS 06/27/2001 – 05/31/2002 FY01: \$349,978 Total: \$349,978 <i>Prin. Invest.:</i> B ZINN <i>Tech. Officer:</i> ARC/N N MANSOUR <i>CASE Category:</i> 41 – AERONAUTICAL ENGR</p>	<p>NAG 3 2431 GEORGIA INST OF TECHNOLOGY 3889 NON-COALESCENCE IN MICROGRAVITY: SCIENCE AND TECHNOLOGY 05/23/2000 – 11/30/2003 FY01: \$83,600 Total: \$133,600 <i>Prin. Invest.:</i> D P NEITZEL <i>Tech. Officer:</i> GRC/R SKARDA <i>CASE Category:</i> 49 – ENGINEERING, OTHER</p>
<p>NAG 3 1894 GEORGIA INST OF TECHNOLOGY 3882 NON-COALESCENCE EFFECTS IN MICROGRAVITY 06/17/1996 – 06/16/2001 FY01: \$0 Total: \$487,015 <i>Prin. Invest.:</i> G P NEITZEL <i>Tech. Officer:</i> GRC/R S KARDA <i>CASE Category:</i> 46 – MECHANICAL ENGR</p>	<p>NAG 3 2500 GEORGIA INST OF TECHNOLOGY 3890 NONLINEAR DYNAMIC ANALYSIS OF DISORDERED BLADE-DISK ASSEMBLIES 11/03/2000 – 09/30/2001 FY01: \$73,412 Total: \$73,412 <i>Prin. Invest.:</i> D G MCGEE, NONE <i>Tech. Officer:</i> GRC/J M LUCERO <i>CASE Category:</i> 41 – AERONAUTICAL ENGR</p>
<p>NAG 3 1949 GEORGIA INST OF TECHNOLOGY 3883 THE DEVELOPMENT OF NOVEL, HIGH-FLUX, HEAT TRANSFER CELLS FOR THERMAL CONTROL IN MICROGRAVITY 09/17/1996 – 09/12/2001 FY01: \$0 Total: \$480,000 <i>Prin. Invest.:</i> M K SMITH, A GLEZER <i>Tech. Officer:</i> GRC/B SINGH <i>CASE Category:</i> 46 – MECHANICAL ENGR</p>	<p>NAG 3 2580 GEORGIA INST OF TECHNOLOGY 3891 MULTI-ACCESS & ROUTING PROTOCOLS FOR MULTICAST APPLICATIONS IN SATELLITE IP NETWORKS 04/05/2001 – 03/07/2004 FY01: \$55,000 Total: \$55,000 <i>Prin. Invest.:</i> I F AKYILDIZ <i>Tech. Officer:</i> GRC/C T RAMOS <i>CASE Category:</i> 29 – MATH/COMPUTER SCI, OTHER</p>
<p>NAG 3 2006 GEORGIA INST OF TECHNOLOGY 3884 TERRESTRIAL EXPERIMENTS ON G-DUST EFFECTS ON TRANSPORT & PATTERN FORMATION 01/24/1997 – 07/16/2001 FY01: \$0 Total: \$277,327 <i>Prin. Invest.:</i> M F SCHATZ, H L SWINNEY <i>Tech. Officer:</i> GRC/W DUVAL, GRC/T K GLASGOW <i>CASE Category:</i> 47 – METAL & MATERIALS ENGR</p>	<p>NAG 3 2585 GEORGIA INST OF TECHNOLOGY 3892 A MULTICAST PROTOCOL SUITE FOR SATELLITE IP NETWORKS 04/10/2001 – 02/28/2004 FY01: \$149,833 Total: \$149,833 <i>Prin. Invest.:</i> D F AKYILDIZ <i>Tech. Officer:</i> GRC/C T RAMOS <i>CASE Category:</i> 45 – ELECTRICAL ENGR</p>
<p>NAG 3 2205 GEORGIA INST OF TECHNOLOGY 3885 NONLINEAR DYNAMIC ANALYSIS OF DISORDERED BLADED-DISK ASSEMBLIES 10/07/1998 – 09/30/1999 FY01: -\$13,408 Total: \$1,591 <i>Prin. Invest.:</i> O G MCGEE <i>Tech. Officer:</i> GRC/G L STEFKO <i>CASE Category:</i> 41 – AERONAUTICAL ENGR</p>	<p>NAG 3 2586 GEORGIA INST OF TECHNOLOGY 3893 AN INVESTIGATION OF APPLICATIONS FOR THERMODYNAMIC WORK POTENTIAL TO TURBOSHAFT ENGINE TECH EVALUATION 04/06/2001 – 02/28/2002 FY01: \$60,000 Total: \$60,000 <i>Prin. Invest.:</i> D N MAVRIS <i>Tech. Officer:</i> GRC/D THURMAN <i>CASE Category:</i> 41 – AERONAUTICAL ENGR</p>
<p>NAG 3 2329 GEORGIA INST OF TECHNOLOGY 3886 SINGLE-/MULTI-LAYER MICROSTRIP AND COPLANAR WAVEGUIDE LINES CROSSTALK 02/09/2000 – 01/31/2003 FY01: \$49,152 Total: \$98,233 <i>Prin. Invest.:</i> D M TENTZERIS <i>Tech. Officer:</i> GRC/G E PONCHAK <i>CASE Category:</i> 45 – ELECTRICAL ENGR</p>	<p>NAG 5 3855 GEORGIA INST OF TECHNOLOGY 3894 THE YANGTZE DELTA OF CHINA AS AN EVOLVING METRO-AG (148-65-80-04) 02/03/1997 – 11/30/2000 FY01: \$0 Total: \$1,446,050 <i>Prin. Invest.:</i> W L CHAMEIDES <i>Tech. Officer:</i> GSFC/A J TUYAHOV <i>CASE Category:</i> 39 – ENVIRONMENTAL SCI, OTHER</p>
<p>NAG 3 2352 GEORGIA INST OF TECHNOLOGY 3887 DISTRIBUTED EXHAUST NOZZLES FOR JET NOISE REDUCTION 03/10/2000 – 09/30/2001 FY01: \$0 Total: \$149,991 <i>Prin. Invest.:</i> D K AHULA <i>Tech. Officer:</i> GRC/N H SAIYED <i>CASE Category:</i> 41 – AERONAUTICAL ENGR</p>	<p>NAG 5 4190 GEORGIA INST OF TECHNOLOGY 3895 LABORATORY EVALUATION AND APPLICATION OF MICROWAVE UNDER SIMULATED CONDITIONS FOR PLANETARY ATMOSPHERE 06/10/1997 – 12/31/2001 FY01: \$92,417 Total: \$432,851 <i>Prin. Invest.:</i> D G STEFFES <i>Tech. Officer:</i> GSFC/J BERGSTRALH <i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE</p>
<p>NAG 3 2373 GEORGIA INST OF TECHNOLOGY 3888 NOVEL OPTICAL DIAGNOSTICS TECHNIQUES FOR STUDYING PARTICLE CONTACT AND DEPOSITION UPON A LARGE CYLINDER 03/28/2000 – 11/30/2003 FY01: \$75,904 Total: \$117,152 <i>Prin. Invest.:</i> D YODA <i>Tech. Officer:</i> GRC/F P CHIARAMONTE <i>CASE Category:</i> 49 – ENGINEERING, OTHER</p>	<p>NAG 5 6022 GEORGIA INST OF TECHNOLOGY 3896 RESEARCH PROPOSAL ENTITLED "MODELING AND DATA ANALYSIS OF SULFATE AEROSOL" 08/19/1997 – 02/14/2002 FY01: \$0 Total: \$278,358 <i>Prin. Invest.:</i> M CHIN <i>Tech. Officer:</i> GSFC/A THOMPSON <i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE</p>

NAG 5 7420 **GEORGIA INST OF TECHNOLOGY** **3897**
 ANALYSIS OF USER ASSISTANCE REQUESTS AT THE NASA G ODDARD
 DISTRIBUTEDACTIVE ARCHIVE CENTER
 06/09/1998 - 05/31/2002 FY01: \$0 Total: \$210,000
Prin. Invest.: C MITCHELL
Tech. Officer: GSFC/W TRUSZOKWSKI
CASE Category: 22 - COMPUTER SCIENCE

NAG 5 7450 **GEORGIA INST OF TECHNOLOGY** **3898**
 RELATIONSHIPS BETWEEN INTERSTELLAR AND INTERPLANET ARY
 GRAINS
 07/02/1998 - 06/30/2001 FY01: \$0 Total: \$86,500
Prin. Invest.: D P BRADLEY
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 7471 **GEORGIA INST OF TECHNOLOGY** **3899**
 POTENTIAL VORTICITY-BASED DIAGNOSES OF SEASONAL AN D INTRA-
 SEASONALVARIABILITY IN AN ASSIMILAT
 06/08/1998 - 03/31/2001 FY01: \$0 Total: \$144,300
Prin. Invest.: R X BLACK
Tech. Officer: GSFC/S SCHUBERG
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7519 **GEORGIA INST OF TECHNOLOGY** **3900**
 APPRENTICE - INCREMENTAL PASS AUTOMATION INITIAL P ROTOTYPE
 ANDEVALUATION WITH TRACE
 06/16/1998 - 05/31/2002 FY01: \$0 Total: \$90,000
Prin. Invest.: C MITCHELL
Tech. Officer: GSFC/J CATENA
CASE Category: 22 - COMPUTER SCIENCE

NAG 5 7682 **GEORGIA INST OF TECHNOLOGY** **3901**
 GLOBAL DISTRIBUTION OF OF TROPOSPHERIC AEROSOLS:A 3-D MODEL
 ANALYSIS OF SATELITE DATA.
 09/09/1998 - 08/31/2002 FY01: \$125,000 Total: \$287,506
Prin. Invest.: M CHIN
Tech. Officer: GSFC/M I MISHCHENKO
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 8698 **GEORGIA INST OF TECHNOLOGY** **3902**
 QUANTIFYING THE RELATIONSHIP BETWEEN REMOTELY- SENSED &
 MODELED SOIL MOISTURE
 09/14/1999 - 06/30/2002 FY01: \$23,034 Total: \$142,030
Prin. Invest.: C D PETERS-LIDARD
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8880 **GEORGIA INST OF TECHNOLOGY** **3903**
 PROJECT TO INTERFACE CLIMATE MODELING ON GLOBAL & REGIONAL
 SCALES WITH EARTH OBSERVING SYSTEM (EOS)
 11/24/1999 - 12/31/2001 FY01: \$0 Total: \$677,654
Prin. Invest.: R E DICKINSON
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8891 **GEORGIA INST OF TECHNOLOGY** **3904**
 PARTICIPATION OF THE HNO3 CIMS INSTRUMENT IN THE SAGE III OZONE
 LOSS ANDVALIDATIONEXPERIMENT (SOLV
 12/06/1999 - 11/30/2000 FY01: \$0 Total: \$66,500
Prin. Invest.: F EISELE
Tech. Officer: GSFC/P DECOLA
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8895 **GEORGIA INST OF TECHNOLOGY** **3905**
 USING UARS MLS TO INVESTIGATE THE IMPACTS OF TROPO SPHERE
 CONVECTION & PLANETARY-SCALE & SYMPTIC WA
 01/12/2000 - 11/30/2000 FY01: \$0 Total: \$132,725
Prin. Invest.: D FU
Tech. Officer: GSFC/A DOUGLASS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 8931 **GEORGIA INST OF TECHNOLOGY** **3906**
 LABORATORY INVESTIGATIONS OF STRATOSPHERIC & UPPER TROPOS-
 PHERICCHEMISTRY
 01/19/2000 - 12/31/2001 FY01: \$174,567 Total: \$340,826
Prin. Invest.: P H WINE
Tech. Officer: GSFC/M KURYLO
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9868 **GEORGIA INST OF TECHNOLOGY** **3907**
 THE YANGTZE DELTA OF CHINA AS AN ENVOLVING METRO- AGRO-PLEX
 (MAP)
 08/09/2000 - 10/31/2001 FY01: \$0 Total: \$250,000
Prin. Invest.: W L CHAMEIDES
Tech. Officer: GSFC/A J TUYAHOV
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10209 **GEORGIA INST OF TECHNOLOGY** **3908**
 IMPROVING THE REPRESENTATION OF LAND IN CLIMATE MODELS BY
 APPLICATION OF EOS OBSERVATIONS
 12/29/2000 - 12/31/2001 FY01: \$500,000 Total: \$500,000
Prin. Invest.: R DICKINSON
Tech. Officer: GSFC/Y SUD
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 10374 **GEORGIA INST OF TECHNOLOGY** **3909**
 DIAGNOSTIC STUDIES OF SHORT-TERM CLIMATE VARIABILI TY IN NASA/
 GSFCGENERAL CIRCULATION MODELS
 03/17/2001 - 03/31/2002 FY01: \$85,000 Total: \$85,000
Prin. Invest.: R X BLACK
Tech. Officer: GSFC/S SCHUBERT
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 10632 **GEORGIA INST OF TECHNOLOGY** **3910**
 COMPARISON OF INTERSTELLER AND INTERPLANETARY DUST
 03/17/2001 - 06/30/2002 FY01: \$50,000 Total: \$50,000
Prin. Invest.: J BRADLEY
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 11063 **GEORGIA INST OF TECHNOLOGY** **3911**
 VARIABILITY OF AEROSOL DISTRIBUTION AND OPTICAL PROPERTIES
 SIMULATED BY GOCART MODEL USING TOMS
 06/26/2001 - 06/30/2002 FY01: \$61,170 Total: \$61,170
Prin. Invest.: P GINOUX
Tech. Officer: GSFC/R MCPETERS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 8 1245 **GEORGIA INST OF TECHNOLOGY** **3912**
 EFFECT OF GRAVITY ON THE EVOLUTION OF SPATIAL ARRANGEMENT OF
 FEATURES IN MICROSTRUCTURES
 05/10/1996 - 05/09/2001 FY01: \$0 Total: \$320,000
Prin. Invest.: A M GOKHALE
Tech. Officer: MSFC/P DOTY, MSFC/R POWER
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 8 1597 **GEORGIA INST OF TECHNOLOGY** **3913**
 R/S CONCEPTUAL DESIGN FOR ADVANCED SPACE TRANSPORTATION SYSTEMS
 12/16/1998 – 12/15/2001 FY01: -\$49,150 Total: \$389,850
Prin. Invest.: J R OLDS
Tech. Officer: MSFC/J J HUTT
CASE Category: 41 – AERONAUTICAL ENGR

NAG 8 1638 **GEORGIA INST OF TECHNOLOGY** **3914**
 RESEARCH ENTITLED: "FAULT TOLERANT NONLINEAR ADAPTATIVE FLIGHT CONTROL FOR THE X-33"
 09/24/1999 – 06/30/2002 FY01: \$72,361 Total: \$202,275
Prin. Invest.: A CALISE
Tech. Officer: MSFC/R DABNEY, MSFC/J HANSON
CASE Category: 46 – MECHANICAL ENGR

NAG 8 1713 **GEORGIA INST OF TECHNOLOGY** **3915**
 STUDY OF DEPLOYMENT OPTIONS AND EXPLORATION USES FOR SPACE SOLAR POWER
 03/01/2000 – 11/15/2000 FY01: \$0 Total: \$149,999
Prin. Invest.: J OLDS
Tech. Officer: MSFC/J HOWELL
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 8 1819 **GEORGIA INST OF TECHNOLOGY** **3916**
 PERMEABILITY TESTING OF IMPACTED COATED COMPOSITE LAMINATES
 05/21/2001 – 07/31/2002 FY01: \$68,616 Total: \$68,616
Prin. Invest.: W S JOHNSON
Tech. Officer: MSFC/A NETTLES
CASE Category: 47 – METAL & MATERIALS ENGR

NAS 1 00087 **GEORGIA INST OF TECHNOLOGY** **3917**
 RESEARCH IN ACOUSTICS & NOISE CONTROL FOR AIRCRAFT AND SPACE TRANSPORTATION VEHICLES
 05/01/2000 – 04/30/2005 FY01: \$439,876 Total: \$522,876
Prin. Invest.: K K AHUJA, D E PAREKH, R J ENGLAR
Tech. Officer: LARC/L R CLARK
CASE Category: 41 – AERONAUTICAL ENGR

NAS 1 18938 **GEORGIA INST OF TECHNOLOGY** **3918**
 SAGE III EXPERIMENT SCIENTIFIC SUPPORT/CUNNOLD
 02/20/1990 – 01/31/2005 FY01: \$95,000 Total: \$657,700
Prin. Invest.: D M CUNNOLD
Tech. Officer: LARC/G L MADDREA/L R MCMASTER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 1 99073 **GEORGIA INST OF TECHNOLOGY** **3919**
 R & D OF ELECTROMAGNETIC SYSTEMS
 02/17/1999 – 02/16/2004 FY01: \$795,410 Total: \$1,491,656
Prin. Invest.: G GIMMESTAD
Tech. Officer: LARC/S D HARRAH
CASE Category: 45 – ELECTRICAL ENGR

NAS 3 00179 **GEORGIA INST OF TECHNOLOGY** **3920**
 SYSTEM STUDIES FOR NASA AEROSPACE PROPULSION AND AIRFRAME TECHNOLOGY
 09/28/2000 – 09/27/2005 FY01: \$0 Total: \$50,000
Prin. Invest.: R E MCKINLEY, JR, J TAI, B ROTH
Tech. Officer: LARC/C M MEYERS, LARC/M T TONG
CASE Category: 41 – AERONAUTICAL ENGR

NAS 5 00171 **GEORGIA INST OF TECHNOLOGY** **3921**
 OZONE MONITORING INSTRUMENT (OMI) SCIENCE TEAM.
 06/07/2000 – 10/31/2004 FY01: \$100,015 Total: \$170,015
Prin. Invest.: D M CUNNOLD
Tech. Officer: GSFC/J C RIVERA
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS10 01025 **GEORGIA INST OF TECHNOLOGY** **3922**
 OPERATIONS/MAINT SOUTHEAST REGIONAL TECH TRANSFER CENTER
 01/31/2001 – 01/31/2003 FY01: \$1,200,000 Total: \$1,200,000
Prin. Invest.: D BRIDGES, J MILLS, B HILL
Tech. Officer: KSC/C GRIFFIN, KSC/D MAKUFKA
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NCA 1 163 **GEORGIA INST OF TECHNOLOGY** **3923**
 AGATE – HUMAN FACTORS AND SYSTEMS INTERFACE
 01/28/1998 – 12/31/1999 FY01: -\$50 Total: \$49,950
Prin. Invest.: N AVAILABLE
Tech. Officer: LARC/N AVAILABLE
CASE Category: 69 – PSYCHOLOGY, OTHER

NCC 1 296 **GEORGIA INST OF TECHNOLOGY** **3924**
 MEASUREMENTS OF NO AND NO2 OVER THE TROPICAL PACIFIC
 04/28/1998 – 05/31/2001 FY01: \$0 Total: \$550,217
Prin. Invest.: S T SANDHOLM
Tech. Officer: LARC/J M HOELL, JR., LARC/R J BENDURA
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 1 301 **GEORGIA INST OF TECHNOLOGY** **3925**
 MEASUREMENT OF OH, H2SO4, MSA, NH3, AND DMSO ABOARD THE P-3B AIRCRAFT
 05/27/1998 – 05/31/2001 FY01: \$0 Total: \$574,683
Prin. Invest.: F L EISELE, R L MAULDIN
Tech. Officer: LARC/J L ROPER, LARC/R J BENDURA
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 1 306 **GEORGIA INST OF TECHNOLOGY** **3926**
 TROPOSPHERIC DIAGNOSTIC MODELING STUDIES OF PEM-TROPICS B FIELD DATA: INVESTIGATION OF THE
 07/10/1998 – 11/23/2001 FY01: \$124,246 Total: \$509,326
Prin. Invest.: D D DAVIS, G CHEN
Tech. Officer: LARC/J M HOELL, JR., LARC/R J BENDURA
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 1 317 **GEORGIA INST OF TECHNOLOGY** **3927**
 MODELING AND DATA ANALYSIS OF PEM-TROPICS B OBSERVATIONS
 08/17/1998 – 07/31/2001 FY01: \$0 Total: \$391,852
Prin. Invest.: S C LIU
Tech. Officer: LARC/J M HOELL, LARC/R J BENDURA
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 1 375 **GEORGIA INST OF TECHNOLOGY** **3928**
 DOWNSIZING OF GATECH'S AIRBORNE FLUORESCENCE (AFS) FOR THE MEASUREMENT OF NITROGENOXIDES
 02/10/2000 – 05/18/2001 FY01: \$1 Total: \$247,809
Prin. Invest.: H W GUAN, S T SANDHOLM
Tech. Officer: LARC/J L RAPER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 1 401 **GEORGIA INST OF TECHNOLOGY** **3929**
 HUMAN FACTORS CONSIDERATIONS FOR SAFE RECOVERY FROM FAULTS
 IN FLIGHT CONTROL SYSTEMS
 06/08/2000 – 06/14/2003 FY01: \$92,006 Total: \$157,006
Prin. Invest.: A R PRITCHETT
Tech. Officer: LARC/C M BELCASTRO
CASE Category: 49 – ENGINEERING, OTHER

NCC 1 411 **GEORGIA INST OF TECHNOLOGY** **3930**
 RAPID MEASUREMENTS OF AEROSOL IONIC COMPOSITION AND 3–10 NM
 PARTICLE SIZE DISTRIBUTIONS ON THE NASA
 09/14/2000 – 09/14/2002 FY01: \$172,669 Total: \$338,672
Prin. Invest.: R J WEBER
Tech. Officer: LARC/J L RAPER, SR
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 1 417 **GEORGIA INST OF TECHNOLOGY** **3931**
 MEASUREMENTS OF NO AND NO₂ FROM THE ASIAN OUTFLOW INTO THE
 WESTERN PACIFIC
 09/27/2000 – 09/30/2002 FY01: \$167,835 Total: \$361,919
Prin. Invest.: S T SANDHOLM
Tech. Officer: LARC/J L RAPER, SR
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 1 421 **GEORGIA INST OF TECHNOLOGY** **3932**
 MEASUREMENT OF OH, H₂SO₄, MSA, AND HN₃ ABOARD THE P-3B
 AIRCRAFT
 09/26/2000 – 12/31/2002 FY01: \$158,101 Total: \$287,859
Prin. Invest.: F L EISELE
Tech. Officer: LARC/J L RAPER, SR
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 1 01024 **GEORGIA INST OF TECHNOLOGY** **3933**
 TROPOSPH MODELG STUDIES TRACE-P FIELD DATA: INVEST HOX/NOX/O3
 PHOTOCHEM SYS COUPL'G TO SULFUR/AEROSO
 01/29/2001 – 11/30/2003 FY01: \$149,710 Total: \$149,710
Prin. Invest.: D D DAVIS
Tech. Officer: LARC/J L RAPER, SR
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 945 **GEORGIA INST OF TECHNOLOGY** **3934**
 ROTORCRAFT CENTERS OF EXCELLENCE
 05/03/1996 – 02/28/2001 FY01: \$0 Total: \$5,830,069
Prin. Invest.: D C SCHRAGE, D A PETERS, K B BOTA
Tech. Officer: ARC/Y H YU, ARC/J M DAVIS
CASE Category: 41 – AERONAUTICAL ENGR

NCC 2 961 **GEORGIA INST OF TECHNOLOGY** **3935**
 MODELING, TRAINING, AND AIDING IN AEROSPACE SYSTEM S
 07/18/1996 – 05/31/2002 FY01: \$0 Total: \$571,333
Prin. Invest.: C M MITCHELL
Tech. Officer: ARC/E A PALMER, ARC/K CORKER
CASE Category: 41 – AERONAUTICAL ENGR

NCC 2 1124 **GEORGIA INST OF TECHNOLOGY** **3936**
 HOW PROFESSIONAL PILOTS PERCEIVE & RESPOND TO AMIB GUOUS &
 UNCERTAIN DECISION SITUATIONS
 07/01/1999 – 04/30/2002 FY01: \$120,045 Total: \$308,661
Prin. Invest.: U M FISCHER
Tech. Officer: ARC/J M ORASANU
CASE Category: 69 – PSYCHOLOGY, OTHER

NCC 2 1193 **GEORGIA INST OF TECHNOLOGY** **3937**
 A PROBABILISTIC APPROACH TO TECHNOLOGY, IDENTIFICATION, EVALUATION &
 SELECTION FOR LOW COST SPACE T
 08/24/2000 – 09/14/2001 FY01: \$130,381 Total: \$178,381
Prin. Invest.: D N MAVRIS
Tech. Officer: ARC/M E LIVINGSTON
CASE Category: 41 – AERONAUTICAL ENGR

NCC 2 5332 **GEORGIA INST OF TECHNOLOGY** **3938**
 EVALUATION OF ADVANCED THERMAL PROTECTION TECHNIQUES FOR
 FUTURE REUSABLE LAUNCH VEHICLES
 07/20/1999 – 06/30/2001 FY01: \$0 Total: \$50,752
Prin. Invest.: R OLDS
Tech. Officer: ARC/P KOLOZIEJ, ARC/D J RASKY
CASE Category: 41 – AERONAUTICAL ENGR

NCC 3 711 **GEORGIA INST OF TECHNOLOGY** **3939**
 DAMAGE MECHANICS MODELING FOR LIFE PREDICTION OF ULTRA HIGH
 TEMPERATURE POLYMER MATRIX COMPOSITES
 06/07/1999 – 12/31/2001 FY01: \$79,973 Total: \$279,974
Prin. Invest.: D TALREJA
Tech. Officer: GRC/J R ELLIS
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 900 **GEORGIA INST OF TECHNOLOGY** **3940**
 MICROMACHINED HIGH FREQUENCY CIRCUITS FOR SUBMILLI METER-
 WAVE SENSORS
 06/28/2001 – 06/24/2002 FY01: \$39,918 Total: \$39,918
Prin. Invest.: D PAPAPOLYMEROU
Tech. Officer: GRC/G E PONCHAK
CASE Category: 45 – ELECTRICAL ENGR

NGT 1 52132 **GEORGIA INST OF TECHNOLOGY** **3941**
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
 06/06/1996 – 08/31/2001 FY01: \$0 Total: \$99,000
Prin. Invest.: A GLEZER, A GLEZER (ADVISOR)
Tech. Officer: LARC/R D JOSLIN
CASE Category: 46 – MECHANICAL ENGR

NGT 1 52162 **GEORGIA INST OF TECHNOLOGY** **3942**
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
 06/11/1997 – 06/30/2001 FY01: \$0 Total: \$66,001
Prin. Invest.: B V GIBBENS
Tech. Officer: LARC/J E GARDNER
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 1 52163 **GEORGIA INST OF TECHNOLOGY** **3943**
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
 09/03/1997 – 09/02/2001 FY01: \$12,000 Total: \$88,001
Prin. Invest.: J R OLDS, D W WAY
Tech. Officer: LARC/R A LEPSCH, LARC/L R ROWELL
CASE Category: 41 – AERONAUTICAL ENGR

NGT 1 52167 **GEORGIA INST OF TECHNOLOGY** **3944**
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
 12/01/1997 – 11/30/2000 FY01: -\$18 Total: \$65,983
Prin. Invest.: K A CUNEFARE
Tech. Officer: HQ/P BACON
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 1 52170 **GEORGIA INST OF TECHNOLOGY** **3945**
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
 04/15/1997 – 01/01/2001 FY01: \$0 Total: \$66,001
Prin. Invest.: F MISTREE
Tech. Officer: LARC/T A ZANG
CASE Category: 46 – MECHANICAL ENGR

NGT 1 52225 **GEORGIA INST OF TECHNOLOGY** **3946**
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) YEAR 1
 10/28/1999 – 09/30/2001 FY01: \$22,000 Total: \$42,400
Prin. Invest.: W H REES
Tech. Officer: LARC/E WEISER, LARC/T ST. CLARA
CASE Category: 43 – CHEMICAL ENGR

NGT 2 52253 **GEORGIA INST OF TECHNOLOGY** **3947**
 THERMAL ANALYSIS & TPS DESIGN OF ABLE/LEAD HPERSON IC VEHICLES
 07/20/1999 – 08/31/2000 FY01: -\$24,511 Total: \$19,489
Prin. Invest.: S M RUFFIN, V S MCKAY
Tech. Officer: ARC/P F WERCINSKI, ARC/T C TAM
CASE Category: 41 – AERONAUTICAL ENGR

NGT 2 52255 **GEORGIA INST OF TECHNOLOGY** **3948**
 IMPLEMENTATION OF INTELLIGNET FLIGHT CONTROL ON TH E NASA
 STONE SOUP SIMULATOR
 07/20/1999 – 01/31/2000 FY01: -\$7,586 Total: \$14,414
Prin. Invest.: A CALIS
Tech. Officer: ARC/J KANESHIGE, ARC/S LAU
CASE Category: 41 – AERONAUTICAL ENGR

NGT 2 52266 **GEORGIA INST OF TECHNOLOGY** **3949**
 FULLY AUTOMATED CARTESIAN GRID CFD APPLICATIONS FO R MDO IN
 HIGH – SPEED FLOWS
 07/17/2000 – 08/14/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: S M RUFFIN
Tech. Officer: ARC/M J AHOSMIS
CASE Category: 41 – AERONAUTICAL ENGR

NGT 2 52274 **GEORGIA INST OF TECHNOLOGY** **3950**
 CENTERS OF EXCELLENCE IN ROTORCRAFT TECHNOLOGY
 02/12/2001 – 04/30/2002 FY01: \$780,000 Total: \$780,000
Prin. Invest.: D P SCHRAGE, D A PETERS
Tech. Officer: ARC/Y H YU, ARC/AWKERR
CASE Category: 41 – AERONAUTICAL ENGR

NGT 3 52329 **GEORGIA INST OF TECHNOLOGY** **3951**
 GRADUATE STUDENT RESEARCHERS PROGRAM
 06/10/1997 – 05/30/2001 FY01: -\$10,867 Total: \$55,133
Prin. Invest.: E W ZEGURA
Tech. Officer: GRC/F J MONTEGANI
CASE Category: 22 – COMPUTER SCIENCE

NGT 3 52334 **GEORGIA INST OF TECHNOLOGY** **3952**
 GRADUATE STUDENT RESEARCHERS PROGRAM
 06/11/1997 – 08/31/2000 FY01: -\$27,041 Total: \$38,959
Prin. Invest.: G T ZHOU
Tech. Officer: GRC/F J MONTEGANI
CASE Category: 49 – ENGINEERING, OTHER

NGT 3 52338 **GEORGIA INST OF TECHNOLOGY** **3953**
 GRADUATE STUDENT RESEARCHERS PROGRAM GRADUATE STUDENT
 RESEARCHERS PROGRAM
 09/11/1997 – 08/03/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: M LIU
Tech. Officer: GRC/F J MONTEGANI
CASE Category: 49 – ENGINEERING, OTHER

NGT 3 52371 **GEORGIA INST OF TECHNOLOGY** **3954**
 GRADUATE STUDENT RESEARCHERS PROGRAM GRADUATE STUDENT
 RESEARCHERS PROGRAM
 06/26/2000 – 08/31/2002 FY01: \$9,600 Total: \$31,600
Prin. Invest.: J H GINSBERG
Tech. Officer: GRC/F J MONTEGANI
CASE Category: 46 – MECHANICAL ENGR

NGT 4 52405 **GEORGIA INST OF TECHNOLOGY** **3955**
 GRADUATE STUDENT RESEARCHERS PROGRAM ROBUST LINEAR &
 NONLINEAR CONTROL FOR JET ENGINE
 06/25/1997 – 07/01/2000 FY01: -\$15 Total: \$65,845
Prin. Invest.: J CORRADO, W HADDAD
Tech. Officer: DFRC/K K GUPTA
CASE Category: 41 – AERONAUTICAL ENGR

NGT 5 30069 **GEORGIA INST OF TECHNOLOGY** **3956**
 DEVELOPMENT OF A SELECT ION ATMOSPHERIC PRESSURE C S SPEC-
 TROMETRY TECHNIQUE FOR THE MEASUREMENT OF T
 09/10/1997 – 08/31/2000 FY01: \$0 Total: \$65,950
Prin. Invest.: D WINE
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 30384 **GEORGIA INST OF TECHNOLOGY** **3957**
 DEVELOPMENT OF A CHEMICAL IONIZATION MASS SPECTROM ETRY
 TECHNIQUE FORMEASURINGATMOSPHERIC PERNI
 08/13/2001 – 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: L HUEY
Tech. Officer: GSFC/M WEI
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 40023 **GEORGIA INST OF TECHNOLOGY** **3958**
 NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
 02/03/1997 – 01/31/2001 FY01: -\$205,352 Total: \$1,539,399
Prin. Invest.: E ARMANIOS
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 40116 **GEORGIA INST OF TECHNOLOGY** **3959**
 GEORGIA SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
 03/08/2001 – 02/28/2002 FY01: \$680,352 Total: \$680,352
Prin. Invest.: E ARMANIOS
Tech. Officer: GSFC/D D DETROYE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 50284 **GEORGIA INST OF TECHNOLOGY** **3960**
 EXPLOITING TEMPORAL UNCERTAINTY IN SIMULATION MODELS
 06/23/2000 – 07/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: R FUJIMOTO
Tech. Officer: GSFC/L SMITH
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 50330 **GEORGIA INST OF TECHNOLOGY** **3961**
 THE EFFECTS ON LAND SURFACE HETEROGENETIES ON AERO SOL
 CONCENTRATIONS IN CHINA & THEIR IMPACT ON REG
 08/17/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: W L CHAMEIDES
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 50363 **GEORGIA INST OF TECHNOLOGY** **3962**
 KINETIC FRICTION ON NON-COALESCING AND NON-WETTING DROPS/
 STUDENT: MARIA-ISABEL CARNASCIALI
 06/12/2001 - 07/31/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: P NEITZEL
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 8 52854 **GEORGIA INST OF TECHNOLOGY** **3963**
 DEVELOPMENT OF A TOOL FOR CONCEPTUAL DESIGN OF ROCKET BASED
 COMBINED CYCLE PROPULSION SYSTEMS
 07/21/1998 - 08/14/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: J R OLDS
Tech. Officer: MSFC/J F DOWDY
CASE Category: 41 - AERONAUTICAL ENGR

NGT 8 52881 **GEORGIA INST OF TECHNOLOGY** **3964**
 QUANTITATIVE CHARACTERIZATION OF GRAVITATIONAL EFFECTS ON THE
 EVOLUTION OF MICROSTRUCTURE.
 09/14/1999 - 03/14/2002 FY01: \$0 Total: \$44,000
Prin. Invest.: A GOKHALE
Tech. Officer: MSFC/J DOWDY
CASE Category: 47 - METAL & MATERIALS ENGR

NGT 8 52887 **GEORGIA INST OF TECHNOLOGY** **3965**
 DEV OF PREDICTIVE MODELS OF ADVANCED PROPULSION CONCEPTS
 FOR LOW COST SPACE TRANSPORTATION
 05/24/2000 - 07/31/2003 FY01: \$22,000 Total: \$44,000
Prin. Invest.: J SEITZMAN
Tech. Officer: MSFC/S NASH-STEVENSON
CASE Category: 49 - ENGINEERING, OTHER

NGT 8 52898 **GEORGIA INST OF TECHNOLOGY** **3966**
 A CAPABILITY TO GENERATE PHYSICS-BASED MASS ESTIMATING RELA-
 TIONSHIPS FOR CONCEPTUAL SPACE VEHICLE
 05/25/2001 - 06/30/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: J OLDS
Tech. Officer: MSFC/S NASH-STEVENSON
CASE Category: 13 - PHYSICS

NGT13 52742 **GEORGIA INST OF TECHNOLOGY** **3967**
 RAPID MEASUREMENTS OF AEROSOL BULK COMPOSITION USING A
 PARTICLE INTO LIQUID SAMPLING SYSTEM
 07/12/2000 - 07/31/2001 FY01: \$22,000 Total: \$44,000
Prin. Invest.: K MAXWELL, R WEBER
Tech. Officer: SSC/R TRAVIS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT13 52750 **GEORGIA INST OF TECHNOLOGY** **3968**
 DYNAMIC FLUID FLOW SIMULATION AND VALIDATION OF E- 1 AND E-2
 LIQUID OXYGEN HYDROGEN MODELS
 06/18/2001 - 06/30/2003 FY01: \$22,000 Total: \$22,000
Prin. Invest.: R RIVERA
Tech. Officer: SSC/R HOLLAND
CASE Category: 49 - ENGINEERING, OTHER

NCC 5 254 **GEORGIA SOUTHERN UNIV** **3969**
 "PHYSICAL PROPERTIES OF PLANETARY MOLECULES", GSFC CONTROL
 NUMBER 5-3326
 10/30/1997 - 10/31/2000 FY01: \$0 Total: \$83,883
Prin. Invest.: R NELSON, NONE
Tech. Officer: GSFC/J ALLEN
CASE Category: 12 - CHEMISTRY

NAG 5 4950 **GEORGIA STATE UNIV** **3970**
 WAVELENGTH-TUNABLE NOVEL SEMICONDUCTOR FIR DETECTO
 RESEARCH
 06/23/1997 - 12/31/2001 FY01: \$0 Total: \$158,000
Prin. Invest.: D PERERA
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 - ASTRONOMY

NAG 5 6904 **GEORGIA STATE UNIV** **3971**
 CROSS-CORRELATION ANALYSIS OF UV PROFILE VARIATIONS AND
 NONRADIAL PULSATIONS IN BESTARS
 02/06/1998 - 12/31/2001 FY01: \$0 Total: \$65,300
Prin. Invest.: D GIES
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 7752 **GEORGIA STATE UNIV** **3972**
 PHOTOIONIZATION AND RELATED DIELECTRONIC/RADIATIVE RECOMBINA-
 TION ANELASTIC SCATTERING CROSS SE
 11/25/1998 - 12/31/2001 FY01: \$50,000 Total: \$146,100
Prin. Invest.: S T MANSON
Tech. Officer: GSFC/H HASAN
CASE Category: 11 - ASTRONOMY

NAG 2 1416 **MEDICAL COLLEGE OF GEORGIA** **3973**
 CELLULAR & MOLECULAR MECHANISMS MEDIATING RAPID RE SEALING OF
 GRAVITY-INDUCED PLASMA MEMBRANE DISRUPT
 07/12/2000 - 06/30/2002 FY01: \$301,455 Total: \$457,166
Prin. Invest.: P L MCNEIL
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 5 6602 **MOREHOUSE COLLEGE** **3974**
 AN INFRARED STUDY OF ORTHO AND PARA HYDROGEN ON INTER-
 TELLAR GRAINS
 11/13/1997 - 10/31/2000 FY01: \$0 Total: \$221,667
Prin. Invest.: J KING, JR.
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 - ASTRONOMY

NAG 8 1492 **MOREHOUSE COLLEGE** **3975**
 INSPIRING CAREERS IN ENGINEERING, MATHEMATICS, AND SCIENCE
 (ICEMS)
 06/04/1998 - 05/18/2001 FY01: -\$19,864 Total: \$277,547
Prin. Invest.: E MCDONALD
Tech. Officer: MSFC/A BEAM
CASE Category: 21 - MATHEMATICS

NAG 8 1636 **MOREHOUSE COLLEGE** **3976**
 "USING THE NASA ROTATING BIOREACTOR TO STUDY ROLE OF NITRIC
 OXIDE IN BREAST-INDUCED ANGIOGENESIS"
 09/30/1999 - 06/30/2002 FY01: \$72,811 Total: \$221,635
Prin. Invest.: G L SANFORD
Tech. Officer: MSFC/R RICHMOND
CASE Category: 61 - PSYCHOLOGY BIOLOGY

<p>NAG 8 1711 MOREHOUSE COLLEGE 3977 STRATEGIC PREPAREDNESS ADVANCING CAREERS IN ENGINEERING/ SCIENCES (SPACE) 03/29/2000 – 03/28/2003 FY01: \$1,539,013 Total: \$3,040,303 <i>Prin. Invest.:</i> J KING <i>Tech. Officer:</i> MSFC/W LOVE <i>CASE Category:</i> 49 – ENGINEERING, OTHER</p>	<p>NAG 9 971 MOREHOUSE SCHOOL MED 3985 EFFECT OF MICRO GRAV ON DISPO & BIOTRANS OF THREAPEUTIC AGENTS ... 09/25/1997 – 04/30/2000 FY01: \$0 Total: \$388,518 <i>Prin. Invest.:</i> D POTTER <i>Tech. Officer:</i> JSC/L PUTCHA <i>CASE Category:</i> 42 – ASTRONAUTICAL ENGR</p>
<p>NAG 9 964 MOREHOUSE COLLEGE 3978 SIMULATED MOCROGRAVITY ... 09/25/1997 – 12/31/2001 FY01: \$0 Total: \$300,000 <i>Prin. Invest.:</i> K DUTT <i>Tech. Officer:</i> JSC/K KRISHEN <i>CASE Category:</i> 56 – MEDICL</p>	<p>NAG 9 1164 MOREHOUSE SCHOOL MED 3986 TISSUE ENGINEERING OF HUMAN RETINA IN NASA BIOREATOR FOR TRANSPLANT 10/01/1999 – 09/30/2001 FY01: \$31,552 Total: \$199,999 <i>Prin. Invest.:</i> K DUTT <i>Tech. Officer:</i> JSC/C SAMS <i>CASE Category:</i> 59 – LIFE SCIENCE, OTHER</p>
<p>NAG 2 1215 MOREHOUSE SCHOOL MED 3979 PRE–METARSAL DIFFERENTIATION & MINERALIZATION 05/04/1998 – 06/30/2001 FY01: \$0 Total: \$100,789 <i>Prin. Invest.:</i> B J KLEMENT <i>Tech. Officer:</i> ARC/M M AVERNER, ARC/R D MACELROY <i>CASE Category:</i> 51 – BIOLOGY (EXCLUDING ENVIR)</p>	<p>NCC 2 1262 MOREHOUSE SCHOOL MED 3987 JOINT RESEARCH ON SPACE-RELATED BIOLOGICAL ISSUES 05/07/2001 – 04/30/2002 FY01: \$150,000 Total: \$150,000 <i>Prin. Invest.:</i> G SONNENFELD, M THIERRY–PALMER <i>Tech. Officer:</i> ARC/S M HING, ARC/O SANTOS <i>CASE Category:</i> 51 – BIOLOGY (EXCLUDING ENVIR)</p>
<p>NAG 2 1381 MOREHOUSE SCHOOL MED 3980 BONE & CALCIUM METABOLISM IN DAHL SALT SENSITIVE & SALT RESES- TANT RATS WITH UNLOADED HINDLIMBS 09/03/1999 – 08/31/2002 FY01: \$37,901 Total: \$129,499 <i>Prin. Invest.:</i> M THIERRY–PALMER <i>Tech. Officer:</i> ARC/B J COLLINS <i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER</p>	<p>NCC 9 53 MOREHOUSE SCHOOL MED 3988 DEVELOP MINORITY UNIV SPACE MEDICINE CENTER 12/18/1997 – 01/01/2001 FY01: \$0 Total: \$3,129,072 <i>Prin. Invest.:</i> M THIERRY–PALMER <i>Tech. Officer:</i> JSC/L ARMENDARIZ <i>CASE Category:</i> 56 – MEDICL</p>
<p>NAG 2 1448 MOREHOUSE SCHOOL MED 3981 CHONDROCYTE DIFFERENTIATION & MATURATION IN HYPERG RAVITY 09/29/2000 – 09/30/2002 FY01: \$191,606 Total: \$191,606 <i>Prin. Invest.:</i> B J KLEMENT <i>Tech. Officer:</i> ARC/C E WADE, ARC/B J COLLINS <i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER</p>	<p>NCC 9 112 MOREHOUSE SCHOOL MED 3989 SPACE MEDICINE 09/26/2000 – 06/30/2005 FY01: \$904,658 Total: \$1,200,000 <i>Prin. Invest.:</i> M THIERRY–PALMER <i>Tech. Officer:</i> JSC/C SAMS, JSC/G HENDERSEN <i>CASE Category:</i> 56 – MEDICL</p>
<p>NAG 2 6029 MOREHOUSE SCHOOL MED 3982 THE NASASPACE BIOLOGY RESEARCH ASSOCIATE PROGRAM F OR THE 21ST CENTRUY 03/01/1999 – 12/31/1999 FY01: –\$1,629 Total: \$46,494 <i>Prin. Invest.:</i> G SONNENFELD <i>Tech. Officer:</i> ARC/B LUNA, ARC/R GRYNES <i>CASE Category:</i> 59 – LIFE SCIENCE, OTHER</p>	<p>NGT 2 52239 MOREHOUSE SCHOOL MED 3990 MINOTIRY COMPONENT FOR THE SPACE BIOLOGY RESEARCH ASSOCI- ATES PROGRAM 02/26/1998 – 12/31/1999 FY01: \$0 Total: \$149,394 <i>Prin. Invest.:</i> G L SANFORD <i>Tech. Officer:</i> ARC/B LUNA, ARC/R A GRYMES <i>CASE Category:</i> 59 – LIFE SCIENCE, OTHER</p>
<p>NAG 3 2611 MOREHOUSE SCHOOL MED 3983 GRAVITATIONAL EFFECTS ON NUTRIENT DIFFUSION THROUGH H CARTI- LAGE MATRIX 05/22/2001 – 07/31/2005 FY01: \$30,000 Total: \$30,000 <i>Prin. Invest.:</i> D J KLEMENT <i>Tech. Officer:</i> GRC/D W GRIFFIN <i>CASE Category:</i> 49 – ENGINEERING, OTHER</p>	<p>NAG 5 9157 PAINÉ COLLEGE 3991 PRE–COLLEGE ENRICHMENT PROGRAM IN MATHEMATICS SCIENCE, ENGI- NEERING AND TECHNOLOGY 03/03/2000 – 02/28/2002 FY01: \$100,000 Total: \$200,000 <i>Prin. Invest.:</i> R KESSLER <i>Tech. Officer:</i> GSFC/M STOUTSENBERGER <i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER</p>
<p>NAG 9 963 MOREHOUSE SCHOOL MED 3984 GRAVITY–INDUCED CHANGES ON THE STERIDOGENSIS ... 09/25/1997 – 09/30/2001 FY01: \$0 Total: \$299,966 <i>Prin. Invest.:</i> R SRIDARAN <i>Tech. Officer:</i> JSC/K KRISHEN <i>CASE Category:</i> 56 – MEDICL</p>	<p>NAG 3 2241 SAVANNAH STATE UNIV 3992 RENEWABLE ENERGY SCADE/TRAINING USING ACTS RENEWABLE ENERGY SCADE/TRAINING USING ACTS 03/17/1999 – 10/29/2001 FY01: \$0 Total: \$212,086 <i>Prin. Invest.:</i> D KALU <i>Tech. Officer:</i> GRC/R J ACOSTA <i>CASE Category:</i> 49 – ENGINEERING, OTHER</p>

NAG10 266 SAVANNAH STATE UNIV 3993
 HIGH SCHOOL/HIGH TECH PROGRAM A PARTNERSHIP OF SSU WITH THE
 GEORGIA COMMITTEE ON EMPLOYMENT OF PEOP
 09/01/1999 - 08/31/2001 FY01: \$74,971 Total: \$199,942
Prin. Invest.: D SAJWAN
Tech. Officer: KSC/R J MCKINNEY
CASE Category: 79 - SOCIAL SCIENCE, OTHER

NAG 3 2486 SPELMAN COLLEGE 3994
 DEVELOPMENT OF A PROBE FOR DETERMINING FUEL-TO-OXY GEN
 RATIOS IN AIRPLANE FUEL TANKS
 09/01/2000 - 08/31/2001 FY01: \$0 Total: \$42,000
Prin. Invest.: D CHEN
Tech. Officer: GRC/Q NGUYEN
CASE Category: 41 - AERONAUTICAL ENGNR

NAG 5 9313 SPELMAN COLLEGE 3995
 BUILDING CAPITAL IN THE SCIENCES: TECHNOLOGY-BASED
 INSTRUCTIONAL LABORATORY DESIGN AND DISTANCE EDUC
 03/22/2000 - 04/30/2001 FY01: \$0 Total: \$915,000
Prin. Invest.: S T BOZEMAN
Tech. Officer: GSFC/C PERSON
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1635 SPELMAN COLLEGE 3996
 FIFTH ANNUAL MODEL INST FOR EXCELLANCE CONFERENCE
 09/29/1999 - 11/29/2000 FY01: \$0 Total: \$438,331
Prin. Invest.: E FALCONER
Tech. Officer: MSFC/W LOVE, MSFC/A C BEAM
CASE Category: 49 - ENGINEERING, OTHER

NAG 8 1712 SPELMAN COLLEGE 3997
 WOMEN IN SCIENCES AND ENGINEERING SCHOLARS PROGRAM
 05/15/2000 - 03/31/2003 FY01: \$1,500,000 Total: \$3,000,000
Prin. Invest.: C GILLYARD
Tech. Officer: MSFC/W LOVE
CASE Category: 49 - ENGINEERING, OTHER

NCC 3 758 SPELMAN COLLEGE 3998
 DEVELOPMENT OF A NOVEL MULTI-COMPONENT PROBE FOR C OMBUS-
 TION AND PROPULSION DIAGNOSTICS
 12/30/1999 - 01/31/2002 FY01: \$78,420 Total: \$158,420
Prin. Invest.: D C CHEN
Tech. Officer: GRC/Q NGUYEN
CASE Category: 41 - AERONAUTICAL ENGNR

NCC 8 144 SPELMAN COLLEGE 3999
 INTEGRATED APPROACH TO THE PREDICTION OF HYPER- POLARIZABILTY
 OF ORGANIC CRYSTALS
 08/22/1997 - 06/30/2000 FY01: \$0 Total: \$291,363
Prin. Invest.: B CARDELINO, NONE
Tech. Officer: MSFC/C MOORE
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NCC 8 179 SPELMAN COLLEGE 4000
 MODEL INSTS FOR EXCELLENCE (MIE)
 03/22/1999 - 03/31/2001 FY01: \$198,781 Total: \$4,320,776
Prin. Invest.: E Z FALCONER, A THOMPSON
Tech. Officer: MSFC/W J LOVE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 8 194 SPELMAN COLLEGE 4001
 CRYSTAL ENGINEERING OF NONLINEAR OPTICAL COMPOUNDS NEW
 APPROACH FOR PREDICTING HYPERPOLARIZABILITIES
 09/30/1999 - 09/30/2002 FY01: \$0 Total: \$298,134
Prin. Invest.: O SCRIVEN
Tech. Officer: MSFC/D O FRAIZER
CASE Category: 59 - LIFE SCIENCE, OTHER

NCC 8 227 SPELMAN COLLEGE 4002
 SPLEMAN COLLEGE MODEL INSITUTIONS FOR EXCELLENCE
 06/26/2001 - 06/26/2006 FY01: \$1,508,300 Total: \$1,508,300
Prin. Invest.: E FALCONER
Tech. Officer: MSFC/W LOVE, MSFC/E ORDONEZ
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 3619 UNIV OF GEORGIA 4003
 MULTIWAVELENGTH MODELING OF NOVA ATMOSPHERES
 12/06/1996 - 04/30/2001 FY01: \$0 Total: \$290,329
Prin. Invest.: P HAUSCHILD
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8376 UNIV OF GEORGIA 4004
 THE ROLE OF TRANSLUCENT CLOUDS IN GALACTIC STAR FORMATION
 (L TSA98)
 03/09/1999 - 03/14/2002 FY01: \$0 Total: \$60,000
Prin. Invest.: L MAGNANI
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8425 UNIV OF GEORGIA 4005
 NLTE MODEL ATMOSPHERES FOR VERY LOW MASS STARS (LT SA98)
 05/10/1999 - 05/14/2002 FY01: \$75,462 Total: \$212,115
Prin. Invest.: P H HAUSCHILD
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8469 UNIV OF GEORGIA 4006
 THE EVALUATION OF SNOW WATER EQUIVALENT ACROSS GRA SSLAND
 REGIONS
 05/06/1999 - 06/30/2002 FY01: \$0 Total: \$90,185
Prin. Invest.: T L MOTE
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 8951 UNIV OF GEORGIA 4007
 TEMPERATURE DEPENDENT ELECTRON RECOMBINATION RATES & SPEC-
 TRAL SIGNATURES OF ION REACTIONS RELEVANT TO
 01/21/2000 - 08/31/2002 FY01: \$45,000 Total: \$85,000
Prin. Invest.: N G ADAMS
Tech. Officer: GSFC/D BOGAN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9088 UNIV OF GEORGIA 4008
 ULTRAVIOLET & VISIBLE EMISSION MECHANISMS IN ASTRO PHYSICS
 02/23/2000 - 01/31/2002 FY01: \$75,000 Total: \$143,766
Prin. Invest.: P C STANCIL
Tech. Officer: GSFC/P CRANE
CASE Category: 11 - ASTRONOMY

NAG 5 9222 UNIV OF GEORGIA 4009
 NON-LTE MODEL ATMOSPHERES OF HOT STARS WITH WINDS
 04/05/2000 - 04/14/2002 FY01: \$74,491 Total: \$156,499
Prin. Invest.: P H HAUSCHILDT
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9396 UNIV OF GEORGIA 4010
 FUSE OBSERVATIONS OF GALACTIC AND LMC NOVAE IN OUT BURST - FUSE
 04/05/2000 - 04/30/2001 FY01: \$0 Total: \$9,084
Prin. Invest.: P H HAUSCHILDT
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 10551 UNIV OF GEORGIA 4011
 MODELING OF EXTRASOLAR GIANT PLANETS WITH IMPROVED MOLECULAR LINE OPACITIES, CONTINUUM OPACITIES, CO
 03/09/2001 - 03/14/2002 FY01: \$60,000 Total: \$60,000
Prin. Invest.: P C STANCIL
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 8 1771 UNIV OF GEORGIA 4012
 COMPUTER SIMULATIONS OF CONFINED QUANTUM SYSTEMS IN MICROGRAVITY
 05/01/2001 - 01/31/2004 FY01: \$60,000 Total: \$60,000
Prin. Invest.: D P LANDAU
Tech. Officer: MSFC/D HUBBARD
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 9 1110 UNIV OF GEORGIA 4013
 CONTROLLED GROWTH OF BIOLOGIC AND ABIOTIC CARBONATES AND FEROXIDES
 05/14/1999 - 05/13/2002 FY01: \$20,000 Total: \$30,000
Prin. Invest.: C S ROMANEK
Tech. Officer: JSC/E K GIBSON
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAS 8 97081 UNIV OF GEORGIA 4014
 LAND USE/COVER AND LAND SURFACE TEMPERATURE CHANGE MAPPING & NORMALIZED DIFFERENCE VEGETATION INDEX
 11/04/1996 - 11/03/1999 FY01: \$0 Total: \$158,755
Prin. Invest.: D P LO
Tech. Officer: MSFC/T MILLER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 8 233 UNIV OF GEORGIA 4015
 ONE SHARE OF SYNCHROTRON BEAM TIME FROM THE SOUTH EAST REGIONAL COLLABORATIVE ACCESS TEAM (SER-CAT)
 09/13/2001 - 09/30/2004 FY01: \$375,000 Total: \$375,000
Prin. Invest.: B WANG
Tech. Officer: MSFC/C KUNDROT
CASE Category: 59 - LIFE SCIENCE, OTHER

NGT 5 30017 UNIV OF GEORGIA 4016
 MEASUREMENT OF IN SITU GROWTH RATES OF TWO IMPORTANT PRODUCERS USING FLOW CYTOMETRY AND RNA-TARGETED
 10/23/1996 - 12/31/1999 FY01: -\$130 Total: \$65,870
Prin. Invest.: B BINDER
Tech. Officer: GSFC/G ASRAR
CASE Category: 33 - OCEANOGRAPHY

HAWAII

NAG 1 1850 UNIV OF HAWAII AT MANOA - HONOLULU 4017
 STRESS RECOVERY AND ERROR ESTIMATION FOR 3-D SHELL STRUCTURES
 08/01/1996 - 04/30/2000 FY01: \$0 Total: \$152,211
Prin. Invest.: H R RIGGS
Tech. Officer: LARC/J M HOUSNER
CASE Category: 41 - AERONAUTICAL ENGR

NAG 2 1374 UNIV OF HAWAII AT MANOA - HONOLULU 4018
 THE EVOLUTIONARY ORIGIN & DEPLOYMENT OF HOX & PARA HOX GENES IN METAZOA
 08/12/1999 - 07/31/2002 FY01: \$126,029 Total: \$317,888
Prin. Invest.: M Q MARTINDALE
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 2 1519 UNIV OF HAWAII AT MANOA - HONOLULU 4019
 THE EVOLUTION OF GRAVITY RECEPTION IN THE METAZOA
 08/28/2001 - 08/31/2002 FY01: \$219,272 Total: \$219,272
Prin. Invest.: M Q MARTINDALE
Tech. Officer: ARC/M M AVERNER
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 3 1912 UNIV OF HAWAII AT MANOA - HONOLULU 4020
 GAS-PHASE COMBUSTION SYNTHESIS OF METAL AND CERAMIC NANOPARTICLES
 07/09/1996 - 06/24/2000 FY01: \$0 Total: \$58,761
Prin. Invest.: B H CHAO
Tech. Officer: GRC/S GOKOGLU
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 2663 UNIV OF HAWAII AT MANOA - HONOLULU 4021
 PARTICIPATION IN THE CONSOLIDATED INFRARED SPECTROMETER (CIRS) AS CO-INVESTIGATOR
 07/21/1994 - 07/31/2000 FY01: -\$1,478 Total: \$29,191
Prin. Invest.: T OWEN
Tech. Officer: GSFC/V KUNDE
CASE Category: 11 - ASTRONOMY

NAG 5 3370 UNIV OF HAWAII AT MANOA - HONOLULU 4022
 TWO EXTREMELY RED GALAXIES
 09/06/1996 - 08/14/2001 FY01: \$0 Total: \$578,500
Prin. Invest.: R D JOSEPH
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 22 - COMPUTER SCIENCE

NAG 5 3451 UNIV OF HAWAII AT MANOA - HONOLULU 4023
 ANALYSIS OF VOLCANIC ERUPTIONS AND FIRES USING LANDSAT 7
 10/07/1996 - 06/30/2002 FY01: \$23,500 Total: \$294,131
Prin. Invest.: FLYNN, NONE
Tech. Officer: GSFC/D L WILLIAMS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 3625 UNIV OF HAWAII AT MANOA - HONOLULU 4024
 SPECTRAL STUDIES OF POSSIBLE ASTEROIDAL MATERIALS
 02/12/1997 - 10/31/2000 FY01: -\$4 Total: \$119,096
Prin. Invest.: J F BELL
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 3635 UNIV OF HAWAII AT MANOA - HONOLULU 4025
 REMOTE SENSING AND GEOLOGIC STUDIES OF PLANETARY C
 02/12/1997 - 10/31/2000 FY01: -\$807 Total: \$209,993
Prin. Invest.: B R HAWKE
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 3731 UNIV OF HAWAII AT MANOA - HONOLULU 4026
 ADAPTIVE OPTICS IMAGING OF SOLAR SYSTEM OBJECTS
 03/03/1997 - 12/31/1999 FY01: -\$447 Total: \$131,553
Prin. Invest.: D J RODDIER
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 - ASTRONOMY

NAG 5 3766 UNIV OF HAWAII AT MANOA - HONOLULU 4027
 MINERALOGICAL MAPPING OF THE MOON
 02/20/1997 - 09/30/2001 FY01: \$120,000 Total: \$487,750
Prin. Invest.: P G LUCEY
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 3782 UNIV OF HAWAII AT MANOA - HONOLULU 4028
 SHARING DISCOVERIES IN PLANETARY GEOSCIENCE ON THE -ROM
 02/25/1997 - 06/30/2000 FY01: -\$242 Total: \$192,098
Prin. Invest.: G TAYLOR
Tech. Officer: GSFC/J BOYCE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 3875 UNIV OF HAWAII AT MANOA - HONOLULU 4029
 REGIONAL PLANETARY IMAGE CENTER
 02/10/1997 - 11/14/2001 FY01: \$0 Total: \$197,785
Prin. Invest.: E R HAWKE
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 4024 UNIV OF HAWAII AT MANOA - HONOLULU 4030
 APPLICATIONS OF SARS TO URBAN CLIMATOLOGY: ESTIMATI MOISTURE
 AVAILABILITY FROM RADARSAT IMAGES OF THE
 03/17/1997 - 01/31/2001 FY01: -\$10 Total: \$130,563
Prin. Invest.: B M DOUSSET
Tech. Officer: GSFC/R H THOMAS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 4212 UNIV OF HAWAII AT MANOA - HONOLULU 4031
 ORIGIN OF METEORITE PARENT BODIES AND THE MOON
 03/19/1997 - 11/30/2001 FY01: \$461,000 Total: \$1,812,200
Prin. Invest.: D KEIL
Tech. Officer: GSFC/D NAVA
CASE Category: 12 - CHEMISTRY

NAG 5 4223 UNIV OF HAWAII AT MANOA - HONOLULU 4032
 OBSERVATION AND ANALYSIS OF JOVIAN AND SATURNIAN S
 03/26/1997 - 09/14/2001 FY01: \$0 Total: \$32,000
Prin. Invest.: D J THOLEN
Tech. Officer: GSFC/W HUEBNER
CASE Category: 11 - ASTRONOMY

NAG 5 4257 UNIV OF HAWAII AT MANOA - HONOLULU 4033
 MAPPING HAZARDOUS VOLCANOES WITH RADARSAT AND OTHE
 04/10/1997 - 02/28/2001 FY01: \$0 Total: \$60,000
Prin. Invest.: P MOUGINIS-MARK
Tech. Officer: GSFC/R H THOMAS
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 4395 UNIV OF HAWAII AT MANOA - HONOLULU 4034
 A GLOBAL ASSESSMENT OF ACTIVE VOLCANISM, VOLCANIC INPUTS TO
 THE ATMOSPHERE FROM THE EARTH OBSERVING
 05/06/1997 - 12/31/2000 FY01: -\$55 Total: \$1,050,945
Prin. Invest.: P J MOUGINIS-MARK
Tech. Officer: GSFC/M BALTUCK
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 4495 UNIV OF HAWAII AT MANOA - HONOLULU 4035
 DISTANT COMETS IN THE EARLY SOLAR SYSTEM
 05/06/1997 - 03/31/2002 FY01: \$97,815 Total: \$430,185
Prin. Invest.: D J MEECH
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 - ASTRONOMY

NAG 5 4524 UNIV OF HAWAII AT MANOA - HONOLULU 4036
 OBSERVATIONS OF PLANET-CROSSING ASTEROIDS
 05/28/1997 - 02/28/2002 FY01: \$56,500 Total: \$220,894
Prin. Invest.: D J THOLEN
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 - ASTRONOMY

NAG 5 4669 UNIV OF HAWAII AT MANOA - HONOLULU 4037
 THE SOLAR SYSTEM BEYOND NEPTUNE
 06/17/1997 - 12/31/2001 FY01: \$58,000 Total: \$272,495
Prin. Invest.: D C JEWITT
Tech. Officer: GSFC/D NAVA
CASE Category: 11 - ASTRONOMY

NAG 5 4941 UNIV OF HAWAII AT MANOA - HONOLULU 4038
 OBSERVATIONAL INVESTIGATION OF THE SOLAR INTERIOR
 06/23/1997 - 05/31/2001 FY01: \$88,349 Total: \$1,185,309
Prin. Invest.: B J LABONTE, NONE
Tech. Officer: GSFC/W WAGNER
CASE Category: 13 - PHYSICS

NAG 5 5276 UNIV OF HAWAII AT MANOA - HONOLULU 4039
 PHASE 1 OF CORAL REEF ECOSYSTEM PHASE 1 OF CORAL REEF
 ECOSYSTEM
 04/17/2000 - 04/13/2005 FY01: \$0 Total: \$291,000
Prin. Invest.: M ATKINSON
Tech. Officer: GSFC/D L PIERCE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6336 UNIV OF HAWAII AT MANOA - HONOLULU 4040
 A COMPARATIVE STUDY OF X-RAY & LENSING MASS DETERM INATIONS
 FOR THE MOST X-RAY LUMINOUS CLUSTERS IN
 10/02/1997 - 03/14/2001 FY01: \$0 Total: \$17,800
Prin. Invest.: H EBELING
Tech. Officer: GSFC/J SWANK
CASE Category: 11 - ASTRONOMY

NAG 5 6340 UNIV OF HAWAII AT MANOA - HONOLULU 4041
 AIRCRAFT RADIATION & AEROSOL MSMTS. NEAR HAWAII: SATELLITE
 VALIDATION AT THE MOBY BUOY & THE HOT SI
 10/02/1997 - 05/31/2002 FY01: \$156,762 Total: \$846,282
Prin. Invest.: J N PORTER
Tech. Officer: GSFC/D O STARR
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 6433 UNIV OF HAWAII AT MANOA - HONOLULU 4042
 A SYSTEM FOR ACQUISITION DISEMINATION OF EARTH SCI ENCE DATA VIA
 THEINTERNET
 10/17/1997 - 04/14/2000 FY01: -\$1,213 Total: \$828,810
Prin. Invest.: T NEILSEN
Tech. Officer: GSFC/J DODGE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6442 UNIV OF HAWAII AT MANOA - HONOLULU 4043
 UNDERSTANDING SEASONAL-TO-INTERANNUAL FLUCTUATIONS OF THE
 NORTH PACIFIC SUBTROPICAL GYRE THROUGH MO
 11/13/1997 - 09/30/2000 FY01: -\$249 Total: \$126,971
Prin. Invest.: B QIU
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6561 UNIV OF HAWAII AT MANOA - HONOLULU 4044
 SPECTROSCOPIC OBSERVATIONS OF THE PLANETS
 12/09/1997 - 03/31/2002 FY01: \$0 Total: \$159,000
Prin. Invest.: D OWEN
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 - ASTRONOMY

NAG 5 6753 UNIV OF HAWAII AT MANOA - HONOLULU 4045
 A MG II SPECTRAL ATLAS AND FLUX CATALOG FOR LATE- TYPE STARS IN
 THEHYADES CLUSTER
 01/12/1998 - 01/14/2000 FY01: \$0 Total: \$45,066
Prin. Invest.: T SIMON
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 6829 UNIV OF HAWAII AT MANOA - HONOLULU 4046
 OUTER SOLAR SYSTEM NOMENCLATURE
 01/15/1998 - 01/14/2002 FY01: \$0 Total: \$14,750
Prin. Invest.: T OWEN
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 7038 UNIV OF HAWAII AT MANOA - HONOLULU 4047
 WEAK LENSING FROM SPACE - ATP
 02/24/1998 - 03/31/2002 FY01: \$81,012 Total: \$246,327
Prin. Invest.: N KAISER
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 7056 UNIV OF HAWAII AT MANOA - HONOLULU 4048
 SUBMILLIMETER STUDIES OF COMETS
 02/27/1998 - 02/28/2002 FY01: \$0 Total: \$123,564
Prin. Invest.: D JEWITT
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 - ASTRONOMY

NAG 5 7139 UNIV OF HAWAII AT MANOA - HONOLULU 4049
 REMOTE RAMAN ANALYSIS FOR PLANETARY LANDERS
 03/04/1998 - 03/31/2002 FY01: \$0 Total: \$417,763
Prin. Invest.: S K SHARMA
Tech. Officer: GSFC/B CAMPBELL
CASE Category: 11 - ASTRONOMY

NAG 5 7383 UNIV OF HAWAII AT MANOA - HONOLULU 4050
 "ARCHITECTURE AND IMPLEMENTATION CONSIDERATION OF A HIGH-
 SPEED VIBERBI DECODER FOR REED-MULLER SUBC
 05/12/1998 - 09/14/2001 FY01: \$50,000 Total: \$249,000
Prin. Invest.: G UEHARA
Tech. Officer: GSFC/W H MILLER
CASE Category: 45 - ELECTRICAL ENGR

NAG 5 7485 UNIV OF HAWAII AT MANOA - HONOLULU 4051
 TO ESTABLISH SUPPORT FOR AN INTERNATIONAL PACIFIC RESEARCH
 CENTER (IPRC) AT THE UNIV. SCHOOL OF OCEA
 06/03/1998 - 04/30/2001 FY01: \$0 Total: \$1,000,000
Prin. Invest.: L MAGAARD
Tech. Officer: GSFC/P GLOERSEN
CASE Category: 33 - OCEANOGRAPHY

NAG 5 7513 UNIV OF HAWAII AT MANOA - HONOLULU 4052
 HYPERSPECTRAL REMOTE SENSING OF CORAL REEFS IN A TROPICAL
 ESTUARY
 07/28/1998 - 09/30/2001 FY01: \$0 Total: \$230,712
Prin. Invest.: M J ATKINSON
Tech. Officer: GSFC/J W CAMPBELL
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7578 UNIV OF HAWAII AT MANOA - HONOLULU 4053
 FUNDING FOR 'POST-ERUPTION HAZARDS AT MT. PINATUBO , PHIL-
 IPPINES'(SENH98-0118)
 08/04/1998 - 07/31/2002 FY01: \$262,000 Total: \$717,500
Prin. Invest.: P J MOUGINIS-MARK
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 7730 UNIV OF HAWAII AT MANOA - HONOLULU 4054
 INTERACTIVE TEACHING USING LANDSAT 5 AND LANDSAT 7 DATA
 09/29/1998 - 06/14/2002 FY01: \$30,433 Total: \$90,533
Prin. Invest.: L P FLYNN
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7855 UNIV OF HAWAII AT MANOA - HONOLULU 4055
 THERMAL INFRARED MEASUREMENTS OF THE MOON AND MERCURY
 12/07/1998 - 11/30/2001 FY01: \$63,499 Total: \$171,584
Prin. Invest.: D G LUCEY
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 - ASTRONOMY

NAG 5 7868 UNIV OF HAWAII AT MANOA - HONOLULU 4056
 CHEMISTRY AND MINERALOGY OF SURFACE UNITS ON EUROPA AND IO
 01/13/1999 - 12/31/2000 FY01: -\$581 Total: \$49,419
Prin. Invest.: D P FANALE
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 - ASTRONOMY

NAG 5 7963 UNIV OF HAWAII AT MANOA - HONOLULU 4057
 THE FIFTH PLANETARY VOLCANOLOGY FIELD WORKSHOP
 12/15/1998 - 10/31/2001 FY01: \$0 Total: \$46,000
Prin. Invest.: S K ROWLAND
Tech. Officer: GSFC/J GRANT
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 8002 UNIV OF HAWAII AT MANOA - HONOLULU 4058
 SOLAR LIMB SHAPE, RADIUS AND OSCILLATION STUDIES U SING SOHO/
 MDI
 01/12/1999 - 01/14/2002 FY01: \$124,811 Total: \$362,429
Prin. Invest.: J R KUHN
Tech. Officer: GSFC/J GURMAN
CASE Category: 11 - ASTRONOMY

NAG 5 8118 UNIV OF HAWAII AT MANOA - HONOLULU 4059
 A PRELIMINARY AEROSOL CLIMATOLOGY FOR THE PACIFIC BOUNDARY
 LAYER & FREE TROPOSPHERE
 01/29/1999 - 01/31/2002 FY01: \$111,000 Total: \$333,000
Prin. Invest.: A D CLARKE
Tech. Officer: GSFC/M MISHCHENKO
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 8216 UNIV OF HAWAII AT MANOA - HONOLULU 4060
 FIP, FIT, OR MAD? ANALYSIS OF HIGH SIGNAL-TO-NOISE ASCA SPECTRA
 OF CORONAL STARS (ADP98)
 02/08/1999 - 02/14/2002 FY01: \$22,527 Total: \$67,497
Prin. Invest.: T SIMON
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8253 UNIV OF HAWAII AT MANOA - HONOLULU 4061
 FROM DETECTION TO COMPREHENSION: UNDERSTANDING THE
 PHYSICAL MECHANISMS DRIVING CLUSTER X-RAY EVOLUTION
 02/19/1999 - 12/31/2001 FY01: \$143,000 Total: \$405,000
Prin. Invest.: H EBELING
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 8275 UNIV OF HAWAII AT MANOA - HONOLULU 4062
 NON-ICE CONSTITUENTS OF THE ICY GALILEAN SATELLITE SURFACES
 03/25/1999 - 12/31/2000 FY01: -\$479 Total: \$176,521
Prin. Invest.: T B MCCORD
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 - ASTRONOMY

NAG 5 8298 UNIV OF HAWAII AT MANOA - HONOLULU 4063
 A SURVEY FOR MASSIVE PLANETS BY DIRECT IMAGING WITH ADVANCED
 ADAPTIVE OPTICS
 02/23/1999 - 02/28/2002 FY01: \$135,000 Total: \$369,000
Prin. Invest.: D J RODDIER
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8300 UNIV OF HAWAII AT MANOA - HONOLULU 4064
 RADIATIVE BALANCE & BEHAVIOR OF THE SEASONAL MARS POLAR CAPS
 03/05/1999 - 03/14/2002 FY01: \$60,000 Total: \$177,000
Prin. Invest.: T MCCORD
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8330 UNIV OF HAWAII AT MANOA - HONOLULU 4065
 SOLAR-C: SCATTER-FREE OBSERVATORY FOR LIMB ACTIVE REGIONS
 AND CORONAE
 04/30/1999 - 04/30/2002 FY01: \$199,167 Total: \$506,785
Prin. Invest.: J R KUHN
Tech. Officer: GSFC/W WAGNER
CASE Category: 11 - ASTRONOMY

NAG 5 8421 UNIV OF HAWAII AT MANOA - HONOLULU 4066
 SCIENTIFIC RESEARCH FOR DESIGN REFERENCE MISSION FOR NEXT
 GENERATION SPACE TELESCOPE
 04/02/1999 - 04/14/2001 FY01: \$0 Total: \$20,000
Prin. Invest.: D N HALL
Tech. Officer: GSFC/E SMITH
CASE Category: 11 - ASTRONOMY

NAG 5 8593 UNIV OF HAWAII AT MANOA - HONOLULU 4067
 1999 BIOASTRONOMY MEETING
 06/04/1999 - 05/31/2001 FY01: \$0 Total: \$40,000
Prin. Invest.: T C OWEN
Tech. Officer: GSFC/M MEYER
CASE Category: 11 - ASTRONOMY

NAG 5 8713 UNIV OF HAWAII AT MANOA - HONOLULU 4068
 MINERALOGY AND ISOTOPE CHEMISTRY OF CA-AL-RICH INCLUSIONS,
 CHONDRULES & MATRIX IN THE CV CHONDRITE
 08/04/1999 - 07/31/2002 FY01: \$24,000 Total: \$70,500
Prin. Invest.: K KEIL
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8745 UNIV OF HAWAII AT MANOA - HONOLULU 4069
 LOCAL TSUNAMIS IN HAWAII: HAZARD ASSESSMENT & EMERGENCY
 RESPONSE
 08/24/1999 - 08/31/2001 FY01: \$0 Total: \$100,000
Prin. Invest.: G J FRYER
Tech. Officer: GSFC/E PAYLOR
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8748 UNIV OF HAWAII AT MANOA - HONOLULU 4070
 A REAL-TIME SIMULATION PACKAGE FOR STORM SURGE AND WAVE
 RUNUP PACIFIC
 08/25/1999 - 08/30/2002 FY01: \$0 Total: \$400,000
Prin. Invest.: K F CHEUNG
Tech. Officer: GSFC/E PAYLOR
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8751 UNIV OF HAWAII AT MANOA - HONOLULU 4071
 DEVELOPMENT OF A UV/VISIBLE-OPTIMIZED CCD FOR WFC3 ON HST
 09/08/1999 - 09/14/2001 FY01: \$0 Total: \$93,500
Prin. Invest.: G LUPPINO
Tech. Officer: GSFC/E CHENG
CASE Category: 13 - PHYSICS

NAG 5 8757 UNIV OF HAWAII AT MANOA - HONOLULU 4072
 IMAGING, GEOCODING AND ENVIRONMENTAL MONITORING IN HAWAII
 AND THE WEST PACIFIC
 08/24/1999 - 02/28/2002 FY01: \$0 Total: \$400,000
Prin. Invest.: M BEVIS
Tech. Officer: GSFC/E PAYLOR
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8863 UNIV OF HAWAII AT MANOA - HONOLULU 4073
 LABORATORY INVESTIGATIONS OF VOLATILE TRAPPING IN COMETS
 10/20/1999 - 09/30/2001 FY01: \$0 Total: \$80,000
Prin. Invest.: T C OWEN
Tech. Officer: GSFC/M MEYER
CASE Category: 11 - ASTRONOMY

NAG 5 8870 UNIV OF HAWAII AT MANOA - HONOLULU 4074
 VOLATILE EVOLUTION
 01/10/2000 - 06/30/2001 FY01: \$0 Total: \$72,347
Prin. Invest.: F P FANALE
Tech. Officer: GSFC/J GRANT
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 8903 UNIV OF HAWAII AT MANOA - HONOLULU 4075
 REMOTE SENSING AND GEOLOGIC STUDIES OF PLANETARY CRUSTS
 12/28/1999 - 12/31/2001 FY01: \$70,400 Total: \$137,280
Prin. Invest.: B HAWKE, NONE
Tech. Officer: GSFC/J GRANT
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 8920 UNIV OF HAWAII AT MANOA - HONOLULU 4076
 A GLOBAL ASSESSMENT OF ACTIVE VOLCANISM FROM THE EARTH
 OBSERVING SYSTEM
 01/24/2000 - 12/31/2001 FY01: \$0 Total: \$405,000
Prin. Invest.: P J MOUGINIS-MARK
Tech. Officer: GSFC/E D PAYLOR
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8921 UNIV OF HAWAII AT MANOA - HONOLULU 4077
 THE FIFTH PLANETARY VOLCANOLOGY FIELD WORKSHOP
 01/06/2000 - 12/31/2001 FY01: \$0 Total: \$10,000
Prin. Invest.: S K ROWLAND
Tech. Officer: GSFC/J GRANT
CASE Category: 11 - ASTRONOMY

NAG 5 8979 UNIV OF HAWAII AT MANOA - HONOLULU 4078
 FINDING THE ONSET OF CONVECTION IN MAIN SEQUENCE STARS - FUSE
 01/24/2000 - 01/31/2002 FY01: \$0 Total: \$68,700
Prin. Invest.: T SIMON, NONE
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 8983 UNIV OF HAWAII AT MANOA - HONOLULU 4079
 PROPERTIES OF ICE ON THE SURFACE OF EUROPA AND THE OTHER ICY
 GALILEAN SATELLITES
 01/24/2000 - 01/31/2002 FY01: \$45,000 Total: \$85,000
Prin. Invest.: G HANSEN
Tech. Officer: GSFC/D BOGAN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 8989 UNIV OF HAWAII AT MANOA - HONOLULU 4080
 OBSERVATIONS OF THE PLUTO-CHARON SYSTEM
 01/27/2000 - 03/31/2001 FY01: \$0 Total: \$10,360
Prin. Invest.: D J THOLEN
Tech. Officer: GSFC/T H MORGAN
CASE Category: 11 - ASTRONOMY

NAG 5 8991 UNIV OF HAWAII AT MANOA - HONOLULU 4081
 ASTEROID PROCESSING ON EROS
 01/24/2000 - 01/31/2001 FY01: \$0 Total: \$65,000
Prin. Invest.: P G LUCEY
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 - ASTRONOMY

NAG 5 9038 UNIV OF HAWAII AT MANOA - HONOLULU 4082
 VALIDATION AND ANALYSIS OF SRTM AND VCL DATA OVER TROPICAL
 VOLCANOES.
 02/10/2000 - 02/14/2002 FY01: \$74,000 Total: \$113,000
Prin. Invest.: P J MOUGINIS-MARK
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 9042 UNIV OF HAWAII AT MANOA - HONOLULU 4083
 ANALYSIS OF HIPPARCHOS MARGINAL PARALLAXES - ADP 99
 02/22/2000 - 02/28/2002 FY01: \$0 Total: \$45,059
Prin. Invest.: W D HEACOX
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9166 UNIV OF HAWAII AT MANOA - HONOLULU 4084
 ORIGIN & EVOLUTION OF STRUCTURE IN THE UNIVERSE DETERMINED
 FROM THE X-RAYEVOLUTION OF GALAXY
 03/08/2000 - 03/15/2002 FY01: \$0 Total: \$67,564
Prin. Invest.: J HENRY
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9190 UNIV OF HAWAII AT MANOA - HONOLULU 4085
 SHARING DISCOVERIES IN PLANETARY GEOSCIENCE ON THE WORLD
 WIDE WEB AND CD-ROM
 03/07/2000 - 03/14/2002 FY01: \$65,000 Total: \$130,000
Prin. Invest.: G TAYLOR
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 9238 UNIV OF HAWAII AT MANOA - HONOLULU 4086
 A CALIBRATION OF THE CLUSTER FLUX MEASUREMENTS IN THE ROSAT
 ALL-SKY SURVEY - ADP 99
 03/09/2000 - 03/14/2002 FY01: \$0 Total: \$30,321
Prin. Invest.: H EBELING
Tech. Officer: GSFC/R OLIVERSON
CASE Category: 11 - ASTRONOMY

NAG 5 9252 UNIV OF HAWAII AT MANOA - HONOLULU 4087
 REAL-TIME LABORATORY FOR REMOTE SENSING
 03/10/2000 - 02/28/2002 FY01: \$499,832 Total: \$748,199
Prin. Invest.: T NIELSEN
Tech. Officer: HQ/J DODGE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9354 UNIV OF HAWAII AT MANOA - HONOLULU 4088
 FULLERENES: A NEW CARRIER-PHASE FOR NOBLE GASES IN METEOR-
 ITES
 04/03/2000 - 10/31/2001 FY01: \$0 Total: \$40,000
Prin. Invest.: K KEIL
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 9413 UNIV OF HAWAII AT MANOA - HONOLULU 4089
 TRACKING ERUPTIONS & FIRES WITHIN THE RING OF FIRE
 04/07/2000 - 04/30/2002 FY01: \$175,666 Total: \$290,333
Prin. Invest.: L FLYNN
Tech. Officer: GSFC/J DODGE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9511 UNIV OF HAWAII AT MANOA - HONOLULU 4090
 INTERSTELLAR ORGANIC MOLECULES AND THE ORIGIN OF LIFE: THE
 ROLE OF EXOGENOUS DELIVERY
 05/03/2000 - 06/30/2002 FY01: \$90,000 Total: \$174,780
Prin. Invest.: K KEIL
Tech. Officer: GSFC/M MEYER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9576 UNIV OF HAWAII AT MANOA - HONOLULU 4091
 THE DIVERSITY OF MARTIAN VOLCANIC FEATURES AS SEEN IN MOC
 IMAGES AND MOLATOPOGRAPHIC DATA
 05/17/2000 - 04/30/2002 FY01: \$58,000 Total: \$115,700
Prin. Invest.: P MOUGINIS-MARK
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 9580 UNIV OF HAWAII AT MANOA - HONOLULU 4092
 A VOLCANIC PLUME DISPERSION MONITORING AND PREDICT ION
 CAPABILITY
 05/09/2000 - 09/30/2002 FY01: \$0 Total: \$213,210
Prin. Invest.: S BUSINGER
Tech. Officer: GSFC/E PAYLOR
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9757 UNIV OF HAWAII AT MANOA - HONOLULU 4093
 CONTROLS ON THE VARIABILITY OF PHYTOPLANKTON BIO- MASS &
 PRODUCTIVITY IN THE NORTHERN PACIFIC CENTRA
 06/23/2000 - 12/31/2001 FY01: \$122,917 Total: \$198,558
Prin. Invest.: R R BIDIGARE
Tech. Officer: GSFC/J MARRA
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9765 UNIV OF HAWAII AT MANOA - HONOLULU 4094
 GEOCHEMICAL STUDIES OF THE LUNAR CRUST
 07/03/2000 - 06/30/2002 FY01: \$25,000 Total: \$49,000
Prin. Invest.: B HAWKE
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 9896 UNIV OF HAWAII AT MANOA - HONOLULU 4095
 MAPPING THE STELLAR X-RAY EMISSION BEYOND 1 GYR IN SPACE AND
 TIME
 09/06/2000 - 09/14/2001 FY01: \$0 Total: \$7,000
Prin. Invest.: T SIMON
Tech. Officer: GSFC/R F MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 9921 UNIV OF HAWAII AT MANOA - HONOLULU 4096
 X-RAY EMISSION FROM BROWN DWARFS: A SEQUENCE OF TEMPERA-
 TURES AND AGES?
 09/05/2000 - 09/14/2001 FY01: \$0 Total: \$7,800
Prin. Invest.: W BRANDNER
Tech. Officer: GSFC/R F MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 9992 UNIV OF HAWAII AT MANOA - HONOLULU 4097
 SEARCH FOR X-RAY EMISSION IN THE NEAREST KNOWN BROWN DWARF
 09/20/2000 - 08/31/2002 FY01: \$14,000 Total: \$30,000
Prin. Invest.: E MARTIN
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 9994 UNIV OF HAWAII AT MANOA - HONOLULU 4098
 RXJ1821+6828: TEMPERATURE DISTRIBUTION AND METALLI CITY FOR A
 Z=0.81 CLUSTER
 09/14/2000 - 08/31/2002 FY01: \$16,000 Total: \$38,500
Prin. Invest.: I M GIOIA
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10025 UNIV OF HAWAII AT MANOA - HONOLULU 4099
 HARD X-RAYS FROM A COMPLETE SAMPLE OF THE BRIGHTEST ULTRALU-
 MINOUS INFRARED GALAXIES
 09/27/2000 - 09/30/2001 FY01: \$0 Total: \$32,400
Prin. Invest.: D B SANDERS
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10041 UNIV OF HAWAII AT MANOA - HONOLULU 4100
 MEASURING THE MASS DISTRIBUTION IN Z~0.2 CLUSTER LENSES WITH
 XMM, HST AND CFHT
 10/03/2000 - 09/30/2001 FY01: \$11,000 Total: \$11,000
Prin. Invest.: H EBELING
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10045 UNIV OF HAWAII AT MANOA - HONOLULU 4101
 DATA-INTENSIVE RESEARCH & MODEL DEVELOPMENT AT THE INTERNA-
 TIONAL PACIFIC RESEARCH CENTER
 09/28/2000 - 09/30/2001 FY01: \$750,000 Total: \$1,000,000
Prin. Invest.: J MCCREARY
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10085 UNIV OF HAWAII AT MANOA - HONOLULU 4102
 THE X-RAY TEMPERATURE FUNCTION AND STRUCTURE OF CLUSTERS AT
 Z=0.6-1
 11/07/2000 - 11/14/2001 FY01: \$5,162 Total: \$5,162
Prin. Invest.: H EBELING
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10111 UNIV OF HAWAII AT MANOA - HONOLULU 4103
 MONITORING SURFACE DEFORMATION AT HAWAIIAN & OTHER BASALTIC
 VOLCANOES WITH RADARSAT INTERFEROMETRY
 11/20/2000 - 11/30/2001 FY01: \$20,185 Total: \$20,185
Prin. Invest.: F AMELUNG
Tech. Officer: GSFC/K PARTINGTON
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10128 UNIV OF HAWAII AT MANOA - HONOLULU 4104
 AN XMM STUDY OF LOW-ACTIVITY CORONAL STARS OF 1-2 SOLAR
 MASSES
 11/28/2000 - 11/30/2001 FY01: \$4,500 Total: \$4,500
Prin. Invest.: T SIMON
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

<p>NAG 5 10133 UNIV OF HAWAII AT MANOA – HONOLULU 4105 PARTICIPATION IN PLANET-B NMS TEAM 12/12/2000 – 12/14/2001 FY01: \$15,000 Total: \$15,000 <i>Prin. Invest.:</i> T C OWEN <i>Tech. Officer:</i> GSFC/J E RICHARDS CASE Category: 31 – ATMOSPHERIC SCIENCE</p>	<p>NAG 5 10564 UNIV OF HAWAII AT MANOA – HONOLULU 4113 A DEEP X-RAY SURVEY OF LOW-MASS PMS STARS IN NGC 2264 03/15/2001 – 03/14/2002 FY01: \$19,133 Total: \$19,133 <i>Prin. Invest.:</i> T SIMON <i>Tech. Officer:</i> GSFC/R MUSHOTZKY CASE Category: 11 – ASTRONOMY</p>
<p>NAG 5 10141 UNIV OF HAWAII AT MANOA – HONOLULU 4106 NEW OPPORTUNITIES THROUGH MINORITY INITIATIVES IN SPACE SCIENCE 12/19/2000 – 12/31/2001 FY01: \$249,950 Total: \$249,950 <i>Prin. Invest.:</i> R A CROWE <i>Tech. Officer:</i> HQ/P SAKIMOTO CASE Category: 11 – ASTRONOMY</p>	<p>NAG 5 10610 UNIV OF HAWAII AT MANOA – HONOLULU 4114 CHRONOLOGY OF THE EARLY SOLAR NEBULA: DISTRIBUTION OF 26A1 INCHONDRULES FROM PRIMITIVE C 03/16/2001 – 03/14/2002 FY01: \$30,000 Total: \$30,000 <i>Prin. Invest.:</i> A KROT, NONE <i>Tech. Officer:</i> GSFC/J M BOYCE CASE Category: 11 – ASTRONOMY</p>
<p>NAG 5 10228 UNIV OF HAWAII AT MANOA – HONOLULU 4107 THE SIXTH PLANETARY VOLCANOLOGY FIELD WORKSHOP 01/04/2001 – 01/14/2002 FY01: \$48,000 Total: \$48,000 <i>Prin. Invest.:</i> S K ROWLAND <i>Tech. Officer:</i> GSFC/D SENSKE CASE Category: 11 – ASTRONOMY</p>	<p>NAG 5 10640 UNIV OF HAWAII AT MANOA – HONOLULU 4115 EFFECTS OF VOLCANIC ERUPTIONS ON THE NATURAL ENVIRONMENT 03/20/2001 – 03/31/2002 FY01: \$250,000 Total: \$250,000 <i>Prin. Invest.:</i> P MOUGINIS-MARK <i>Tech. Officer:</i> GSFC/E D PAYLOR, II CASE Category: 99 – MULTI INTERDISCIPL, OTHER</p>
<p>NAG 5 10229 UNIV OF HAWAII AT MANOA – HONOLULU 4108 VOLATILE EVOLUTION 01/04/2001 – 01/14/2002 FY01: \$76,000 Total: \$76,000 <i>Prin. Invest.:</i> F P FANALE <i>Tech. Officer:</i> GSFC/D SENSKE CASE Category: 99 – MULTI INTERDISCIPL, OTHER</p>	<p>NAG 5 10646 UNIV OF HAWAII AT MANOA – HONOLULU 4116 HIGH TEMPERATURES AND DISKS AROUND PMS STARS FUSE SPECTRA OF THREE HERBIGAEBE STARS – FUSE 2000 03/27/2001 – 05/31/2002 FY01: \$23,500 Total: \$23,500 <i>Prin. Invest.:</i> T SIMON <i>Tech. Officer:</i> GSFC/G SONNEBORN CASE Category: 11 – ASTRONOMY</p>
<p>NAG 5 10237 UNIV OF HAWAII AT MANOA – HONOLULU 4109 REGIONAL PLANETARY IMAGE CENTER 01/08/2001 – 01/14/2002 FY01: \$50,300 Total: \$50,300 <i>Prin. Invest.:</i> B R HAWKE <i>Tech. Officer:</i> GSFC/D SENSKE CASE Category: 11 – ASTRONOMY</p>	<p>NAG 5 10704 UNIV OF HAWAII AT MANOA – HONOLULU 4117 A LIGHTWEIGHT FTIR SPECTROMETER FOR IN SITU GAS ANALYSIS 05/01/2001 – 03/31/2002 FY01: \$110,940 Total: \$110,940 <i>Prin. Invest.:</i> P LUCEY <i>Tech. Officer:</i> GSFC/B BETTS CASE Category: 11 – ASTRONOMY</p>
<p>NAG 5 10427 UNIV OF HAWAII AT MANOA – HONOLULU 4110 EVOLUTION OF DUST AROUND STARS 02/16/2001 – 02/28/2002 FY01: \$35,000 Total: \$35,000 <i>Prin. Invest.:</i> D JEWITT <i>Tech. Officer:</i> GSFC/J BOYCE CASE Category: 11 – ASTRONOMY</p>	<p>NAG 5 10750 UNIV OF HAWAII AT MANOA – HONOLULU 4118 SPATIAL STATISTICS OF LARGE ASTRONOMICAL DATABASES AN ALGORITHMIC APPROACH 05/03/2001 – 04/14/2002 FY01: \$75,000 Total: \$75,000 <i>Prin. Invest.:</i> I SZAPUDI <i>Tech. Officer:</i> GSFC/P E HUNTER CASE Category: 99 – MULTI INTERDISCIPL, OTHER</p>
<p>NAG 5 10437 UNIV OF HAWAII AT MANOA – HONOLULU 4111 PHYSICAL PROPERTIES OF COMETRAY NUCLEUS CANDIDATES 02/20/2001 – 02/28/2002 FY01: \$55,500 Total: \$55,500 <i>Prin. Invest.:</i> D JEWITT <i>Tech. Officer:</i> GSFC/T MORGAN CASE Category: 11 – ASTRONOMY</p>	<p>NAG 5 10773 UNIV OF HAWAII AT MANOA – HONOLULU 4119 A CALIBRATION OF THE CLUSTER FLUX MEASUREMENTS IN THE ROSAT ALL-SKYSURVEY 04/20/2001 – 04/30/2002 FY01: \$55,000 Total: \$55,000 <i>Prin. Invest.:</i> H EBELING <i>Tech. Officer:</i> GSFC/R J OLIVERSEN CASE Category: 11 – ASTRONOMY</p>
<p>NAG 5 10514 UNIV OF HAWAII AT MANOA – HONOLULU 4112 STABILITY & BEHAVIOR OF HYDRATED/HYDROXYLATED MATERIALS IN COLD SOLAR SYSTEM ENVIRONMENTS 03/05/2001 – 03/31/2002 FY01: \$75,000 Total: \$75,000 <i>Prin. Invest.:</i> T MCCORD <i>Tech. Officer:</i> GSFC/J BOYCE CASE Category: 12 – CHEMISTRY</p>	<p>NAG 5 10909 UNIV OF HAWAII AT MANOA – HONOLULU 4120 APPLICATION OF A THERMO-RHEOLOGICAL LAVA FLOW MODEL TO MARTIAN CONDITIONS 05/09/2001 – 05/14/2002 FY01: \$50,000 Total: \$50,000 <i>Prin. Invest.:</i> S ROWLAND <i>Tech. Officer:</i> GSFC/J M BOYCE CASE Category: 99 – MULTI INTERDISCIPL, OTHER</p>

NAG 5 11138 UNIV OF HAWAII AT MANOA - HONOLULU 4121
 PARTICIPATION ON THE CASSINI-HUYGENS GAS CHROMATO- GRAPH-
 MASS SPECTROMETER(GCMS) TEAM
 07/25/2001 - 07/31/2005 FY01: \$15,000 Total: \$15,000
Prin. Invest.: T C OWEN *Prin. Invest.:* NONE
Tech. Officer: GSFC/W T KASPRZAK
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 11362 UNIV OF HAWAII AT MANOA - HONOLULU 4122
 FLOW-EJECTA CRATER POPULATION ON MARS & CHRONOLOGY OF
 MAJOR GEOLOGIC EVENTS
 09/26/2001 - 09/30/2004 FY01: \$84,000 Total: \$84,000
Prin. Invest.: K KEIL
Tech. Officer: GSFC/J BOYCE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 20704 UNIV OF HAWAII AT MANOA - HONOLULU 4123
 A LIGHTWEIGHT FTIR SPECTROMETER FOR IN SITU GAS ANALYSIS
 04/09/2001 - 04/30/2001 FY01: \$0 Total: \$0
Prin. Invest.: P LUCEY
Tech. Officer: GSFC/B BETTS
CASE Category: 11 - ASTRONOMY

NAG 8 1798 UNIV OF HAWAII AT MANOA - HONOLULU 4124
 RESEARCH, "CURVATURE-BASED WAVEFRONT SENSOR FOR USE ON
 EXTENDED, ARBITRARY, LOW CONTRAST SCENES"
 04/25/2001 - 04/24/2004 FY01: \$215,000 Total: \$215,000
Prin. Invest.: B J LABONTE
Tech. Officer: MSFC/A KEYS
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAS 2 98077 UNIV OF HAWAII AT MANOA - HONOLULU 4125
 DEVELOPMENT OF ADVANCED NEAR INFRARED FOCAL PLANE
 TECHNOLOGY
 08/04/1998 - 06/30/2003 FY01: \$2,706,106 Total: \$3,698,106
Prin. Invest.: D N HALL
Tech. Officer: ARC/K W HODAPP
CASE Category: 11 - ASTRONOMY

NAS 5 30951 UNIV OF HAWAII AT MANOA - HONOLULU 4126
 INTERPRETATION OF GALILEO PROBE MASS SPECTROMETER DATA
 01/15/1991 - 04/30/2000 FY01: \$0 Total: \$280,168
Prin. Invest.: T C OWENS
Tech. Officer: GSFC/J R RICHARDS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAS 5 97136 UNIV OF HAWAII AT MANOA - HONOLULU 4127
 MEASUREMENTS OF AEROSOL, OCEAN & SKY PROPERTIES AT THE HOT
 SITE IN THE CENTRAL PACIFIC
 09/29/1997 - 03/28/2001 FY01: \$0 Total: \$396,097
Prin. Invest.: J PORTER
Tech. Officer: GSFC/C MCLAIN
CASE Category: 33 - OCEANOGRAPHY

NAS 5 99180 UNIV OF HAWAII AT MANOA - HONOLULU 4128
 LASER RANGING OPERATION, REPAIR & MAINTENANCE OF LURE
 OBSERVATORY FACILITY, MAUI, HI.
 08/19/1999 - 08/18/2004 FY01: \$490,000 Total: \$1,150,000
Prin. Invest.: D O'GARA
Tech. Officer: GSFC/J MCGARRY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NASW 5062 UNIV OF HAWAII AT MANOA - HONOLULU 4129
 OPERATION AND MAINTENANCE OF THE INFRARED TELESCOPE FACILITY
 01/31/1996 - 01/31/2001 FY01: \$0 Total: \$14,916,140
Prin. Invest.: D N HALL, R JOSEPH
Tech. Officer: HQ/E BARKER
CASE Category: 11 - ASTRONOMY

NCC 1 315 UNIV OF HAWAII AT MANOA - HONOLULU 4130
 SIZE RESOLVED AEROSOL NUCLEI AND PHYSICO-CHEMISTRY FOR PEM-
 TROPICS B ABOARD P-3B, REF NRA-97-MTPE-13
 08/17/1998 - 08/31/2002 FY01: \$0 Total: \$346,930
Prin. Invest.: A D CLARKE, V KAPUSTIN
Tech. Officer: LARC/J M HOELL, LARC/R J BENDURA
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 1 416 UNIV OF HAWAII AT MANOA - HONOLULU 4131
 AEROSOL PHYSICO-CHEMISTRY: P-3B AIRCRAFT MEASURE- MENTS FOR
 TRACE-P. NRA00-OES-01.
 09/25/2000 - 09/30/2003 FY01: \$108,248 Total: \$217,825
Prin. Invest.: A D CLARKE
Tech. Officer: LARC/J L RAPER, SR
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 3 696 UNIV OF HAWAII AT MANOA - HONOLULU 4132
 FLAME DESIGN - A NOVEL APPROACH TO CLEAN, EFFICIENT DIFFUSION
 FLAMES
 03/25/1999 - 01/13/2003 FY01: \$15,414 Total: \$46,016
Prin. Invest.: B CHAO
Tech. Officer: GRC/D L URBAN
CASE Category: 49 - ENGINEERING, OTHER

NCC 5 373 UNIV OF HAWAII AT MANOA - HONOLULU 4133
 PARTICIPATION IN THE COMPOSITE INFRARED SPECTROMET ER (CIRS)
 PROJECT AS CO-INVESTIGATOR
 01/12/1999 - 01/14/2001 FY01: \$0 Total: \$18,000
Prin. Invest.: T C OWEN
Tech. Officer: GSFC/G L BJORAKER
CASE Category: 11 - ASTRONOMY

NCC 5 461 UNIV OF HAWAII AT MANOA - HONOLULU 4134
 QUANTITATIVE ANALYSIS OF HOT SPOTS USING EO-1 & LAND SAT 7.
 02/28/2000 - 12/31/2001 FY01: \$30,000 Total: \$54,365
Prin. Invest.: L P FLYNN
Tech. Officer: GSFC/S G UNGAR
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 5 538 UNIV OF HAWAII AT MANOA - HONOLULU 4135
 THE NASA INFRARED TELESCOPE FACILITY: SOLAR SYSTEM OBSERVA-
 TIONS AND MISSION SUPPORT
 02/12/2001 - 01/31/2002 FY01: \$3,198,459 Total: \$3,198,459
Prin. Invest.: R KUDRITZKI
Tech. Officer: GSFC/T MORGAN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30179 UNIV OF HAWAII AT MANOA - HONOLULU 4136
 PHYSICAL MODELING OF MULTI-SPECTRAL DATA TO CHARAC TERIZE
 DEPTH & BOTTOM-TYPE IN NEARSHORE MARINE CA
 08/12/1999 - 08/31/2001 FY01: \$0 Total: \$22,000
Prin. Invest.: C FLETCHER
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30207 UNIV OF HAWAII AT MANOA - HONOLULU 4137
 SOURCES AND ISOTOPIC COMPOSITIONS OF NITROUS OXIDE FROM THE
 SUBTROPIC NORTH PACIFIC & EASTERN TROPIC
 08/19/1999 - 08/31/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: B POPP, NONE
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 40021 UNIV OF HAWAII AT MANOA - HONOLULU 4138
 TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE
 AND FELLOWSHIP PROGRAM.
 02/13/1997 - 01/31/2001 FY01: -\$165,524 Total: \$1,433,254
Prin. Invest.: D TAYLOR
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40076 UNIV OF HAWAII AT MANOA - HONOLULU 4139
 HAWAII SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
 02/08/2001 - 01/31/2002 FY01: \$588,324 Total: \$588,324
Prin. Invest.: G TAYLOR
Tech. Officer: GSFC/D D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50017 UNIV OF HAWAII AT MANOA - HONOLULU 4140
 THE LINK BETWEEN INTERACTIONS, INFRARED EMISSION A OF GALAXIES:
 A DETAILED STUDY OF A COMPLETE SAMP
 07/14/1997 - 06/30/2000 FY01: \$0 Total: \$44,000
Prin. Invest.: J E BARMES
Tech. Officer: GSFC/A NURRIDIN
CASE Category: 99 - MULTIINTERDISCIPL, OTHER

NGT 5 50175 UNIV OF HAWAII AT MANOA - HONOLULU 4141
 A COMPLETE SAMPLE OF X-RAY SELECTED GALAXY CLUSTER S FROM
 THE ROSAT NORTHECLIPTIC POLE SURVEY
 05/22/1998 - 06/30/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: J HENRY/MULLIS
Tech. Officer: HQ/A NURRIDIN
CASE Category: 11 - ASTRONOMY

NGT 5 50319 UNIV OF HAWAII AT MANOA - HONOLULU 4142
 THE CHANGING FACE OF A NEW VOLCANIC LANDSCAPE SYST EM: RATES,
 CAUSES & HAZARDS/STUDENT: JOHN BAILEY
 08/16/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: P MOUGINIS-MARK
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 50357 UNIV OF HAWAII AT MANOA - HONOLULU 4143
 A STUDY OF PLANETARY SYSTEM FORMATION & EVOLUTION WITH A DUAL
 CHANNEL ADAPTIVE OPTICS IMAGING POLAR
 05/14/2001 - 06/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: D JEWITT
Tech. Officer: GSFC/K E BLANDING
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 4828 UNIV OF HAWAII SYSTEM 4144
 X-RAY TEMPERATURES FOR A COMPLETE SAMPLE OF DISTAN
 06/20/1997 - 06/30/2000 FY01: -\$59 Total: \$18,841
Prin. Invest.: J HENRY
Tech. Officer: GSFC/N WHITE
CASE Category: 11 - ASTRONOMY

NAG 5 6799 UNIV OF HAWAII WINDWARD COMM COLLEGE 4145
 ESTABLISHING A RS/GIS EDUCATIONAL TRAINING AND ENVIRONMENTAL
 MONITORING CENTER IN HAWAII
 02/27/1998 - 02/29/2000 FY01: -\$80 Total: \$92,934
Prin. Invest.: J E CIOTTI
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

IDAHO

NAG 5 7537 BOISE STATE UNIV 4146
 INVESTIGATION OF PHYSICAL PROCESS DYNAMICS DURING COLD
 SEASON FLOODING.
 06/18/1998 - 06/30/2002 FY01: \$0 Total: \$109,909
Prin. Invest.: P DAWSON
Tech. Officer: GSFC/E ENGMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10982 IDAHO STATE UNIV 4147
 WILDFIRE EFFECTS ON RANGELAND ECOSYSTEMS AND LIVE STOCK
 GRAZING IN IDAHO
 06/12/2001 - 06/14/2002 FY01: \$348,889 Total: \$348,889
Prin. Invest.: K T WEBER
Tech. Officer: GSFC/W TURNER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9052 UNIV OF IDAHO - MOSCOW, IDAHO 4148
 NOVA ONLINE ESS
 02/14/2000 - 09/14/2002 FY01: \$74,835 Total: \$149,834
Prin. Invest.: M R ODELL
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9846 UNIV OF IDAHO - MOSCOW, IDAHO 4149
 STUDY OF LAND-ATMOSPHERE INTERACTIONS USING SATELLITE DATA
 ASSIMILATION
 08/01/2000 - 07/31/2002 FY01: \$0 Total: \$19,084
Prin. Invest.: R J QUALLS
Tech. Officer: GSFC/P R HOUSER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9876 UNIV OF IDAHO - MOSCOW, IDAHO 4150
 LAND SURFACE MODELING & DATA ASSIMILATION WITH IN SITU & REMOTE
 SENSING DATA FROM CASES-97
 08/22/2000 - 07/14/2002 FY01: \$46,399 Total: \$121,988
Prin. Invest.: R QUALLS
Tech. Officer: GSFC/P HOUSER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10210 UNIV OF IDAHO - MOSCOW, IDAHO 4151
 LEWIS & CLARK REDISCOVERY PROJECT: LIFE-LONG LEARNING ONLINE
 (L3)
 01/03/2001 - 12/31/2001 FY01: \$1,831,000 Total: \$1,831,000
Prin. Invest.: J A TEASDALE
Tech. Officer: GSFC/M PHELPS
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 11112 UNIV OF IDAHO - MOSCOW, IDAHO 4152
 VALIDATION OF THE ATMOSPHERIC INFRARED SOUNDER (AI RS) OVER
 THE ANTARCTIC PLATEAU (AQUA-0080-033) NR
 07/12/2001 - 08/31/2002 FY01: \$99,319 Total: \$99,319
Prin. Invest.: V P WALDEN
Tech. Officer: GSFC/D STARR
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NCC 2 1174 UNIV OF IDAHO - MOSCOW, IDAHO 4153
 ANALYZING THE IMPACT OF RISK AND TASK ANALYSIS AND HUMAN
 FACTORS PRICIPLES ON THE OUTCOME OF
 04/24/2000 - 04/14/2002 FY01: \$135,867 Total: \$260,670
Prin. Invest.: L T OSTROM
Tech. Officer: ARC/B G KANKE
CASE Category: 69 - PSYCHOLOGY, OTHER

NCC 5 395 UNIV OF IDAHO - MOSCOW, IDAHO 4154
 NASA EPSCOR: PREPARATORY GRANT PROPOSAL
 05/13/1999 - 05/31/2002 FY01: \$11,500 Total: \$508,298
Prin. Invest.: R GILL
Tech. Officer: HQ/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 577 UNIV OF IDAHO - MOSCOW, IDAHO 4155
 IDAHO NASA EPSCOR PROGRAM
 08/17/2001 - 07/31/2004 FY01: \$125,000 Total: \$125,000
Prin. Invest.: J TEASDALE
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40056 UNIV OF IDAHO - MOSCOW, IDAHO 4156
 TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE
 AND FELLOWSHIP PROGRAM.
 02/12/1997 - 02/28/2001 FY01: \$97,953 Total: \$1,329,787
Prin. Invest.: J TEASDALE
Tech. Officer: GSFC/D E DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40108 UNIV OF IDAHO - MOSCOW, IDAHO 4157
 IDAHO SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
 03/02/2001 - 02/28/2002 FY01: \$532,325 Total: \$532,325
Prin. Invest.: J TEASDALE
Tech. Officer: GSFC/D D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

ILLINOIS

NAG 1 2263 BRADLEY UNIV 4158
 EFFECTS OF SELECTED TASK PERFORMANCE CRITERIA AT INITIATING
 ADAPTIVE TASK REALLOCATIONS
 01/24/2000 - 11/01/2000 FY01: -\$1,027 Total: \$24,727
Prin. Invest.: D A MONTGOMERY
Tech. Officer: LARC/L J PRINZEL, LARC/A T POPE
CASE Category: 69 - PSYCHOLOGY, OTHER

NAG 5 9734 CHICAGO STATE UNIV 4159
 THUNDERSTORM OBSERVATIONS AND RESEARCH
 06/27/2000 - 06/30/2001 FY01: \$0 Total: \$100,000
Prin. Invest.: R SOLAKIEWICZ
Tech. Officer: GSFC/C PERSON
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 2 5414 DEPAUL UNIV 4160
 DEVELOPING, EVALUATING & APPLYING A COMPUTATIONAL MODEL OF
 INFORMATION NAVIGATION
 12/19/2000 - 12/31/2001 FY01: \$16,920 Total: \$16,920
Prin. Invest.: C S MILLER
Tech. Officer: ARC/R W REMINGTON
CASE Category: 22 - COMPUTER SCIENCE

NCC 5 272 DEPAUL UNIV 4161
 OSS EDUCATION AND OUTREACH BROKER/FACILITATOR PROG RAM
 02/24/1998 - 03/14/2002 FY01: \$245,000 Total: \$865,000
Prin. Invest.: C C NARASIMHAN
Tech. Officer: GSFC/J ROSENDHAL
CASE Category: 11 - ASTRONOMY

NAG 8 1827 FINCH UNIV HEALTH SCI / CHICAGO MED SCH 4162
 CRYSTALLIZATION OF THE MITOCHONDRIAL METABOLITE TRANSPORT
 PROTEINS
 09/13/2001 - 11/30/2004 FY01: \$72,000 Total: \$72,000
Prin. Invest.: R S KAPLAN
Tech. Officer: MSFC/B GUYNES
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 8 1723 ILLINOIS INST OF TECHNOLOGY 4163
 A WARNING SYSTEM FOR EARLY DETECTION OF COLLAPSE OF STRUC-
 TURES DURING FIRE
 06/05/2000 - 06/04/2001 FY01: -\$221 Total: \$19,779
Prin. Invest.: M OZBAY
Tech. Officer: GRC/S GARG
CASE Category: 41 - AERONAUTICAL ENGNR

NCC 3 798 ILLINOIS INST OF TECHNOLOGY 4164
 MODELING NONLINEAR ACOUSTIC STANDING WAVES IN RESO NATORS:
 THEORY AND EXPERIMENT
 05/16/2000 - 04/30/2003 FY01: \$50,000 Total: \$100,000
Prin. Invest.: D RAMAN
Tech. Officer: GRC/B M STEINETZ
CASE Category: 46 - MECHANICAL ENGR

NAG 5 9584 ILLINOIS STATE UNIV 4165
 DETERMINATION OF THE MAGNETOTAL CURRENT SHEET STR UCTURE
 USING NONLINEARDYNAMICS MODELING AND GEOTA
 05/25/2000 - 05/31/2002 FY01: \$54,089 Total: \$103,989
Prin. Invest.: D HOLLAND
Tech. Officer: GSFC/J SHARBER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1262 ILLINOIS STATE UNIV 4166
 RESEARCH JOVE
 01/17/1997 - 08/31/2000 FY01: \$0 Total: \$51,000
Prin. Invest.: D HOLLAND
Tech. Officer: MSFC/J F DOWNDY, MSFC/J R PRUITT
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 2 1512 JUDSON COLLEGE-ELGIN ILLINOIS 4167
 EFFECTS OF OSCILLATORY ACCELERATIONS ON BACTERIAL PROLIFER-
 ATION & RESPONSE TO ANTIBIOTICS
 08/17/2001 - 07/31/2002 FY01: \$65,889 Total: \$65,889
Prin. Invest.: E A JUERGENSMAYER
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 1 2269 KNOX COLLEGE 4168
 INVESTIGATION OF CHEMICALLY TREATED TEST-STRIPS FOR OZONE MEASUREMENT
 02/10/2000 – 09/30/2000 FY01: -\$818 Total: \$11,209
Prin. Invest.: L C BUSH
Tech. Officer: LARC/J FISHMAN, LARC/R J DE YOUNG
CASE Category: 12 – CHEMISTRY

NAG 1 2313 NORTHWESTERN UNIV 4169
 MECHANICS OF NANOTUBES & NANOTUBE/POLYMER COMPOSITES
 07/18/2000 – 07/19/2003 FY01: \$52,234 Total: \$105,234
Prin. Invest.: R S RUOFF
Tech. Officer: LARC/T S GATES
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 1 01058 NORTHWESTERN UNIV 4170
 SURFACE TEMPLATED GROWTH & ASSEMBLY OF CARBON NANOTUBE ARRAYS
 05/29/2001 – 05/28/2002 FY01: \$100,000 Total: \$100,000
Prin. Invest.: C A MIRKIN
Tech. Officer: LARC/J D JORDAN
CASE Category: 11 – ASTRONOMY

NAG 2 1527 NORTHWESTERN UNIV 4171
 MATHEMATICAL AND COMPUTATIONAL ANALYSIS OF CENTRAL CARBON PATHWAYS FOR EFFICIENT METABOLIC ENGINEER
 09/14/2001 – 09/14/2002 FY01: \$62,587 Total: \$62,587
Prin. Invest.: V HATZIMMANIKATIS
Tech. Officer: ARC/J HINES, ARC/P FUNG
CASE Category: 43 – CHEMICAL ENGR

NAG 3 1737 NORTHWESTERN UNIV 4172
 THEORY OF SOLIDIFICATION
 04/18/1995 – 05/31/2000 FY01: \$0 Total: \$754,000
Prin. Invest.: S H DAVIS
Tech. Officer: GRC/A CHART
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1823 NORTHWESTERN UNIV 4173
 COARSENING IN SOLID-LIQUID MIXTURES
 04/01/1996 – 05/31/2001 FY01: \$0 Total: \$837,375
Prin. Invest.: P W VOORHEES
Tech. Officer: GRC/T K GLASGOW
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 1855 NORTHWESTERN UNIV 4174
 CONTROLL OF FLOWING LIQUID FILMS BY ELECTROSTATIC FIELDS IN SPACE
 04/26/1996 – 05/31/2001 FY01: \$0 Total: \$480,000
Prin. Invest.: S G BANKOFF, R A SCHLUTER, M J MIKISIS
Tech. Officer: GRC/R A WILKINSON
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 3 1863 NORTHWESTERN UNIV 4175
 COMBUSTION OF ROTATING SPHERICAL PREMIXED AND DIFFUSION FLAMES IN MICROGRAVITY
 07/02/1996 – 12/31/2000 FY01: \$0 Total: \$211,968
Prin. Invest.: S H SOHRAB
Tech. Officer: GRC/N D PILTCH
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1892 NORTHWESTERN UNIV 4176
 THE MICROMECHANICS OF THE MOVING CONTACT LINE
 06/01/1996 – 05/31/2001 FY01: \$0 Total: \$320,000
Prin. Invest.: S LICHTER
Tech. Officer: GRC/M WEISLOGEL
CASE Category: 13 – PHYSICS

NAG 3 1932 NORTHWESTERN UNIV 4177
 NONLINEAR RELAXATION AND FLUCTUATIONS IN A NON-EQUILIBRIUM NEAR CRITICAL LIQUID WITH A TEMP GRADIENT
 07/29/1996 – 02/14/2001 FY01: \$8,000 Total: \$252,999
Prin. Invest.: A Z PATASHINSKI, G A ZIMMERLI
Tech. Officer: GRC/B S SINGH
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 2113 NORTHWESTERN UNIV 4178
 COMPLEX DYNAMICS IN MARANGONI CONVECTION WITH ROTATION
 03/04/1998 – 01/03/2002 FY01: \$95,000 Total: \$370,000
Prin. Invest.: H RIECKE
Tech. Officer: GRC/F P CHIARAMONTE
CASE Category: 46 – MECHANICAL ENGR

NAG 3 2209 NORTHWESTERN UNIV 4179
 FILTRATION COMBUSTION FOR MICROGRAVITY APPLICATIONS: (1) SMOLDERING (2) COMBUSTION SYNTHESIS OF A
 11/17/1998 – 11/11/2002 FY01: \$122,500 Total: \$386,500
Prin. Invest.: B J MATKOWSKY
Tech. Officer: GRC/S A GOGOKLU
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 2364 NORTHWESTERN UNIV 4180
 COMPETING INSTABILITIES AND THE SPATIO-TEMPORAL DYNAMICS OF INTERFACIAL WAVE PATTERNS
 03/20/2000 – 11/30/2003 FY01: \$90,250 Total: \$130,250
Prin. Invest.: M SILBER
Tech. Officer: GRC/C E NIEDERHAUS
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 2369 NORTHWESTERN UNIV 4181
 INTERFACIAL DYNAMICS INTERFACIAL DYNAMICS
 04/03/2000 – 11/30/2003 FY01: \$72,451 Total: \$136,583
Prin. Invest.: D H DAVIS
Tech. Officer: GRC/H C DEGROH
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 2474 NORTHWESTERN UNIV 4182
 COARSENING IN SOLID-LIQUID MIXTURES-2 (CSLM-2) COARSENING IN SOLID-LIQUID MIXTURES-2 (CSLM-2)
 07/24/2000 – 11/30/2005 FY01: \$169,074 Total: \$220,470
Prin. Invest.: P W VOORHEES
Tech. Officer: GRC/W B DUVAL
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 2485 NORTHWESTERN UNIV 4183
 ATOMIC-SCALE STUDIES OF EVOLVING MICROSTRUCTURES OF NICKEL-BASED SUPERALLOYS: A GRADUATE TRAINING
 08/22/2000 – 08/31/2001 FY01: \$0 Total: \$25,000
Prin. Invest.: D N SEIDMAN
Tech. Officer: GRC/R D NOEBE
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 2511 NORTHWESTERN UNIV 4184
 MODELING MICROGRAVITY NON-PREMIXED COMBUSTION SYST EMS
 12/07/2000 – 11/15/2004 FY01: \$70,000 Total: \$70,000
Prin. Invest.: D MATALON
Tech. Officer: GRC/K R SACKSTEDER
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 2628 NORTHWESTERN UNIV 4185
 DEVELOPMENT OF HIGH-CONDUCTIVE POLYELECTROLYTES FOR LI BATTERIES
 06/01/2001 – 12/31/2003 FY01: \$90,000 Total: \$90,000
Prin. Invest.: D F SHRIVER
Tech. Officer: GRC/R S BALDWIN
CASE Category: 12 – CHEMISTRY

NAG 5 4354 NORTHWESTERN UNIV 4186
 MARINER 10 COLOR AND ALBEDO OF MERCURY AND THE MOO
 04/24/1997 – 03/31/2001 FY01: \$0 Total: \$181,679
Prin. Invest.: D S ROBINSON
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 5094 NORTHWESTERN UNIV 4187
 THE DEVELOPMENT OF A FOCUSING SYSTEM FOR 40–100 KEV X-RAYS
 11/22/1996 – 03/31/2002 FY01: \$0 Total: \$497,000
Prin. Invest.: M P ULMER
Tech. Officer: GSFC/L W GURKIN
CASE Category: 13 – PHYSICS

NAG 5 7011 NORTHWESTERN UNIV 4188
 THEORETICAL STUDIES OF X-RAY BURSTS IN ACCRETING N EUTRON STARS_ – ATP
 02/18/1998 – 02/14/2001 FY01: \$0 Total: \$211,710
Prin. Invest.: R E TAAM
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 8294 NORTHWESTERN UNIV 4189
 LESSER THARSIS VOLCANOES: STYLES OF ERUPTION AND R ELATIONS TOTHARIS FLOOD VOLCANISM
 02/23/1999 – 03/31/2002 FY01: \$55,000 Total: \$132,200
Prin. Invest.: M S ROBINSON
Tech. Officer: HQ/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 9188 NORTHWESTERN UNIV 4190
 A MULTI-WAVELENGTH STUDY OF THE INNER 50 PC-REGION AT THE GALACTIC GALACTIC CENTER (LTS99)
 03/07/2000 – 03/14/2002 FY01: \$46,907 Total: \$75,425
Prin. Invest.: F YUSEF-ZADEH
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 9272 NORTHWESTERN UNIV 4191
 SMALL-SCALE STRUCTURE IN THE DIFFUSE INTERSTELLAR MEDIUM (LTSa 99)
 03/16/2000 – 03/14/2002 FY01: \$92,183 Total: \$181,895
Prin. Invest.: D MEYER
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 10306 NORTHWESTERN UNIV 4192
 ANDEAN MOUNTAIN BUILDING: AN INTEGRATED TOPOGRAPH IC, GPS, SEISMOLOGICAL AND NUMERICAL STUDY (SENH99)
 01/30/2001 – 03/14/2002 FY01: \$50,000 Total: \$50,000
Prin. Invest.: S STEIN
Tech. Officer: GSFC/H V FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 10323 NORTHWESTERN UNIV 4193
 SMALL-SCALE INTERSTELLAR STRUCTURE TOWARD THE OPEN CLUSTER CHI PERSEI (FUSE 00)
 01/30/2001 – 01/31/2002 FY01: \$71,700 Total: \$71,700
Prin. Invest.: D M MEYER
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 – ASTRONOMY

NAG 5 10324 NORTHWESTERN UNIV 4194
 THE PHYSICAL CHARACTER OF SMALL-SCALE INTERSTELLAR STRUCTURES (FUSE 00)
 01/30/2001 – 01/31/2002 FY01: \$45,100 Total: \$45,100
Prin. Invest.: J T LAUROESCH
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 – ASTRONOMY

NAG 5 10465 NORTHWESTERN UNIV 4195
 ANOMALOUS OXYGEN AND KRYPTON ABUNDANCES IN INTER- STELLAR GAS (FUSE 00)
 03/02/2001 – 02/28/2002 FY01: \$66,200 Total: \$66,200
Prin. Invest.: D M MEYER, NONE
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 – ASTRONOMY

NAG 5 10598 NORTHWESTERN UNIV 4196
 COLLABORATIVE EFFORT BETWEEN NASA AND PROFESSOR ME L ULMER
 03/16/2001 – 03/31/2002 FY01: \$40,000 Total: \$40,000
Prin. Invest.: M ULMER
Tech. Officer: GSFC/W ZHANG
CASE Category: 11 – ASTRONOMY

NAG 5 10847 NORTHWESTERN UNIV 4197
 ALBEDO, COLOR, AND TOPOGRPHIC STUDIES OF THE MOON AND MERCURY
 05/03/2001 – 05/14/2002 FY01: \$31,000 Total: \$31,000
Prin. Invest.: M S ROBINSON
Tech. Officer: GSFC/D SENSKA
CASE Category: 11 – ASTRONOMY

NAG 8 1660 NORTHWESTERN UNIV 4198
 EVOLUTION OF DENDRITE MORPHOLOGY DURING ISOTHERMAL COARS-ENING
 04/24/2000 – 11/30/2003 FY01: \$95,000 Total: \$135,000
Prin. Invest.: J ALKEMPER
Tech. Officer: MSFC/P DOTY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 9 1053 NORTHWESTERN UNIV 4199
 RESEARCH FOR ROTATION MEMBRANE WATER PURIFICATION
 12/10/1998 – 12/14/2001 FY01: \$168,693 Total: \$520,029
Prin. Invest.: R M LUEPTOW
Tech. Officer: JSC/N PACKMAN
CASE Category: 46 – MECHANICAL ENGR

NAG 9 1297 **NORTHWESTERN UNIV** **4200**
 PILOT STUDY: ACOUSTIC ATTENUATION AS A REA-TIME GA SEOUS
 PROCESS CONTROL MONITOR
 05/01/2001 - 04/30/2002 FY01: \$56,758 Total: \$56,758
Prin. Invest.: R M LUEPTOW
Tech. Officer: JSC/D RUSSO
CASE Category: 54 - ENVIRONMENTAL BIOLOGY

NAS 5 98153 **NORTHWESTERN UNIV** **4201**
 CONSTELLATION X-RAY MISSION
 06/22/1998 - 12/15/2001 FY01: \$0 Total: \$120,047
Prin. Invest.: M P ULMER
Tech. Officer: GSFC/J GRADY, GSFC/R MAUK
CASE Category: 46 - MECHANICAL ENGR

NCC 1 01002 **NORTHWESTERN UNIV** **4202**
 NANO-, MICRO- & MACRO-MECHANICS OF NANOREINFORCED POLY-
 MERIC MATERIALS
 12/13/2000 - 08/31/2003 FY01: \$73,467 Total: \$73,467
Prin. Invest.: L C BRINSON, NONE
Tech. Officer: LARC/T S GATES
CASE Category: 47 - METAL & MATERIALS ENGR

NCC 2 1013 **NORTHWESTERN UNIV** **4203**
 PROPHECY: A HIERARCHICAL TOOL FOR MODELING & ANAL YZING
 PARALLEL SCIENTIFIC APPLICATIONS
 01/27/1998 - 09/30/2001 FY01: \$64,847 Total: \$269,931
Prin. Invest.: V E TAYLOR
Tech. Officer: ARC/A GRADY
CASE Category: 22 - COMPUTER SCIENCE

NCC 2 1017 **NORTHWESTERN UNIV** **4204**
 ARTICULATE SOFTWARE FOR SPACE-RELATED OUTREACH ACT IVITIES
 02/05/1998 - 01/31/2000 FY01: \$0 Total: \$222,130
Prin. Invest.: K D FORBUS
Tech. Officer: ARC/M H SHIRLEY
CASE Category: 22 - COMPUTER SCIENCE

NCC 2 1098 **NORTHWESTERN UNIV** **4205**
 AN INVESTIGATION OF THE EFFECTS OF OUTSOURCING MAI NTENANCE
 ON TASK PERFORMANCE
 03/15/1999 - 12/31/2001 FY01: \$123,564 Total: \$295,136
Prin. Invest.: E J CZEPIEL
Tech. Officer: ARC/B G KANKI, ARC/M CONNORS
CASE Category: 69 - PSYCHOLOGY, OTHER

NCC 3 870 **NORTHWESTERN UNIV** **4206**
 SYNTHESIS, MICROSTRUCTURE AND PROPERTIES OF NICKEL ALUMINIDE
 FOAMS
 02/28/2001 - 02/28/2002 FY01: \$49,967 Total: \$49,967
Prin. Invest.: D C DUNAND
Tech. Officer: GRC/M V NATHAL
CASE Category: 47 - METAL & MATERIALS ENGR

NGT 3 52378 **NORTHWESTERN UNIV** **4207**
 GRADUATE STUDENT RESEARCHERS PROGRAM GRADUATE STUDENT
 RESEARCHERS PROGRAM
 06/21/2001 - 08/31/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: D N SEIDMAN
Tech. Officer: GRC/F J MONTEGANI
CASE Category: 49 - ENGINEERING, OTHER

NGT 5 88 **NORTHWESTERN UNIV** **4208**
 DEVELOPMENT OF A MOVING GRID RETARDER FOR SUBMILLI METER
 POLARIMETRY OF SGR B2 (STUDENT: DAVID CHUS
 05/26/1999 - 06/30/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: G NOVAK
Tech. Officer: GSFC/M S BURRELL
CASE Category: 13 - PHYSICS

NGT 5 90 **NORTHWESTERN UNIV** **4209**
 HIGH DETECTION EFFICIENCY PHOTON COUNTERS AT 1064N M AND THEIR
 USE IN A NOVEL QUANTUM IMAGING SCHEME
 06/03/1999 - 08/31/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: P KUMAR
Tech. Officer: GSFC/M S BURRELL
CASE Category: 45 - ELECTRICAL ENGR

NGT 5 50172 **NORTHWESTERN UNIV** **4210**
 KILOHERTZ QPO NATURE AND ORIGINS USING RXTE
 05/22/1998 - 06/30/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: MILLER, D LEE
Tech. Officer: HQ/A NURRIDIN
CASE Category: 13 - PHYSICS

NGT 5 50198 **NORTHWESTERN UNIV** **4211**
 IMPROVED FEM DYNAMIC SUBSTRUCTURING THROUGH WAVE-B ASSED
 JOINT MODELS
 06/18/1998 - 08/31/2001 FY01: \$0 Total: \$60,500
Prin. Invest.: T IGUSA
Tech. Officer: HQ/A NURRIDIN
CASE Category: 46 - MECHANICAL ENGR

NGT 5 50211 **NORTHWESTERN UNIV** **4212**
 STABILITY OF DIFFUSION FLAMES IN MICROGRAVITY
 07/10/1998 - 06/30/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: M MATALON
Tech. Officer: HQ/A NURRIDIN
CASE Category: 49 - ENGINEERING, OTHER

NGT 5 50263 **NORTHWESTERN UNIV** **4213**
 RAPIDLY PROPAGATING BUOYANT FILTRATION COMBUSTION WAVES WITH
 APPLICATIONS TO SMOLDERING & COMBUSTION
 07/09/1999 - 06/30/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: B J MATKOWSKY
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50368 **NORTHWESTERN UNIV** **4214**
 THE EFFECT OF GRAIN BOUNDARIES DURING COARSENING IN SOLID-
 LIQUID MIXTURES_ (STUDENT: DAVID ROW
 06/18/2001 - 08/31/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: P VOORHEES
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 7662 **SOUTHERN ILLINOIS UNIV - CARBONDALE** **4215**
 'COMPREHENSIVE MODELS OF THE NEAR-EARTH MAGNETIC F
 IELD:INTERPRETATION OF THE LITHOSPHER
 09/09/1998 - 09/14/2002 FY01: \$18,500 Total: \$111,000
Prin. Invest.: D RAVAT
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 7771 SOUTHERN ILLINOIS UNIV – CARBONDALE 4216
 GEOLOGIC INTERPRETATION OF SATELLITE ALTITUDE CRUS TAL
 MAGNETIC ANOMALY DATA
 11/12/1998 – 10/31/2001 FY01: \$22,500 Total: \$133,000
Prin. Invest.: D RAVAT
Tech. Officer: GSFC/P T TAYLOR
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 9832 SOUTHERN ILLINOIS UNIV – CARBONDALE 4217
 GEOLOGICAL ANALYSIS IF THE MARTIAN CRUSTAL MAGNETIC ANOMALIES
 07/26/2000 – 07/31/2002 FY01: \$24,000 Total: \$42,000
Prin. Invest.: D RAVAT
Tech. Officer: GSFC/P TAYLOR
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 8 1812 SOUTHERN ILLINOIS UNIV – CARBONDALE 4218
 ANISOTROPIC EFFECT IN LAMINATE COMPOSITES USING LASER HEATING
 05/08/2001 – 10/09/2001 FY01: \$38,000 Total: \$38,000
Prin. Invest.: T CHU
Tech. Officer: MSFC/S RUSSELL
CASE Category: 49 – ENGINEERING, OTHER

NGT 1 01026 SOUTHERN ILLINOIS UNIV – CARBONDALE 4219
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) MY 1/3
 06/12/2001 – 06/30/2004 FY01: \$12,000 Total: \$12,000
Prin. Invest.: J SCOTT
Tech. Officer: LARC/R TRIPATHI, LARC/J WILSON
CASE Category: 41 – AERONAUTICAL ENGR

NGT 5 50321 SOUTHERN ILLINOIS UNIV – CARBONDALE 4220
 ASSESSING MASS WASTING & LANDSLIDE SUSCEPTIBILITY USING GIS &
 REMOTELY SENSED IMAGERY, SANTA CRUZ IS
 08/17/2000 – 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: N PINTER
Tech. Officer: GSFC/M WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 2 6050 UNIV OF CHICAGO 4221
 CONFERENCE: THE DEVELOPMENTAL BASIS OF EVOLUTIONARY CHANGE
 05/25/2001 – 04/30/2002 FY01: \$18,583 Total: \$18,583
Prin. Invest.: N H PATEL
Tech. Officer: ARC/R D MAC-ELROY
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 3228 UNIV OF CHICAGO 4222
 ABUNDANCES AND PHYSICAL CONDITIONS FOR INDIVIDUALS
 INTERSTELLAR CLOUDS
 05/07/1996 – 04/30/2001 FY01: \$0 Total: \$479,600
Prin. Invest.: D E WELTY
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 3687 UNIV OF CHICAGO 4223
 ACCRETION AND OUTFLOW PHENOMENA IN YOUNG STELLAR O
 01/15/1997 – 01/14/2002 FY01: \$100,000 Total: \$557,400
Prin. Invest.: A KONIGL
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3986 UNIV OF CHICAGO 4224
 ISOTOPIC STUDIES OF THE MOON AND METEORITES
 02/26/1997 – 03/31/2001 FY01: \$0 Total: \$1,030,000
Prin. Invest.: D N CLAYTON
Tech. Officer: GSFC/J BOYCE
CASE Category: 12 – CHEMISTRY

NAG 5 4462 UNIV OF CHICAGO 4225
 MILLIMETER APERTURE SYNTHESIS POLARIMETRY AND THE N OF
 PROTO-PLANETARY DISKS
 06/09/1997 – 09/30/2000 FY01: \$0 Total: \$158,776
Prin. Invest.: D E CARLSTROM
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4476 UNIV OF CHICAGO 4226
 CHEMICAL ASPECTS OF THE ORIGIN OF THE SOLAR SYSTEM
 06/09/1997 – 11/30/2001 FY01: \$220,000 Total: \$1,081,000
Prin. Invest.: D GROSSMAN
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 4777 UNIV OF CHICAGO 4227
 PHYSICAL INVESTIGATORS RELATED TO RAIN AND RETRIEV OF RAIN AND
 LATENT HEATING
 06/20/1997 – 06/30/2001 FY01: \$0 Total: \$278,668
Prin. Invest.: R C SRIVASTAVA
Tech. Officer: GSFC/O W THIELE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4953 UNIV OF CHICAGO 4228
 TURBULENT CONVECTION AND ITS ROLE IN ACOUSTIC EMIS
 06/23/1997 – 04/30/2002 FY01: \$45,847 Total: \$364,844
Prin. Invest.: D CATTANEO
Tech. Officer: GSFC/W J WAGNER
CASE Category: 13 – PHYSICS

NAG 5 5072 UNIV OF CHICAGO 4229
 EXPERIMENTS IN HIGH ENERGY ASTROPHYSICS
 05/03/1996 – 05/31/2001 FY01: -\$10,024 Total: \$1,930,000
Prin. Invest.: D MULLER
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 5178 UNIV OF CHICAGO 4230
 STUDY OF A TRANSITION RADIATION DETECTOR FOR THE ACCESS
 MISSION
 03/30/1998 – 06/30/2001 FY01: \$0 Total: \$379,600
Prin. Invest.: S P SWORDY
Tech. Officer: GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 5179 UNIV OF CHICAGO 4231
 ORIGINS OF GALACTIC COSMIC RADIATION: TESTING ALTERNATE MODELS
 WITH RADIOACTIVE & STABLE ISOTOPE
 03/09/1998 – 03/31/2002 FY01: \$0 Total: \$116,000
Prin. Invest.: J A SIMPSON
Tech. Officer: GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 5223 **UNIV OF CHICAGO** **4232**
 GRANT NAG5-5223 - HIGH ENERGY ANTIMATTER TELESCOPE (HEAT) PI
 DR. DIETRICH MULLER
 03/16/1999 - 11/30/2001 FY01: \$105,000 Total: \$485,000
Prin. Invest.: D MULLER
Tech. Officer: GSFC/B A MERRITT
CASE Category: 13 - PHYSICS

NAG 5 5229 **UNIV OF CHICAGO** **4233**
 GRANT NAG5-5229 STUDIES OF THE COSMIC RADIATION AT HIGH ENER-
 GIES PI PROF SWORDY
 03/16/1999 - 11/30/2001 FY01: \$304,000 Total: \$752,000
Prin. Invest.: SWORDY
Tech. Officer: GSFC/B MERRITT
CASE Category: 13 - PHYSICS

NAG 5 5305 **UNIV OF CHICAGO** **4234**
 EXPERIMENTS IN HIGH ENERGY ASTROPHYSICS: THE TRACER PROJECT
 01/09/2001 - 11/30/2001 FY01: \$400,000 Total: \$400,000
Prin. Invest.: D MULLER
Tech. Officer: GSFC/B A MERRITT
CASE Category: 13 - PHYSICS

NAG 5 6405 **UNIV OF CHICAGO** **4235**
 STRUCTURE, KINEMATICS & ABUNDANCES IN LOCAL ISM (L TSA)
 10/10/1997 - 10/14/2001 FY01: \$70,700 Total: \$263,099
Prin. Invest.: P FRISCH
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 6489 **UNIV OF CHICAGO** **4236**
 DEVELOPMENT OF FREQUENCY SELECTIVE BOLOMETERS
 01/15/1998 - 10/31/2001 FY01: \$0 Total: \$339,295
Prin. Invest.: D MEYER
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 - ASTRONOMY

NAG 5 6625 **UNIV OF CHICAGO** **4237**
 WORKSHOP ON INTERSTELLAR DUST IN THE SOLAR SYSTEM
 11/19/1997 - 11/30/2000 FY01: \$0 Total: \$25,000
Prin. Invest.: P D FRISCH
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 - ASTRONOMY

NAG 5 6693 **UNIV OF CHICAGO** **4238**
 THE PRACTICAL AND OBSERVATIONAL INVESTIGATIONS OF LAGRANGIAN-
 MEAN TRACERTRANSPORT IN THE STRATOSPHER
 12/04/1997 - 12/31/2000 FY01: \$0 Total: \$285,882
Prin. Invest.: D NAKAMURA
Tech. Officer: GSFC/C JACKMAN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 6972 **UNIV OF CHICAGO** **4239**
 MASS LOSS KINETICS AND ISOTOPE FRACTIONATION OF MOL TEN CAI
 COMPOSITIONS
 03/13/1998 - 05/31/2001 FY01: \$0 Total: \$100,000
Prin. Invest.: F M RICHTER
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 7077 **UNIV OF CHICAGO** **4240**
 BOUNDARY CONDITIONS OF THE HELIOSPHERE
 02/23/1998 - 04/30/2001 FY01: \$0 Total: \$197,100
Prin. Invest.: P C FRISCH
Tech. Officer: GSFC/J LING
CASE Category: 11 - ASTRONOMY

NAG 5 7163 **UNIV OF CHICAGO** **4241**
 DEVELOPMENT OF A MINIATURIZED LOW-ENERGY SOLAR NEU TRON
 DETECTOR FOR APPLICATION TO NEAR-SUNEXPLORA
 03/12/1998 - 04/14/2001 FY01: \$0 Total: \$109,823
Prin. Invest.: R MCKIBBEN
Tech. Officer: GSFC/W WAGNER
CASE Category: 11 - ASTRONOMY

NAG 5 7212 **UNIV OF CHICAGO** **4242**
 NUCLEOSYNTHETIC ISOTOPIC ANOMALIES
 03/26/1998 - 03/31/2001 FY01: \$0 Total: \$75,000
Prin. Invest.: R CLAYTON
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 7307 **UNIV OF CHICAGO** **4243**
 KINETICS OF VOLATILIZATION OF INTERSTELLAR GRAINS
 04/22/1998 - 03/31/2001 FY01: \$0 Total: \$158,800
Prin. Invest.: L GROSSMAN
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 7731 **UNIV OF CHICAGO** **4244**
 RADIATIVE-DYNAMIC PROBLEMS RELATED TO THE ATMOSPHERE OF
 EARLY MARS
 09/24/1998 - 09/30/2002 FY01: \$70,352 Total: \$219,256
Prin. Invest.: R PIERREHUMBERT
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 - ASTRONOMY

NAG 5 7986 **UNIV OF CHICAGO** **4245**
 GALAXY CLUSTERS AS COSMOLOGICAL PROBES: ANALYSES OF X-RAY,
 LENSING, AND SUNYAEV ZEL'DOVICH MEASUREMENTS
 01/03/1999 - 12/31/2001 FY01: \$126,954 Total: \$381,902
Prin. Invest.: J E CARLSTROM
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8032 **UNIV OF CHICAGO** **4246**
 ASTROPHYSICAL STUDIES WITH IMP SATELLITE DATA
 01/19/1999 - 12/31/2001 FY01: \$100,297 Total: \$240,297
Prin. Invest.: C LOPATE
Tech. Officer: GSFC/J KING
CASE Category: 11 - ASTRONOMY

NAG 5 8163 **UNIV OF CHICAGO** **4247**
 THE JOURNEY OF THE SUN - A VIRTUAL REALITY SIMULATION
 02/08/1999 - 01/31/2002 FY01: \$130,100 Total: \$363,125
Prin. Invest.: P C FRISCH
Tech. Officer: GSFC/P HUNTER
CASE Category: 11 - ASTRONOMY

NAG 5 8539 **UNIV OF CHICAGO** **4248**
 PRIOR GRANT:NAG5-3253 CONTINUATION OF MAP SCIENCE SUPPORT
 ACTIVITIES BEING IMPLEMENTED BY THE MAP
 08/17/1999 - 08/14/2002 FY01: \$212,562 Total: \$307,723
Prin. Invest.: S MEYER
Tech. Officer: GSFC/C BENNETT
CASE Category: 11 - ASTRONOMY

NAG 5 8571 **UNIV OF CHICAGO** **4249**
 PERIODIC, QUASI-PERIODIC, AND BURSTING BEHAVIOR OF NEUTRON
 STAR X-RAY SOURCES
 05/25/1999 - 12/31/1999 FY01: -\$2,790 Total: \$30,973
Prin. Invest.: M MILLER
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8708 **UNIV OF CHICAGO** **4250**
 RADIO INTERFEROMETRIC STUDIES OF COMETS AND ASTEROIDS
 07/20/1999 - 12/31/2001 FY01: \$0 Total: \$60,000
Prin. Invest.: P PALMER
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 - ASTRONOMY

NAG 5 9016 **UNIV OF CHICAGO** **4251**
 PROPOSAL TO THE NASA ESS HPCC PROGRAM
 02/01/2000 - 01/31/2001 FY01: \$0 Total: \$29,335
Prin. Invest.: D OLSON
Tech. Officer: GSFC/D SPICER
CASE Category: 22 - COMPUTER SCIENCE

NAG 5 9063 **UNIV OF CHICAGO** **4252**
 DISK-DRIVEN OUTFLOWS IN ACTIVE GALACTIC NUCLEI - ATP-99
 02/14/2000 - 02/14/2002 FY01: \$62,231 Total: \$119,145
Prin. Invest.: A KONIGL
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9083 **UNIV OF CHICAGO** **4253**
 STATISTICAL METHODOLOGY FOR DETECTION OF OZONE TURNAROUND
 UNDER DIFFERENT DATA CONDITIONS
 02/16/2000 - 02/28/2001 FY01: \$0 Total: \$30,000
Prin. Invest.: G C TIAO
Tech. Officer: GSFC/P K BHARTIA
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9303 **UNIV OF CHICAGO** **4254**
 LABORATORY STUDIES OF HETEROGENEOUS CHEMISTRY IN THE UPPER
 TROPOSPHERE. NRA-97-OASTT-01 DATED JANUARY
 03/22/2000 - 03/31/2002 FY01: \$0 Total: \$76,130
Prin. Invest.: D ABBATT
Tech. Officer: GSFC/R LAWRENCEQ
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9362 **UNIV OF CHICAGO** **4255**
 SUPPORT FOR THE 63RD ANNUAL METEORITICAL SOCIETY MEETING
 CHICAGO, AUGUST 28-SEPTEMBER
 03/30/2000 - 03/31/2001 FY01: \$0 Total: \$23,000
Prin. Invest.: A M DAVIS
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 9378 **UNIV OF CHICAGO** **4256**
 MASS LOSS KINETICS AND ISOTOPE FRACTIONATION OF MOLTEN CAI
 COMPOSITIONS
 04/03/2000 - 03/31/2003 FY01: \$60,000 Total: \$117,000
Prin. Invest.: F RICHTER
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 9510 **UNIV OF CHICAGO** **4257**
 REFRACTORY INCLUSIONS IN CARBONACEOUS CHONDRITES
 04/25/2000 - 04/30/2002 FY01: \$92,000 Total: \$180,000
Prin. Invest.: A M DAVIS
Tech. Officer: GSFC/J BOYCE
CASE Category: 99 - MULTI INTERDISCIPLINARY, OTHER

NAG 5 9583 **UNIV OF CHICAGO** **4258**
 SEARCH FOR NEW VIBRATIONAL AND ELECTRONIC SPECTRA OF MOLECULAR
 IONS OF ASTROPHYSICAL INTEREST
 05/09/2000 - 05/14/2001 FY01: \$0 Total: \$65,940
Prin. Invest.: T OKA
Tech. Officer: GSFC/P CRANE
CASE Category: 11 - ASTRONOMY

NAG 5 9767 **UNIV OF CHICAGO** **4259**
 PATHFINDER ALPHA PROTON X-RAY SPECTROMETER DATA ANALYSIS &
 INTERPRETATION (ID#: 19963)
 06/28/2000 - 06/30/2001 FY01: \$0 Total: \$70,000
Prin. Invest.: T ECONOMOU
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 9800 **UNIV OF CHICAGO** **4260**
 SIDEROPHILE ELEMENT MICROANALYSIS BY LASER ABLATION ICP-MS
 07/14/2000 - 06/30/2002 FY01: \$50,000 Total: \$100,000
Prin. Invest.: M HUMAYUN
Tech. Officer: GSFC/J BOYCE
CASE Category: 99 - MULTI INTERDISCIPLINARY, OTHER

NAG 5 10370 **UNIV OF CHICAGO** **4261**
 ABUNDANCES AND PHYSICAL CONDITIONS IN THE SMC ISM (FUSE 00)
 02/08/2001 - 04/30/2002 FY01: \$64,700 Total: \$64,700
Prin. Invest.: D E WELTY
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 10634 **UNIV OF CHICAGO** **4262**
 ISOTOPIC STUDIES OF THE MOON AND METEORITES
 03/17/2001 - 03/14/2002 FY01: \$170,000 Total: \$170,000
Prin. Invest.: R CLAYTON
Tech. Officer: GSFC/J BOYCE
CASE Category: 12 - CHEMISTRY

NAG 5 10759 **UNIV OF CHICAGO** **4263**
 STUDIES OF GAMMA-RAY BURSTS (LISA 2000)
 04/23/2001 - 04/30/2002 FY01: \$63,000 Total: \$63,000
Prin. Invest.: D Q LAMB
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 10831	UNIV OF CHICAGO	4264	NGT 5 63	UNIV OF CHICAGO	4272
FAST DYNAMOS AND THE ORIGIN OF SMALL SCALE PHOTO SPHERIC FIELDS			USING POP-UP DETECTOR ARRAYS FOR POLARIMETRY		
04/26/2001 - 04/30/2002	FY01: \$107,051	Total: \$107,051	06/04/1998 - 06/30/2001	FY01: \$0	Total: \$66,000
<i>Prin. Invest.:</i> F CATTANEO			<i>Prin. Invest.:</i> R H HILDERBRAND		
<i>Tech. Officer:</i> GSFC/W J WAGNER			<i>Tech. Officer:</i> GSFC/M S BURRELL		
<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER			<i>CASE Category:</i> 13 - PHYSICS		
NAG 5 10840	UNIV OF CHICAGO	4265	NGT 5 86	UNIV OF CHICAGO	4273
CMB AND ITS RELATION TO LARGE-SCALE STRUCTURE (ATP 2000)			MEASUREMENTS OF ANISOTROPY IN THE COSMIC MICROWAVE BACKGROUND WITH THE TOPHAT-SPINNER TELESCOPE/STU		
05/11/2001 - 05/14/2002	FY01: \$68,821	Total: \$68,821	05/20/1999 - 06/30/2002	FY01: \$22,000	Total: \$66,000
<i>Prin. Invest.:</i> W HU			<i>Prin. Invest.:</i> S MEYER		
<i>Tech. Officer:</i> GSFC/R J OLIVERSEN			<i>Tech. Officer:</i> GSFC/M S BURRELL		
<i>CASE Category:</i> 11 - ASTRONOMY			<i>CASE Category:</i> 13 - PHYSICS		
NAG 5 10878	UNIV OF CHICAGO	4266	NGT 5 50173	UNIV OF CHICAGO	4274
COSMIC RAY INTERSTELLAR PROPAGATION (ATP 2000)			X-RAY AND SUNYAEV-ZEL'DOVICH IMAGING OF GALAXY CLUSTERS AS ACOSMOLOGICAL PROBE		
05/08/2001 - 05/31/2002	FY01: \$21,082	Total: \$21,082	05/22/1998 - 08/31/2001	FY01: \$0	Total: \$66,000
<i>Prin. Invest.:</i> J J CONNELL			<i>Prin. Invest.:</i> J E CARLSTROM/REESE		
<i>Tech. Officer:</i> GSFC/R J OLIVERSEN			<i>Tech. Officer:</i> HQ/A NURRIDIN		
<i>CASE Category:</i> 11 - ASTRONOMY			<i>CASE Category:</i> 11 - ASTRONOMY		
NAG 5 11005	UNIV OF CHICAGO	4267	NGT 8 52906	UNIV OF CHICAGO	4275
BOUNDARY CONDITIONS OF THE HELIOSPHERE: FLUCTUATIONS IN NEARBY INTERSTELLAR GAS			CONSTRAINING COSMOLOGY WITH THE CHANGDRA AND XMM OBSERVATORIES		
06/05/2001 - 05/31/2002	FY01: \$79,908	Total: \$79,908	05/25/2001 - 07/01/2004	FY01: \$22,000	Total: \$22,000
<i>Prin. Invest.:</i> P C FRISCH			<i>Prin. Invest.:</i> J CARLSTROM		
<i>Tech. Officer:</i> GSFC/W J WAGNER			<i>Tech. Officer:</i> MSFC/S NASH-STEVENSON		
<i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE			<i>CASE Category:</i> 11 - ASTRONOMY		
NAG 5 11043	UNIV OF CHICAGO	4268	NAG 1 01065	UNIV OF ILLINOIS - CHICAGO CIRCLE	4276
PATHFINDER ALPHA PROTON X-RAY SPECTROMETER DATA ANALYSIS & INTERPRETATION			TELECOLLABORATIVE DESIGN & SIMULATION IN IMMERSIVE VIRTUAL ENVIRONMENT		
06/13/2001 - 05/31/2002	FY01: \$110,000	Total: \$110,000	05/29/2001 - 11/30/2004	FY01: \$61,000	Total: \$61,000
<i>Prin. Invest.:</i> T ECONOMOU			<i>Prin. Invest.:</i> P BANERJEE		
<i>Tech. Officer:</i> GSFC/J M BOYCE			<i>Tech. Officer:</i> LARC/C A SANDRIDGE		
<i>CASE Category:</i> 11 - ASTRONOMY			<i>CASE Category:</i> 46 - MECHANICAL ENGR		
NAG 9 1096	UNIV OF CHICAGO	4269	NAG 2 1172	UNIV OF ILLINOIS - CHICAGO CIRCLE	4277
GENESIS PHASE C/D			DATA INTENSIVE COMPUTING OF HYBRID SYSTEM DATA		
04/02/1999 - 04/11/2002	FY01: \$27,500	Total: \$69,100	01/12/1998 - 12/31/2000	FY01: \$0	Total: \$180,000
<i>Prin. Invest.:</i> M HUMAYYO			<i>Prin. Invest.:</i> R GROSSMAN		
<i>Tech. Officer:</i> JSC/K CYR			<i>Tech. Officer:</i> ARC/G MEYER		
<i>CASE Category:</i> 19 - PHYSICAL SCIENCE, OTHER			<i>CASE Category:</i> 49 - ENGINEERING, OTHER		
NAG 9 1306	UNIV OF CHICAGO	4270	NAG 2 1358	UNIV OF ILLINOIS - CHICAGO CIRCLE	4278
SUPPORT DATA ACQUISITION FROM SPADUS INSTRUMENT			AN ULTRASTRUCTURAL STUDY OF DEVELOPMENT IN VESTIBULAR HAIR CELLS, & THEIR CELLULAR RESPONSES TO HYP		
05/23/2001 - 09/30/2001	FY01: \$29,413	Total: \$29,413	07/23/1999 - 06/30/2002	FY01: \$121,517	Total: \$308,883
<i>Prin. Invest.:</i> A J TUZZOLINO			<i>Prin. Invest.:</i> A LYSAKOWSKI		
<i>Tech. Officer:</i> JSC/E G STANSBERRY			<i>Tech. Officer:</i> ARC/M M AVERNER, ARC/R D MACELROY		
<i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER			<i>CASE Category:</i> 51 - BIOLOGY (EXCLUDING ENVIR)		
NCC 2 1103	UNIV OF CHICAGO	4271	NAG 3 1905	UNIV OF ILLINOIS - CHICAGO CIRCLE	4279
NUMERICAL EXPERIMENTS ON THE DYNAMICS OF GALAXIES			FLUID DYNAMICS AND SOLIDIFICATION OF MOLTEN SOLAR DROPLETS IMPACTING ON A SUBSTRATE IN MICROGRAVITY		
04/01/1999 - 08/31/2001	FY01: \$0	Total: \$5,000	06/10/1996 - 08/25/2000	FY01: \$0	Total: \$358,020
<i>Prin. Invest.:</i> R N MILLER			<i>Prin. Invest.:</i> D POULIKAKOS, NONE		
<i>Tech. Officer:</i> ARC/B F SMITH			<i>Tech. Officer:</i> GRC/W DUVAL		
<i>CASE Category:</i> 11 - ASTRONOMY			<i>CASE Category:</i> 47 - METAL & MATERIALS ENGR		

NAG 3 2450 UNIV OF ILLINOIS - CHICAGO CIRCLE 4280
 DESIGN OF GEAR DRIVES WITH HIGH GEAR RATIO DESIGN OF GEAR
 DRIVES WITH HIGHGEAR RATIO
 06/09/2000 - 09/30/2002 FY01: \$80,000 Total: \$120,000
Prin. Invest.: D L LITVIN
Tech. Officer: GRC/R F HANDSCHUH
CASE Category: 46 - MECHANICAL ENGR

NAG 3 2456 UNIV OF ILLINOIS - CHICAGO CIRCLE 4281
 MOLTEN-METAL DROPLET DEPOSITION ON A MOVING SUBSTRATE IN
 MICROGRAVITY: AIDING THE DEVELOPMENT OF NO
 06/08/2000 - 11/30/2003 FY01: \$78,074 Total: \$116,276
Prin. Invest.: D M MEGARIDIS
Tech. Officer: GRC/W B DUVAL
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 7600 UNIV OF ILLINOIS - CHICAGO CIRCLE 4282
 PARAMETERIZATION OF AN ANSIOTHERMAL VEGETATION
 07/21/1998 - 07/14/2000 FY01: -\$7,866 Total: \$42,140
Prin. Invest.: R D CRAGO
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 9209 UNIV OF ILLINOIS - CHICAGO CIRCLE 4283
 UNIV OF CHICAGO TOPHAT COLLABORATION
 03/16/2000 - 03/14/2001 FY01: \$32,398 Total: \$82,398
Prin. Invest.: S MEYER
Tech. Officer: GSFC/E CHENG
CASE Category: 11 - ASTRONOMY

NAG 5 9427 UNIV OF ILLINOIS - CHICAGO CIRCLE 4284
 ANTARCTIC DRY VALLEY LAKES: ANALOGS OF ANICENT MARTIAN LACUS-
 TRINE SYSTEMS
 04/11/2000 - 04/14/2003 FY01: \$67,200 Total: \$130,502
Prin. Invest.: P DORAN
Tech. Officer: GSFC/M MEYER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10334 UNIV OF ILLINOIS - CHICAGO CIRCLE 4285
 CARRIER LIFE TIME ENHANCEMENT USING HGCDTE/CDZNTTE STRAINED-
 LAYER SUPERLATTICES FOR NEAR ROOM
 01/31/2001 - 12/31/2001 FY01: \$257,233 Total: \$257,233
Prin. Invest.: C GREIN
Tech. Officer: GSFC/R MARTINEAU
CASE Category: 13 - PHYSICS

NAG 5 10398 UNIV OF ILLINOIS - CHICAGO CIRCLE 4286
 HIGH SPEED/HIGH ACCURACY MICRO-MIRRORS FOR ADAPTABLE
 SURFACES AND MULTIPLE SHUTTERS
 02/13/2001 - 01/31/2002 FY01: \$167,383 Total: \$167,383
Prin. Invest.: A FEINERMAN
Tech. Officer: GSFC/M DUTTA
CASE Category: 49 - ENGINEERING, OTHER

NAG 8 1248 UNIV OF ILLINOIS - CHICAGO CIRCLE 4287
 THREE DIMENSIONAL VELOCITY FIELD CHARACTERIZATION IN A
 BRIDGMAN APPARATUS
 04/30/1996 - 04/29/2001 FY01: \$0 Total: \$400,000
Prin. Invest.: S S CHA
Tech. Officer: MSFC/P DOTY, MSFC/R POWER
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1261 UNIV OF ILLINOIS - CHICAGO CIRCLE 4288
 RESEARCH "COMBUSTION SYNTHESIS OF MATERIALS IN MICROGRAVITY"
 04/25/1996 - 04/30/2001 FY01: \$0 Total: \$483,531
Prin. Invest.: K BREZINSKY
Tech. Officer: MSFC/P DOTY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1473 UNIV OF ILLINOIS - CHICAGO CIRCLE 4289
 MICROGRAVITY INVESTIGATION OF DYNAMIC OXYGEN ABSORPTION IN
 MOLTEN SOLDER JETTING
 04/13/1998 - 01/31/2002 FY01: \$95,000 Total: \$358,333
Prin. Invest.: C MEGARIDIS
Tech. Officer: MSFC/C TALLEY
CASE Category: 46 - MECHANICAL ENGR

NAS 3 99189 UNIV OF ILLINOIS - CHICAGO CIRCLE 4290
 DEFECT ENGINEERING & RELIABILITY STUDY OF SIC HIGH-POWER
 DEVICES
 09/09/1999 - 12/31/2000 FY01: \$0 Total: \$260,034
Prin. Invest.: K SHENAI
Tech. Officer: GRC/P J GEORGE
CASE Category: 45 - ELECTRICAL ENGR

NCC 3 655 UNIV OF ILLINOIS - CHICAGO CIRCLE 4291
 EXPERIMENTS AND MODEL DEVELOPMENT FOR INVESTIGATION OF
 SOOTING AND RADIATION EFFECTS IN MICROGRAVITY
 12/29/1998 - 01/04/2003 FY01: \$5,846 Total: \$191,606
Prin. Invest.: Y CHOI
Tech. Officer: GRC/D L URBAN
CASE Category: 49 - ENGINEERING, OTHER

NCC 3 665 UNIV OF ILLINOIS - CHICAGO CIRCLE 4292
 INVESTIGATION OF SOOTING AND RADIATION EFFECTS IN MICROGRAVITY
 DROPLET COMBUSTION USING JAPAN'S JAMI
 02/02/1999 - 01/03/2000 FY01: \$0 Total: \$25,155
Prin. Invest.: M Y CHOI
Tech. Officer: GRC/D L URBAN
CASE Category: 49 - ENGINEERING, OTHER

NCC 3 688 UNIV OF ILLINOIS - CHICAGO CIRCLE 4293
 GRAVITATIONAL EFFECTS ON PARTIALLY-PREMIXED FLAMES GRAVITA-
 TIONAL EFFECTS ON PARTIALLY-PREMIXED FLAME
 03/16/1999 - 03/09/2003 FY01: \$104,500 Total: \$262,508
Prin. Invest.: D K PURI
Tech. Officer: GRC/K R SACKSTEDER
CASE Category: 49 - ENGINEERING, OTHER

NCC 3 694 UNIV OF ILLINOIS - CHICAGO CIRCLE 4294
 THE EXTINCTION OF LOW STRAIN RATE DIFFUSION FLAMES BY AN AGENT
 IN MICROGRAVITY
 03/22/1999 - 03/21/2003 FY01: \$29,211 Total: \$72,476
Prin. Invest.: I K PURI
Tech. Officer: GRC/S L OLSON
CASE Category: 49 - ENGINEERING, OTHER

NGT 5 50155 UNIV OF ILLINOIS - CHICAGO CIRCLE 4295
 MODELLING OF SOOTING AND RADIATION EFFECTS IN DROP SAMUEL
 MANZELLO
 09/11/1997 - 08/31/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: M CHOI
Tech. Officer: HQ/A NURRIDIN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

<p>NGT 5 50214 UNIV OF ILLINOIS - CHICAGO CIRCLE 4296 EXPERIMENTAL INVESTIGATION OF ENVIRONMENT OXYGEN CONTENT IN SOLDER JET TECHNOLOGY (STUDENT: ERIC 07/22/1998 - 07/31/2001 FY01: \$0 Total: \$66,000 Prin. Invest.: C M MEGARIDIS, NONE Tech. Officer: HQ/A NURRIDIN CASE Category: 46 - MECHANICAL ENGR</p>	<p>NAG 2 1282 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4304 INCREMENTAL TRANSFER OF TRAINING EFFECTIVENESS OF AVIATION TRAINING DEVICES 01/13/1999 - 01/31/2002 FY01: \$79,154 Total: \$278,259 Prin. Invest.: H L TAYLOR, G L BRADSHAW, T W EMANUEL Tech. Officer: ARC/I BARSHI CASE Category: 69 - PSYCHOLOGY, OTHER</p>
<p>NAG 1 2221 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4297 EVALUATION INTERACTIONS BETWEEN CHEMICAL AND CLIMATE PROCESSES IN THE TROPOSPHERE & STRATOSPHERE 08/20/1999 - 07/31/2002 FY01: \$57,538 Total: \$168,770 Prin. Invest.: D J WUBBLES Tech. Officer: LARC/G MADDREA, LARC/L R POOLE CASE Category: 31 - ATMOSPHERIC SCIENCE</p>	<p>NAG 2 1406 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4305 QOS PROGRAMMING AND DEVELOPMENT ENVIRONMENT 05/08/2000 - 03/31/2002 FY01: \$100,000 Total: \$200,000 Prin. Invest.: K NAHRSTEDT Tech. Officer: ARC/K A FREEMAN CASE Category: 22 - COMPUTER SCIENCE</p>
<p>NAG 1 01026 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4298 DEFINING THE RELATIONSHIP BETWEEN HUMAN ERROR CLASSES AND TECHNOLOGY INTERVENTION STRATEGIES 02/01/2001 - 12/31/2001 FY01: \$85,076 Total: \$85,076 Prin. Invest.: D A WIEGMANN, E M RANTANEN Tech. Officer: LARC/B J BOLAND CASE Category: 41 - AERONAUTICAL ENGR</p>	<p>NAG 2 1424 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4306 NEXT GENERATION MODELING OF DAMAGE TOLERANCE FOR RISK ASSESSMENT & MITIGATION IN HIGH PERFORMANCE S 07/20/2000 - 07/14/2002 FY01: \$193,858 Total: \$268,858 Prin. Invest.: R H DODDS Tech. Officer: ARC/T L PANONTIN CASE Category: 47 - METAL & MATERIALS ENGR</p>
<p>NAG 1 01035 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4299 DEV OF NANOCRYSTALLINE TiAl ALLOYS FOR SPACE APPLICATIONS 02/21/2001 - 09/30/2001 FY01: \$67,196 Total: \$67,196 Prin. Invest.: R S AVERBACK Tech. Officer: LARC/S J HALES CASE Category: 47 - METAL & MATERIALS ENGR</p>	<p>NAG 3 1926 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4307 PREDICTION OF MACROSCOPIC PROPERTIES IN LIQUID HELIUM FROM COMPUTER SIMULATION 07/19/1996 - 06/08/2001 FY01: \$20,000 Total: \$495,000 Prin. Invest.: D M CEPERLEY, N GOLDENFIELD Tech. Officer: GRC/B S SINGH CASE Category: 13 - PHYSICS</p>
<p>NAG 1 01114 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4300 JOHN C. HOUBOLT PAPERS 08/16/2001 - 08/20/2002 FY01: \$33,560 Total: \$33,560 Prin. Invest.: W J MAHER Tech. Officer: LARC/R E MCKINLEY, LARC/W P GIBERT CASE Category: 41 - AERONAUTICAL ENGR</p>	<p>NAG 3 1988 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4308 A STUDY OF ICE ACCRETION PHYSICS TO IMPROVE THE PREDICTION OF ICE ACCRETION ON AIRCRAFTS 11/15/1996 - 10/31/2000 FY01: \$0 Total: \$294,988 Prin. Invest.: M B BRAGG Tech. Officer: GRC/D N ANDERSON CASE Category: 41 - AERONAUTICAL ENGR</p>
<p>NAG 2 1120 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4301 SEAMLESS DISPLAYS FOR AIRCRAFT LANDING 03/27/1997 - 01/31/2002 FY01: \$93,250 Total: \$387,293 Prin. Invest.: C D WICKENS Tech. Officer: ARC/D C FOYLE CASE Category: 69 - PSYCHOLOGY, OTHER</p>	<p>NAG 3 2122 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4309 FLUID PHYSICS OF FOAM EVOLUTION AND FLOW FLUID PHYSICS OF FOAM EVOLUTION AND FLOW 02/13/1998 - 01/06/2002 FY01: \$119,090 Total: \$400,345 Prin. Invest.: H AREF Tech. Officer: GRC/B S SINGH CASE Category: 46 - MECHANICAL ENGR</p>
<p>NAG 2 1126 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4302 ADVANCEMENTS IN 3-D NUMERICAL MODELING OF DUCTILE FRACTURE 04/11/1997 - 03/31/2001 FY01: \$0 Total: \$584,233 Prin. Invest.: R H DODDS, JR. Tech. Officer: ARC/R W HAMPTON, ARC/J C NEWMAN, JR. CASE Category: 46 - MECHANICAL ENGR</p>	<p>NAG 3 2135 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4310 SMART ICING SYSTEMS SMART ICING SYSTEMS 03/05/1998 - 11/30/2002 FY01: \$445,000 Total: \$1,395,000 Prin. Invest.: M B BRAGG, P G VOUHARIS, N B SURTER Tech. Officer: GRC/T H BOND, GRC/M G PETAPCZUK CASE Category: 41 - AERONAUTICAL ENGR</p>
<p>NAG 2 1250 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4303 APPLICATION/SYSTEM ZOS INNERFACE CAPABILITIES 08/14/1998 - 12/31/1999 FY01: -\$99 Total: \$99,901 Prin. Invest.: K NAHRSTEDT Tech. Officer: ARC/K A FREEMAN, ARC/B H WHITAKER CASE Category: 22 - COMPUTER SCIENCE</p>	<p>NAG 3 2236 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4311 DEVELOPMENT OF GRID TECHNOLOGIES FOR SEMI-AUTOMATED ANALYSIS OF ICING EFFECTS ON AIR FOILS 02/22/1999 - 11/30/2000 FY01: \$0 Total: \$90,000 Prin. Invest.: K D LEE Tech. Officer: GRC/Y K CHOO CASE Category: 41 - AERONAUTICAL ENGR</p>

NAG 3 2263 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4312
 WIDEBAND CDMA FOR A SATCOM BASED AVIONICS NETWORK WIDEBAND
 CDMA FOR A SATCOM BASED AVIONICS NETWORK
 05/03/1999 - 03/31/2002 FY01: \$0 Total: \$108,598
Prin. Invest.: U MADHOW
Tech. Officer: GRC/K S CHUN
CASE Category: 45 - ELECTRICAL ENGR

NAG 3 2271 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4313
 AERODYNAMICS FLOWFIELD CHARACTERIZATION FOR ICING AERODY-
 NAMICS FLOWFIELD CHARACTERIZATION FOR ICING
 06/28/1999 - 12/04/2000 FY01: -\$186 Total: \$87,140
Prin. Invest.: D B BRAGG
Tech. Officer: GRC/H E ADDY
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2314 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4314
 DEVELOPMENT OF A NEW SHAPE OPTIMIZATION TOOL FOR 3 D TRAN-
 SONIC COMPRESSORS BASED ON NAVIER-STOKES PH
 12/30/1999 - 03/31/2002 FY01: \$35,000 Total: \$89,808
Prin. Invest.: K D LEE
Tech. Officer: GRC/E R MCFARLAND
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2516 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4315
 SMOLDER-EDGE-WAVES AND EDGE-FLAMES SMOLDER-EDGE-WAVES
 AND EDGE-FLAMES
 12/22/2000 - 11/30/2004 FY01: \$64,911 Total: \$64,911
Prin. Invest.: J D BUCKMASTER
Tech. Officer: GRC/M C HICKS
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 3 2555 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4316
 RECONFIGURABLE ANTENNAS FOR HIGH DATA RATE MULTI-B EAM
 COMMUNICATION SYSTEMS
 03/01/2001 - 02/28/2004 FY01: \$101,749 Total: \$101,749
Prin. Invest.: D BERNHARD
Tech. Officer: GRC/R R ROMANOFSKY
CASE Category: 45 - ELECTRICAL ENGR

NAG 3 2599 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4317
 DEEP ET CHING OF AIN USING INDUCTIVELY-COUPLED-PLA SMA REAC-
 TIVE ION ETCHING METHOD
 04/27/2001 - 07/31/2001 FY01: \$15,000 Total: \$15,000
Prin. Invest.: I ADESIDAPrin. Invest.: NONE
Tech. Officer: GRC/R S OKOJIE
CASE Category: 12 - CHEMISTRY

NAG 3 2623 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4318
 VIRTUAL ICING RESEARCH TUNNEL VIRTUAL ICING RESEARCH TUNNEL
 05/31/2001 - 05/31/2004 FY01: \$47,780 Total: \$47,780
Prin. Invest.: E LOTH
Tech. Officer: GRC/M G POTAPCZUK
CASE Category: 41 - AERONAUTICAL ENGR

NAG 5 2040 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4319
 EOSDIS VERSION O STANDARD DATA FORMAT SUPPORT
 07/16/1992 - 12/31/2001 FY01: \$889,852 Total: \$3,384,897
Prin. Invest.: M FOLK
Tech. Officer: GSFC/C CARLISLE
CASE Category: 22 - COMPUTER SCIENCE

NAG 5 3661 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4320
 THE LAND SURFACE COMPONENT OF THE CLIMATE SYSTEM:
 12/19/1996 - 08/14/2000 FY01: \$0 Total: \$225,899
Prin. Invest.: P KUMAR
Tech. Officer: GSFC/R D KOSTER, GSFC/E T ENGMAN
CASE Category: 11 - ASTRONOMY

NAG 5 3923 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4321
 RADIATION HYDRODYNAMICS AND THE CHEMICAL
 02/19/1997 - 02/14/2000 FY01: \$0 Total: \$232,980
Prin. Invest.: M L NORMAN
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 4414 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4322
 "MODELING STUDIES TO REDUCE UNCERTAINTIES IN EVALU HSCT
 AIRCRAFT EFFECTS ON THE GLOBAL ATMOSPHERE"
 05/06/1997 - 08/31/2000 FY01: \$0 Total: \$182,681
Prin. Invest.: D J WUEBBLES
Tech. Officer: GSFC/R W STEWART
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 4858 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4323
 REMOTE SENSING OF CANOPY PROPERTIES FOR A FOREST U CO2
 ENRICHMENT
 07/08/1997 - 05/31/2000 FY01: -\$241 Total: \$214,144
Prin. Invest.: D DELUCIA
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 5241 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4324
 A SOUNDING ROCKET INVESTIGATION PI DR. C GARDNER
 02/12/1999 - 02/08/2002 FY01: \$48,056 Total: \$105,690
Prin. Invest.: C GARDNER
Tech. Officer: GSFC/W JOHNSON
CASE Category: 13 - PHYSICS

NAG 5 6836 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4325
 ATMOSPHERIC FORCING OF GREENLAND ICE SHEET
 01/08/1998 - 12/31/2000 FY01: \$0 Total: \$214,785
Prin. Invest.: J WALSH
Tech. Officer: GSFC/S GOGINENI
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7003 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4326
 ENERGETICS OF SUPERNOVA REMNANTS
 02/09/1998 - 07/31/2000 FY01: \$0 Total: \$140,900
Prin. Invest.: Y CHU
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 7152 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4327
 ROTATING AND BINARY NEUTRON STARS IN GENERAL RELAT IVITY - ATP
 03/05/1998 - 03/14/2001 FY01: \$0 Total: \$166,136
Prin. Invest.: S L SHAPIRO
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 7170 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4328
 CHARACTERIZING MULTISCALE INTERACTION OF HYDROLOGI C
 PROCESSES USING MULTISENSOR SATELLITE DATA
 03/30/1998 - 12/31/2000 FY01: \$0 Total: \$113,658
Prin. Invest.: P KUMAR
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7404 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4329
 MODELLING X-RAY CLUSTERS: EVOLUTION AND REALISTIC PHYSICS
 05/15/1998 - 05/31/2001 FY01: \$0 Total: \$51,460
Prin. Invest.: M L NORMAN
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8103 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4330
 ORIGIN OF X-RAY EMISSION FROM PLANETARY NEBULAE-AD P 98
 02/05/1999 - 07/31/2000 FY01: \$0 Total: \$32,000
Prin. Invest.: Y CHU
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8104 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4331
 ORIGIN OF X-RAY EMISSION FROM PLANETARY NEBULAE-AD P 98
 02/05/1999 - 01/31/2001 FY01: \$0 Total: \$78,000
Prin. Invest.: U CHU
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8221 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4332
 "REDUCING UNCERTAINTIES IN UNDERSTANDING THE POTEN TIAL
 EFFECTS OF HSCTAIRCRAFT ON THE GLOBAL ATMO
 02/10/1999 - 02/14/2000 FY01: -\$11,684 Total: \$38,316
Prin. Invest.: D J WUEBBLES
Tech. Officer: GSFC/R W STEWART
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 8418 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4333
 SUPERNOVA FALLBACK AND THE EMERGENCE OF BLACK HOLE S AND
 NEUTRON STARS (ATP 98)
 03/25/1999 - 04/30/2002 FY01: \$81,000 Total: \$189,000
Prin. Invest.: S L SHAPIRO *Prin. Invest.:* NONE
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 8424 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4334
 X-RAY SPECTRA AND VARIABILITY OF ACCRETING NEUTRON STARS-
 ATP- 98
 04/15/1999 - 04/14/2002 FY01: \$201,930 Total: \$298,030
Prin. Invest.: F K LAMB
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8479 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4335
 EARLY EVOLUTION: THE UNIVERSAL ANCESTOR AND ORIGIN OF MODERN
 CELL
 05/04/1999 - 04/30/2002 FY01: \$170,000 Total: \$500,140
Prin. Invest.: G OLSEN
Tech. Officer: GSFC/M MEYER
CASE Category: 11 - ASTRONOMY

NAG 5 8514 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4336
 ISAIA: INTEROPERABLE SYSTEMS FOR ARCHIVAL INFORMA TION ACCESS
 06/10/1999 - 05/31/2001 FY01: \$0 Total: \$39,996
Prin. Invest.: R PLANTE
Tech. Officer: GSFC/J BREDEKAMP
CASE Category: 11 - ASTRONOMY

NAG 5 8521 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4337
 RADIO INTERFEROMETRIC STUDIES OF COMETS & ASTEROID
 06/25/1999 - 06/30/2001 FY01: \$0 Total: \$60,000
Prin. Invest.: L SYNDER
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 - ASTRONOMY

NAG 5 8555 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4338
 MULTISCALE ESTIMATION, ERROR PROPAGATION AND SCALE EFFECTS IN
 THE DYNAMICAL RESPONSE OF SOIL-MOISTUR
 06/21/1999 - 06/30/2001 FY01: \$65,367 Total: \$109,044
Prin. Invest.: P KUMAR
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8569 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4339
 THE WAVES EXPLORER
 05/25/1999 - 08/31/2001 FY01: \$0 Total: \$800,000
Prin. Invest.: G R SWENSON
Tech. Officer: GSFC/M MELLOTT
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 8740 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4340
 SIMULATION OF TURBULENT MIXING AND PROPAGATION OF NUCLEAR
 BURNING IN THESURFACE LAYERS OF ACCRETING
 08/12/1999 - 07/30/2001 FY01: \$0 Total: \$47,000
Prin. Invest.: F LAMB
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8781 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4341
 INTEGRATED BIOMIMETIC SENSORS USING ARTIFICIAL HAIR CELLS
 08/27/1999 - 08/31/2002 FY01: \$137,459 Total: \$309,085
Prin. Invest.: C LIU
Tech. Officer: GSFC/S DAVIDSON
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 8871 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4342
 CORE ANGULAR MOMENTUM & THE IERS COORDINATING CTR/ SUB-CEN-
 TERS ACTIVITYFOR MONITORING GLOBAL GEOPHY
 10/19/1999 - 08/31/2002 FY01: \$0 Total: \$59,200
Prin. Invest.: X SONG
Tech. Officer: GSFC/B F CHAO
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9020 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4343
 INTERFACES IN N51D - FUSE
 02/03/2000 - 02/14/2001 FY01: \$0 Total: \$36,300
Prin. Invest.: Y CHU
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 9180 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4344
 EVOLUTIONARY MODELS OF COLD, MAGNETIZED, INTERSTEL LAR
 CLOUDS (ATP 99)
 03/07/2000 - 03/14/2002 FY01: \$50,566 Total: \$102,076
Prin. Invest.: C F GAMMIE
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 10011 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4345
 HOT GAS IN AND AROUND THE SUPERGIANT SHELL LMC-2
 09/25/2000 - 09/30/2002 FY01: \$16,400 Total: \$49,400
Prin. Invest.: Y CHU
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10037 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4346
 HOT GAS IN WIND BLOWN BUBBLES
 09/27/2000 - 09/30/2002 FY01: \$16,000 Total: \$34,000
Prin. Invest.: Y CHU
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10042 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4347
 NGC 7009: TESTING THE WIND-WIND INTERACTION FORMA TION OF
 PLANETARY NEBULAE
 09/27/2000 - 09/30/2002 FY01: \$16,200 Total: \$33,200
Prin. Invest.: Y CHU
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10072 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4348
 GRAVITY WAVE STUDIES AT ALBUQUERQUE, NM
 10/23/2000 - 10/31/2001 FY01: \$33,600 Total: \$33,600
Prin. Invest.: G R SWENSON
Tech. Officer: GSFC/M MELLOTT
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10182 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4349
 HOT GAS IN PLANETARY NEBULAE FUSE 2000
 01/25/2001 - 01/31/2002 FY01: \$59,700 Total: \$59,700
Prin. Invest.: R A GRUENDL
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 10303 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4350
 MAPPING HOT GAS IN A PRISTINE H, SC II REGION - FUSE - 2000
 01/25/2001 - 01/31/2002 FY01: \$68,100 Total: \$68,100
Prin. Invest.: Y CHU
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 10491 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4351
 RADIO INTERFEROMETRIC IMAGING OF COMETS
 02/27/2001 - 02/28/2002 FY01: \$32,600 Total: \$32,600
Prin. Invest.: L SNYDER
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 - ASTRONOMY

NAG 5 10754 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4352
 GRAVITY WAVES AND AIRGLOW PHASE MEASUREMENTS STUDY
 04/20/2001 - 04/30/2002 FY01: \$49,879 Total: \$49,879
Prin. Invest.: G SWENSON
Tech. Officer: GSFC/F HERREO
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 10781 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4353
 ROTATING AND BINARY STARS IN GENERAL RELATIVITY (A TP 2000)
 04/20/2001 - 04/30/2002 FY01: \$89,315 Total: \$89,315
Prin. Invest.: S L SHAPIRO
Tech. Officer: GSFC/R J OLIVERSON
CASE Category: 11 - ASTRONOMY

NAG 5 10942 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4354
 A TROPOSPHERE/STRATOSPHERE/MESOSPHERE GCM STUDY OF EEP ON
 ATMOSPHERIC CHEMICAL COMPOSITION & TROPOS
 05/15/2001 - 06/30/2002 FY01: \$112,796 Total: \$112,796
Prin. Invest.: M E SCHLESINGER
Tech. Officer: GSFC/J F SPANN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 11011 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4355
 INTERFEROMETRIC OBSERVATIONS OF MID-LATITUDE SPORADIC-E
 RADAR ECHOES ATFT MACON, NC, & A STUDY
 06/07/2001 - 06/14/2002 FY01: \$50,000 Total: \$50,000
Prin. Invest.: E KUDEKI
Tech. Officer: GSFC/R PFAFF
CASE Category: 11 - ASTRONOMY

NAG 5 11016 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4356
 CONTACT BINARY STARS (ATP 2000)
 06/12/2001 - 06/14/2002 FY01: \$41,454 Total: \$41,454
Prin. Invest.: R F WEBBINK
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 11159 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4357
 HOT BUBBLES IN EVOLVED SUPERNOVA REMNANTS
 08/06/2001 - 08/14/2002 FY01: \$22,034 Total: \$22,034
Prin. Invest.: J R DICKEL
Tech. Officer: GSFC/R MUTSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 8 1249 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4358
 ADAPTIVE GRID METHODS FOR PHASE FIELD MODELS OF MICROSTRUC-
 TURE DEVELOPMENT
 04/16/1996 - 08/15/2001 FY01: \$0 Total: \$490,000
Prin. Invest.: J A DANTZIG
Tech. Officer: MSFC/P DOTY, MSFC/R POWER
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1376 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4359
 R/S "PARTICLE INTERACTION POTENTIALS & PROTEIN CRYSTAL QUALITY
 UNDER DR. CHARLES F. ZUKOSKI."
 07/01/1997 - 11/30/2000 FY01: \$0 Total: \$446,000
Prin. Invest.: C F ZOKOSKI
Tech. Officer: MSFC/J R ROGERS, MSFC/J P DOWNEY
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 8 1453 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4360
 MODELS OF MAGNETIC DAMPING FOR BRIDGMAN SEMI- CONDUCTOR
 CRYSTAL GROWTH
 05/20/1998 - 01/31/2002 FY01: \$95,000 Total: \$358,333
Prin. Invest.: J S WALKER
Tech. Officer: MSFC/C TALLEY
CASE Category: 13 - PHYSICS

NAG 8 1471 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4361
 COLLOIDAL STABILITY IN COMPLEX FLUIDS
 04/23/1998 - 01/31/2002 FY01: \$95,000 Total: \$366,333
Prin. Invest.: J A LEWIS
Tech. Officer: MSFC/P M DOTY
CASE Category: 13 - PHYSICS

NAG 8 1657 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4362
 RESEARCH ENTITLED, "PHASE FIELD MODELING OF MICROSTRUCTURE IN
 MICROGRAVITY
 06/14/2000 - 11/30/2003 FY01: \$57,000 Total: \$107,000
Prin. Invest.: J A DANTZIG, N D GOLDFELD
Tech. Officer: MSFC/P DOTY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1705 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4363
 MODELS TO OPTIMIZE THE BENEFITS OF ROTATING MAGNETIC FIELDS
 FOR SEMICONDUCTOR CRYSTAL GROWTH IN SP
 06/09/2000 - 11/30/2002 FY01: \$61,750 Total: \$91,750
Prin. Invest.: J S WALKER
Tech. Officer: MSFC/P DOTY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1751 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4364
 ADVANCED MODELING OF LOW CYCLE FATIGUE CRACK GROWTH IN
 METALS
 10/31/2000 - 10/30/2004 FY01: \$164,500 Total: \$164,500
Prin. Invest.: R H DODDS, JR, P SOFRONIS, K D HJELMSTAD
Tech. Officer: MSFC/B MCGILL, MSFC/G R SWANSON
CASE Category: 49 - ENGINEERING, OTHER

NAG 8 1760 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4365
 PREDICTION OF PROPERTIES LIQUID HELIUM FROM COMPUTER SIMULA-
 TION
 04/26/2001 - 04/30/2005 FY01: \$81,000 Total: \$81,000
Prin. Invest.: D M CEPERLEY
Tech. Officer: MSFC/D HUBBARD
CASE Category: 13 - PHYSICS

NAG 8 1803 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4366
 OPTIMAL TRAJECTORY ANALYSIS FOR FUTURE PROPULSION SYSTEMS
 04/16/2001 - 04/14/2002 FY01: \$49,894 Total: \$49,894
Prin. Invest.: V L COVERSTON
Tech. Officer: MSFC/K SORENSON
CASE Category: 13 - PHYSICS

NAG 9 1371 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4367
 YAW CONTROL OF A LIFTING BODY RE-ENTRY VEHICLE AT HIGH ANGLE
 OF ATTACK
 07/27/2001 - 08/01/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: M BRAGG
Tech. Officer: JSC/R BURTON
CASE Category: 41 - AERONAUTICAL ENGR

NCC 1 309 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4368
 EVAL PEM-TROPICS B OBSERVAT: UNCERTAIN ANALYSES & EFFECTS ON
 DEEP CONVECTIVE MIX'G ON TROPOSPH CHEM
 07/22/1998 - 07/31/2001 FY01: \$1 Total: \$108,369
Prin. Invest.: D WUEBBLER, D WUEBBLES
Tech. Officer: LARC/J L RAPER, LARC/R J BENDURA
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 2 1214 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4369
 COMPUTATIONAL MODEL OF PILOT SITUATION AWARENESS ERRORS
 02/08/2001 - 10/31/2001 FY01: \$55,525 Total: \$55,525
Prin. Invest.: C D WICKENS, J MCCARLEY
Tech. Officer: ARC/B BEARD
CASE Category: 69 - PSYCHOLOGY, OTHER

NCC 2 1230 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4370
 STOCHASTIC ANYTIME SEARCH WITH APPLICATIONS IN AUTONOMOUS
 PLANNING & SCHEDULING
 03/25/2001 - 11/30/2001 FY01: \$75,000 Total: \$75,000
Prin. Invest.: B J WAH
Tech. Officer: ARC/R MORRIS
CASE Category: 22 - COMPUTER SCIENCE

NCC 3 780 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4371
 MICROSTRIP ANTENNAS WITH BROADBAND INTEGRATED PHASE
 SHIFTING
 03/09/2000 - 02/28/2001 FY01: \$0 Total: \$19,536
Prin. Invest.: D BERNHARD
Tech. Officer: GRC/R R ROMANOFSKY
CASE Category: 45 - ELECTRICAL ENGR

NCC 3 852 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4372
 EXPERIMENTAL STUDY OF ICED AIRFOIL AERODYNAMICS
 01/23/2001 - 12/17/2003 FY01: \$122,663 Total: \$122,663
Prin. Invest.: M BRAGG
Tech. Officer: GRC/H E ADDY
CASE Category: 41 - AERONAUTICAL ENGR

NGT 2 52244 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4373
 NON-LINEAR ALFVEN WAVES, AMBIPOLAR DIFFUSION & STARR FORMATION
 08/05/1998 - 12/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: T MOUSCHOVIAS
Tech. Officer: ARC/A BARNES
CASE Category: 11 - ASTRONOMY

NGT 2 52271 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4374
 FUNCTIONALLY GRADED MATERIAL APPLICATIONS TO ADVANCE
 THERMAL PROTECTION SYSTEMS
 09/14/2000 - 09/14/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: G H PAULIN
Prin. Invest.: NONE
Tech. Officer: ARC/T L PANONTIN
CASE Category: 47 - METAL & MATERIALS ENGR

NGT 3 52345 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4375
 GRADUATE STUDENT RESEARCHERS PROGRAM
 07/28/1998 - 08/20/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: J S MOORE
Tech. Officer: GRC/F J MONTEGANI
CASE Category: 43 - CHEMICAL ENGR

NGT 3 52357 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4376
 GRADUATE STUDENT RESEARCH PROGRAM GRADUATE STUDENT
 RESEARCH PROGRAM
 07/15/1999 - 09/30/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: M BRAGGS
Tech. Officer: GRC/F J MONTEGANI
CASE Category: 49 - ENGINEERING, OTHER

NGT 5 84 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4377
 NEW GRANT FOR GSRP STUDENT - DANIEL BULLOK
 05/18/1999 - 06/30/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: P SAYLOR
Tech. Officer: GSFC/G A SOFFEN
CASE Category: 22 - COMPUTER SCIENCE

NGT 5 40030 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4378
 NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA
 12/19/1996 - 01/31/2001 FY01: -\$8,894 Total: \$1,820,987
Prin. Invest.: W C SOLOMON
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40073 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4379
 ILLINOIS SPACE GRANT COLLEGE & FELLOWSHIP PROGRAM
 02/09/2001 - 01/31/2002 FY01: \$483,894 Total: \$483,894
Prin. Invest.: W C SOLOMON, NONE
Tech. Officer: GSFC/D D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50228 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4380
 SOFTWARE-IMPLEMENTED ADAPTIVE FAULT TOLERANCE THRO UGH
 DYNAMICALLYRECONFIGURABLE AGENTS
 10/29/1998 - 08/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: R K IYER
Tech. Officer: HQ/S MCGEE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50238 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4381
 CAPILLARY ELECTROKINETIC TRANSPORT FOR CONVEYING SAMPLE TO
 ANALYTICAL INSTRUMENTATION: DESIGN, DEV
 05/28/1999 - 06/30/2000 FY01: -\$1,327 Total: \$20,673
Prin. Invest.: A SCHEELINE
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50326 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4382
 BIOGEOCHEMICAL CYCLES & CLIMATE CHANGE; POTENTIAL FEEDBACKS
 & INTERACTIONS/STUDENT: VAISHALI NAIK
 08/17/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: D WUEBBLES
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 50343 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4383
 NUMERICAL STUDIES OF GENERAL RELATIVISTIC MAGNETO- HYDRODY-
 NAMICS AS APPLIED TO ACTIVE GALACTIC NUCLE
 05/14/2001 - 06/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: R GAMMIE
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 9 33 UNIV OF ILLINOIS AT URBANA-CHAMPAIGN 4384
 TRAINING GRANT
 06/04/1998 - 08/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: S R WHITE
Tech. Officer: JSC/D G SICKOREZ
CASE Category: 42 - ASTRONAUTICAL ENGR

INDIANA

NAG 5 11261 BALL STATE UNIV 4385
 INNOVATIVE USES OF HYPERSPECTRAL IMAGERY FOR MONI TORING
 SPATIALLY DISTRIBUTED ECOSYSTEM
 08/27/2001 - 08/31/2004 FY01: \$63,111 Total: \$63,111
Prin. Invest.: A F RAHMAN
Tech. Officer: GSFC/D WICKLAND
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 3 2588 INDIANA STATE UNIV 4386
 NANOSTRUCTURED SINGLE-ION SOLID POLYMER ELECTROLYT ES FOR
 LITHIUM BATTERIES
 04/30/2001 - 06/30/2004 FY01: \$95,000 Total: \$95,000
Prin. Invest.: D W ZWANZIGER
Tech. Officer: GRC/D BRITTON
CASE Category: 12 - CHEMISTRY

NAG 3 2207 INDIANA UNIV.-PURDUE U. AT INDIANAPOLIS 4387
 LOW-EMISSION SELF-COOLED COMBUSTION WAVE ROTOR LOW-EMIS-
 SION SELF-COOLED COMBUSTION WAVE ROTOR
 11/13/1998 - 06/30/2001 FY01: \$0 Total: \$53,078
Prin. Invest.: R NALIM
Tech. Officer: GRC/D E PAXON
CASE Category: 46 - MECHANICAL ENGR

NAG 3 2260 INDIANA UNIV.-PURDUE U. AT INDIANAPOLIS 4388
 IMPLEMENTATION OF LOAD BALANCING TECHNIQUES FOR PA RALLEL
 COMPUTATIONS WITH DISTRIBUTED SYSTEMS
 04/20/1999 - 09/30/2001 FY01: \$110,000 Total: \$259,278
Prin. Invest.: A ECER
Tech. Officer: GRC/T BABRAUCKAS
CASE Category: 22 - COMPUTERSCIENCE

NAG 3 2325 INDIANA UNIV.-PURDUE U. AT INDIANAPOLIS 4389
 WAVE FAN AND HYBRID PULSE DETONATION ENGINE WAVE FAN AND
 HYBRID PULSE DETONATION ENGINE
 02/03/2000 - 02/28/2001 FY01: \$0 Total: \$61,426
Prin. Invest.: D NALIM
Tech. Officer: GRC/G E WELSH
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2399 INDIANA UNIV.-PURDUE U. AT INDIANAPOLIS 4390
 NEW COMPUTATIONAL METHOD FOR MASSIVELY PARALLEL CO MPUTA-
 TIONAL FLUID DYNAMICS
 04/19/2000 - 05/23/2002 FY01: \$28,975 Total: \$122,772
Prin. Invest.: D HSU
Tech. Officer: GRC/M LIU
CASE Category: 41 - AERONAUTICAL ENGR

NAG 8 1586 INDIANA UNIV.-PURDUE U. AT INDIANAPOLIS 4391
 SELF RENEWAL REPLICATION OF HEMATOPOIETIC STEM CELLS IN
 MICROGRAVITY
 03/01/1999 - 11/30/2002 FY01: \$165,300 Total: \$465,300
Prin. Invest.: C M TRAYCOFF
Tech. Officer: MSFC/B GUYNES
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NGT 5 50203 INDIANA UNIV.-PURDUE U. AT INDIANAPOLIS 4392
 PARATHYROID HORMONE MODULATES THE RESPONSE OF OSTE OBLAST-
 LIKE CELLS TO MECHANICAL STIMULATION
 07/01/1998 - 06/30/2001 FY01: \$0 Total: \$39,600
Prin. Invest.: R L DUCN
Tech. Officer: HQ/A NURRIDIN
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NGT 5 50291 INDIANA UNIV.-PURDUE U. AT INDIANAPOLIS 4393
 EFFECTS OF INTEGRIN-EXTRACELLULAR MATRIX ADHESION IN FLUID
 SHEAR-INDUCED PROSTAGLAND IN METABOLISM
 07/06/2000 - 06/30/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: F PAVALKO, NONE
Tech. Officer: GSFC/L SMITH
CASE Category: 59 - LIFE SCIENCE, OTHER

NGT 5 50366 INDIANA UNIV.-PURDUE U. AT INDIANAPOLIS 4394
 ACTIVATION, ADAPTATION AND RESTORATION OF THE MECH ANICAL
 RESPONSE OF OSTE OBLASTS TO FLUID SHEAR/STU
 06/12/2001 - 06/30/2002 FY01: \$20,400 Total: \$20,400
Prin. Invest.: R DUNCAN
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50373 INDIANA UNIV.-PURDUE U. AT INDIANAPOLIS 4395
 CAPILLARY FRACTAL PERFUSION PATTERNS MAY PROTECT THE LUNG
 DURING MICROGRAVITY/STUDENT:ERIC JARYSZAK
 06/26/2001 - 06/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: W WAGNER, NONE
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 2 1449 INDIANA UNIV - BLOOMINGTON 4396
 HYPERGRAVITY EFFECTS ON THE MATERNAL-FETAL SYSTEM
 10/19/2000 - 10/14/2001 FY01: \$23,740 Total: \$23,740
Prin. Invest.: J R ALBERTS
Tech. Officer: ARC/A E RONCA, ARC/E M HOLTON
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 5 4295 INDIANA UNIV - BLOOMINGTON 4397
 3D SIMULATIONS OF GRAVITATIONAL INSTABILITIES IN P PROTOSTELLAR
 DISKS
 04/04/1997 - 06/30/2002 FY01: \$53,000 Total: \$183,000
Prin. Invest.: D H DURISEN
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 5167 INDIANA UNIV - BLOOMINGTON 4398
 GPS MEASUREMENTS OF LOCALIZED DEFORMATION IN THE T
 07/17/1997 - 07/14/2001 FY01: \$0 Total: \$81,000
Prin. Invest.: M W HAMBURGER
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 5224 INDIANA UNIV - BLOOMINGTON 4399
 HEAT HIGH ENERGY ANTIMATTER TELESCOPE PI PROF. JAMES MUSSER
 02/03/1999 - 11/30/2001 FY01: \$100,000 Total: \$419,200
Prin. Invest.: J MUSSER
Tech. Officer: WFF/B MERRIT
CASE Category: 11 - ASTRONOMY

NAG 5 6773 INDIANA UNIV - BLOOMINGTON 4400
 COBE AND THE STRUCTURE OF THE GALACTIC INTERSTELLA R MEDIUM
 01/22/1998 - 01/31/2002 FY01: \$0 Total: \$125,600
Prin. Invest.: STEIMAN-CAMERON
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 7619 INDIANA UNIV - BLOOMINGTON 4401
 FUNDING FOR "LITHOSPHERIC RHEOLOGY AND GEODYNAMIC
 PROCESSES FROM INTEGRATION OF GEODETIC, GRAVITY AN
 07/24/1998 - 09/30/2001 FY01: \$0 Total: \$100,000
Prin. Invest.: M W HAMBURGER
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 8582 INDIANA UNIV - BLOOMINGTON 4402
 GPS MEASUREMENT OF CRUSTAL DEFORMATION AT TAAL VOLCA NO, PHILLI-
 PINES
 06/08/1999 - 12/14/2000 FY01: \$0 Total: \$20,000
Prin. Invest.: M W HAMBURGER
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 9236 INDIANA UNIV - BLOOMINGTON 4403
 FUSE OBSERVATIONS OF GALACTIC AND LMC NOVAE IN OUT BURST -
 FUSE
 03/09/2000 - 03/14/2002 FY01: \$0 Total: \$27,330
Prin. Invest.: S SHORE
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 9369 INDIANA UNIV - BLOOMINGTON 4404
 PETROLOGIC EVOLUTION OF LUNAR AND METEORITE PARENT BODY
 REGOLITH
 04/03/2000 - 03/31/2001 FY01: \$0 Total: \$14,000
Prin. Invest.: A BASU
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 9852 INDIANA UNIV - BLOOMINGTON 4405
 MEETING IN THE MIDDLE: THE CHALLENGE OF MESO-LEVEL INTEGRATION
 08/07/2000 - 07/31/2001 FY01: \$0 Total: \$16,000
Prin. Invest.: E F MORAN
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10459 INDIANA UNIV - BLOOMINGTON 4406
 PETROLOGIC EVOLUTION OF LUNAR & METEORITE PARENT BODY REGO-
 LITH
 02/21/2001 - 02/28/2002 FY01: \$20,458 Total: \$20,458
Prin. Invest.: A BASU
Tech. Officer: GSFC/J BOYCE
CASE Category: 12 - CHEMISTRY

NAG 8 1770 **INDIANA UNIV - BLOOMINGTON** **4407**
 THEORETICAL STUDIES OF LORENTZ AND CPT SYMMETRY
 05/01/2001 - 08/31/2005 FY01: \$48,000 Total: \$48,000
Prin. Invest.: V A KOSTELECKY
Tech. Officer: MSFC/D HUBBARD
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAS 9 01103 **INDIANA UNIV - BLOOMINGTON** **4408**
 CYCLOTRON FACILITY-HIGH ENERGY RADIATION EFFECTS TESTING
 06/27/2001 - 09/28/2001 FY01: \$1,524,477 Total: \$1,524,477
Prin. Invest.: J CAMERON, NONE
Tech. Officer: JSC/W CULPEPPER
CASE Category: 49 - ENGINEERING, OTHER

NAS 9 98121 **INDIANA UNIV - BLOOMINGTON** **4409**
 RADIATION TESTING & ANALYTICAL SUPPORT SERVICES
 09/03/1998 - 09/02/2000 FY01: \$0 Total: \$150,250
Prin. Invest.: C FOSTER
Tech. Officer: JSC/W CULPEPPER
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NCC 2 1035 **INDIANA UNIV - BLOOMINGTON** **4410**
 CASE-BASED CAPTURE & REUSE OF AEROSPACE DESIGN RATIONALE
 05/07/1998 - 07/31/2001 FY01: \$0 Total: \$392,092
Prin. Invest.: D B LEAKE
Tech. Officer: ARC/M E LIVINGSTON, ARC/W VAN DALSEM
CASE Category: 22 - COMPUTER SCIENCE

NCC 2 1216 **INDIANA UNIV - BLOOMINGTON** **4411**
 INTEGRATED INTELLIGENT SUPPORT FOR KNOWLEDGE CAPTURE,
 REFINEMENT AND SHARING
 03/08/2001 - 02/28/2002 FY01: \$148,000 Total: \$148,000
Prin. Invest.: D B LEAKE
Tech. Officer: ARC/M G SHAFTO, ARC/W J CLANCEY
CASE Category: 22 - COMPUTER SCIENCE

NCC 5 334 **INDIANA UNIV - BLOOMINGTON** **4412**
 HUMAN AND PHYSICAL DIMENSIONS OF LAND USE/COVER CHANGE IN
 ANAZONIA: FOREST REGENERATION AND LANDSCAPE
 06/16/1998 - 12/31/2001 FY01: \$90,090 Total: \$571,929
Prin. Invest.: E MORAN
Tech. Officer: GSFC/D DEERING
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 1 01009 **INDIANA UNIV - BLOOMINGTON** **4413**
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) MY 1/3
 06/05/2001 - 06/30/2004 FY01: \$12,000 Total: \$12,000
Prin. Invest.: S D JOHNSON
Tech. Officer: LARC/P S MINER
CASE Category: 22 - COMPUTER SCIENCE

NCC 3 873 **MANCHESTER COLLEGE** **4414**
 INTERCALATION OF GRAPHITE FIBERS FOR SPACE POWER APPLICATIONS
 03/13/2001 - 02/20/2002 FY01: \$15,668 Total: \$15,668
Prin. Invest.: G W CLARK
Tech. Officer: GRC/C HUNG
CASE Category: 45 - ELECTRICAL ENGR

NAG 1 2109 **PURDUE UNIV** **4415**
 LASER SPOT HEATING SYSTEM FOR TRANSITION DETECTION IN CRYO-
 GENIC WIND TUNNELS
 09/14/1998 - 06/30/2000 FY01: -\$262 Total: \$99,738
Prin. Invest.: J P SULLIVAN, NONE
Tech. Officer: LARC/B T UPCHURCH, LARC/C J OBARA
CASE Category: 41 - AERONAUTICAL ENGR

NAG 1 2119 **PURDUE UNIV** **4416**
 GENETIC ALGORITHM APPROACHES FOR ACTUATOR PLACEMENT
 12/09/1998 - 06/30/2000 FY01: -\$62 Total: \$20,519
Prin. Invest.: W A CROSSLEY
Tech. Officer: LARC/S L PADULA
CASE Category: 41 - AERONAUTICAL ENGR

NAG 1 2262 **PURDUE UNIV** **4417**
 ACTUATOR PLACEMENT VIA GENETIC ALGORITHM FOR AIRCRAFT
 MORPHING
 01/19/2000 - 03/31/2001 FY01: -\$46 Total: \$29,954
Prin. Invest.: W A CROSSLEY
Tech. Officer: LARC/S L PADULA, LARC/J L ROGERS
CASE Category: 41 - AERONAUTICAL ENGR

NAG 1 01027 **PURDUE UNIV** **4418**
 MECHANISMS OF BOUNDARY-LAYER TRANSITION ON RESURFACED LAUNCH
 VEHICLES
 02/05/2001 - 01/31/2002 FY01: \$50,000 Total: \$50,000
Prin. Invest.: S P SCHNEIDER
Tech. Officer: LARC/S A BERRY, LARC/J N MOSS
CASE Category: 41 - AERONAUTICAL ENGR

NAG 1 01073 **PURDUE UNIV** **4419**
 MODELING OF NANO MATERIALS MY 1/3
 05/09/2001 - 12/31/2003 FY01: \$80,000 Total: \$80,000
Prin. Invest.: C T SUN
Tech. Officer: LARC/T S GATES
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 1 01083 **PURDUE UNIV** **4420**
 AUTONOMOUS NAVIGATION FOR ALTERNATE ACCESS TO THE INTERNATIONAL
 SPACE STATION
 05/18/2001 - 05/17/2003 FY01: \$49,283 Total: \$49,283
Prin. Invest.: J L GARRISON
Tech. Officer: LARC/J ANTOL
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 1 01115 **PURDUE UNIV** **4421**
 DESIGN METHODS AND OPTIMIZATION FOR MORPHING AIRCRAFT
 08/15/2001 - 08/14/2004 FY01: \$20,000 Total: \$20,000
Prin. Invest.: W A CROSSLEY, T A WEISSHAAR
Tech. Officer: LARC/S L PADULA, LARC/J L ROGERS
CASE Category: 41 - AERONAUTICAL ENGR

NAG 2 1344 **PURDUE UNIV** **4422**
 A GRAVIRESPONSIVE TIME-KEEPING PROTEIN OF THE PLANT & ANIMAL
 CELL SURFACE
 07/21/1999 - 07/31/2002 FY01: \$241,842 Total: \$500,234
Prin. Invest.: D J MORRE
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 2 1389 **PURDUE UNIV** **4423**
 ELUCIDATING THE MECHANISM OF MECHANICAL-STRESS INHIBITION OF PLANT GROWTH
 12/21/1999 - 06/30/2002 FY01: \$20,000 Total: \$41,407
Prin. Invest.: C MITCHELL
Tech. Officer: ARC/R MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 2 1403 **PURDUE UNIV** **4424**
 AERODYNAMIC SHAPE AND STRUCTURAL TOPOLOGY DESIGN OF ROTOR CROSS SECTIONS USING A GENETIC ALGORITHM
 04/20/2000 - 06/30/2001 FY01: \$0 Total: \$29,999
Prin. Invest.: W A CROSSLEY
Tech. Officer: ARC/S B KOTTAPALLI
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 1730 **PURDUE UNIV** **4425**
 3-D UNSTEADY AERODYNAMICS AND AEROELASTICITY OF ADVANCED TURBOPROPS
 02/01/1995 - 06/30/2001 FY01: \$33,200 Total: \$533,235
Prin. Invest.: S FLEETER
Tech. Officer: GRC/D H BUFFUM
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2095 **PURDUE UNIV** **4426**
 ON THE DEVELOPMENT OF SUPERSONIC JET NOISE PREDICTION METHODOLOGY
 12/22/1997 - 11/30/2001 FY01: \$0 Total: \$104,186
Prin. Invest.: A S LYRINTZIS
Tech. Officer: GRC/J R SCOTT
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2169 **PURDUE UNIV** **4427**
 FORCED RESPONSE PREDICTIONS OF TURBOMACHINERY BLADE ROWS
 05/29/1998 - 08/01/2000 FY01: \$0 Total: \$62,732
Prin. Invest.: S FLEETER
Tech. Officer: GRC/D C JANETZKE
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2217 **PURDUE UNIV** **4428**
 SCRAMJET SCALING AND INTERACTIONS TESTING SCRAMJET SCALING AND INTERACTIONS TESTING
 12/15/1998 - 11/30/2001 FY01: \$0 Total: \$191,080
Prin. Invest.: S MURTHY, NONE
Tech. Officer: GRC/S R THOMAS
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2246 **PURDUE UNIV** **4429**
 THE 14TH SYMPOSIUM ON AIR BREATHING ENGINES THE 14TH SYMPOSIUM ON AIR BREATHING ENGINES
 03/22/1999 - 09/30/2000 FY01: \$0 Total: \$5,100
Prin. Invest.: S MURTHY
Tech. Officer: GRC/M THARP
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2336 **PURDUE UNIV** **4430**
 INVESTIGATION OF CRITICAL HEAT FLUX IN REDUCED GRAVITY USING PHOTOMICROGRAPHIC TECHNIQUES
 02/22/2000 - 11/30/2003 FY01: \$76,000 Total: \$116,000
Prin. Invest.: I MUDAWAR
Tech. Officer: GRC/M HANSAN
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2413 **PURDUE UNIV** **4431**
 MHD BYPASS ENERGY CYCLE FOR JET ENGINE MHD BYPASS ENERGY CYCLE FOR JET ENGINE
 06/28/2000 - 12/31/2001 FY01: \$40,000 Total: \$70,000
Prin. Invest.: S MURTHY
Tech. Officer: GRC/I BLANKSON
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2453 **PURDUE UNIV** **4432**
 TECHNICAL SUPPORT FOR THE PUBLICATION OF THE AEROSPACE STRUCTURAL METALS HANDBOOK #ODF01
 06/07/2000 - 03/31/2001 FY01: \$0 Total: \$10,000
Prin. Invest.: C GIBSON
Tech. Officer: GRC/J REAGAN
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 3 2532 **PURDUE UNIV** **4433**
 THE 15TH INTERNATIONAL SYMPOSIUM ON AIR BREATHING ENGINES (ISABE)
 01/24/2001 - 06/30/2002 FY01: \$5,100 Total: \$5,100
Prin. Invest.: S MURTHY
Tech. Officer: GRC/M THARP
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2536 **PURDUE UNIV** **4434**
 THREE-DIMENSIONAL UNSTEADY AERODYNAMICS AND AEROELASTICITY OF ADVANCED TURBOPROPS
 03/01/2001 - 02/28/2002 FY01: \$46,000 Total: \$46,000
Prin. Invest.: D FLEETER
Tech. Officer: GRC/E MCFARLAND
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2550 **PURDUE UNIV** **4435**
 ROBUST SATELLITE COMMUNICATIONS FOR AIR TRAFFIC CONTROL SPSS #D135
 02/27/2001 - 09/30/2001 FY01: \$60,000 Total: \$60,000
Prin. Invest.: D S LEHNERT
Tech. Officer: GRC/K CHUN
CASE Category: 45 - ELECTRICAL ENGR

NAG 3 2635 **PURDUE UNIV** **4436**
 A LASER SCANNING PSP/TSP SYSTEM FOR PROPULSION APPLICATIONS
 06/20/2001 - 06/30/2002 FY01: \$49,242 Total: \$49,242
Prin. Invest.: D P SULLIVAN
Tech. Officer: GRC/T BENCIC
CASE Category: 41 - AERONAUTICAL ENGR

NAG 5 3975 **PURDUE UNIV** **4437**
 RESEARCH ON METHODS FOR ANALYSIS OF MULTI-SPECTRAL DATA
 02/26/1997 - 01/31/2000 FY01: -\$9 Total: \$535,671
Prin. Invest.: D A LANGREBE
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 3992 **PURDUE UNIV** **4438**
 THE ANALYSIS AND PARAMETERIZATION OF SHORTWAVELENGTH ATMOSPHERES
 02/26/1997 - 05/31/2002 FY01: \$0 Total: \$296,000
Prin. Invest.: D HARSHVARDHAN
Tech. Officer: GSFC/K H BERGMAN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 4304 **PURDUE UNIV** **4439**
 CHEMICAL STUDIES OF METEORITES
 04/14/1997 - 02/28/2001 FY01: \$0 Total: \$330,000
Prin. Invest.: D E LIPSCHUTZ
Tech. Officer: GSFC/D NAVA
CASE Category: 11 - ASTRONOMY

NAG 5 6971 **PURDUE UNIV** **4440**
 MACHINE LEARNING TO IMPROVE LAND COVER CLASSIFICATIONS FROM
 MULTISENSOR AND MULTITEMPORAL DATA
 03/12/1998 - 02/28/2001 FY01: \$0 Total: \$81,113
Prin. Invest.: C E BRODLEY
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7387 **PURDUE UNIV** **4441**
 A SEARCH FOR PULSATIONS IN HMXB SYSTEMS
 05/07/1998 - 05/31/2000 FY01: -\$86 Total: \$9,081
Prin. Invest.: J P FINLEY
Tech. Officer: GSFC/J SWANK
CASE Category: 11 - ASTRONOMY

NAG 5 7388 **PURDUE UNIV** **4442**
 THE ORBITAL DECAY RATE AND SYSTEM PARAMETERS OF 4U 1700-37
 05/07/1998 - 05/31/2000 FY01: -\$121 Total: \$8,379
Prin. Invest.: J P FINLEY
Tech. Officer: GSFC/J SWANK
CASE Category: 11 - ASTRONOMY

NAG 5 7727 **PURDUE UNIV** **4443**
 QUANTIFYING THE INDIRECT RADIATIVE FORCING OF SULFATE AEROSOLS BY A HYBRID TECHNIQUE.
 10/21/1998 - 10/14/2001 FY01: \$89,000 Total: \$284,508
Prin. Invest.: H HARSHVARDHAN
Tech. Officer: GSFC/M I MISHCHENKO
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7741 **PURDUE UNIV** **4444**
 OPTIMIZATION OF THE GODDARD PROFILING (GPROF) ALGORITHM FOR
 SUBTROPICAL AND EXTRATROPICAL RAINFALL
 10/28/1998 - 08/14/2000 FY01: -\$34,641 Total: \$112,339
Prin. Invest.: G W PETTY
Tech. Officer: GSFC/R W LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7954 **PURDUE UNIV** **4445**
 INCREASING PUBLIC BENEFITS OF EXISTING NASA EARTH SCIENCES
 DATA: MULTI-PURPOSE APPLICATIONS IN AN
 12/31/1998 - 10/31/2000 FY01: -\$7,582 Total: \$152,418
Prin. Invest.: B A ENGEL
Tech. Officer: GSFC/A TUYAHOV
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8155 **PURDUE UNIV** **4446**
 LABORATORY STUDIES OF DIACETYLENE AND CYANOACETYLENE
 PHOTOCHEMISTRY: ROUTES TO COMPLEX MOLECULES
 02/17/1999 - 05/31/2002 FY01: \$96,000 Total: \$324,406
Prin. Invest.: T ZWIER
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 - ASTRONOMY

NAG 5 9098 **PURDUE UNIV** **4447**
 LONG-TERM X-RAY VARIABILITY OF CYG X-1: ORBITAL MODULATION,
 INTENSITY DIPS, FLARES, STATE TRANSIT
 02/18/2000 - 02/28/2002 FY01: \$0 Total: \$19,999
Prin. Invest.: W CUI
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9822 **PURDUE UNIV** **4448**
 A COMPARISON OF THE IMPACT OF PRECIPITATION ON THE TROPICAL
 PACIFIC & NORTH INDIAN OCEAN MIXED LAYER
 07/24/2000 - 11/30/2001 FY01: \$171,500 Total: \$194,194
Prin. Invest.: C A CLAYTON
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9998 **PURDUE UNIV** **4449**
 RELATIVISTIC ASTROPHYSICS IN BLACK HOLE & LOW-MASS NEUTRON
 STAR X-RAY BINARIES - LISA98
 09/21/2000 - 01/31/2002 FY01: \$52,149 Total: \$105,317
Prin. Invest.: W CUI
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 10061 **PURDUE UNIV** **4450**
 AN EXPERIMENTAL ECONOMIC ANALYSIS OF NASA'S MISSION ACQUISITION
 PROCESS
 10/31/2000 - 10/31/2001 FY01: \$140,000 Total: \$140,000
Prin. Invest.: C NOUSSAIR
Tech. Officer: GSFC/P ULRICH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10262 **PURDUE UNIV** **4451**
 FORMATION & EARLY EVOLUTION OF THE SOLAR SYSTEM
 01/09/2001 - 12/31/2001 FY01: \$22,400 Total: \$22,400
Prin. Invest.: B PICKETT
Tech. Officer: GSFC/D SENSKE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10422 **PURDUE UNIV** **4452**
 CHEMICAL STUDIES OF METEORITES
 02/15/2001 - 02/28/2002 FY01: \$80,000 Total: \$80,000
Prin. Invest.: M LIPSCHUTZ
Tech. Officer: GSFC/JBOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 10735 **PURDUE UNIV** **4453**
 PROBING PREBIOTIC PROCESSES WITH PEPTIDE SELF REPLICATION
 04/19/2001 - 04/30/2002 FY01: \$130,000 Total: \$130,000
Prin. Invest.: J A CHMIELEWSKI
Tech. Officer: GSFC/M MEYER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10747 **PURDUE UNIV** **4454**
 OPTIMIZATION OF GPS TRACKING LOOPS FOR SPACECRAFT NAVIGATION
 IN HEO/GEO ORBITS.
 04/17/2001 - 01/31/2002 FY01: \$20,000 Total: \$20,000
Prin. Invest.: J L GARRISON
Tech. Officer: GSFC/J A LEITNER
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 5 11080 **PURDUE UNIV** **4455**
 MOLA-SUPPORTED PRECISION GEOSPATIAL PROCESSING OF MOCA
 IMAGES:MODELS, ALGORITHMS AND EVALUATION
 08/06/2001 - 08/14/2003 FY01: \$53,000 Total: \$53,000
Prin. Invest.: J SHAN
Tech. Officer: GSFC/J M BOYCE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1147 **PURDUE UNIV** **4456**
 BIOLOGICAL PARTICLE SEPARATION IN LOW GRAVITY
 08/03/1995 - 08/02/2000 FY01: -\$1,793 Total: \$534,421
Prin. Invest.: J MORRE
Tech. Officer: MSFC/L KARR
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 8 1233 **PURDUE UNIV** **4457**
 RESEARCH "DEVELOPMENT OF ATMOSPHERIC PHYSICAL RET. USING
 SATELLITE DATA FROM MICROWAVE SOUNDING,ETC
 12/04/1996 - 01/21/2002 FY01: \$0 Total: \$198,156
Prin. Invest.: G W PETTY
Tech. Officer: MSFC/B L APENTA
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 8 1515 **PURDUE UNIV** **4458**
 VARIABILITY AND PREDICTABILITY OF LAND-ATMOSPHERE INTERACTIONS:
 OBSERVATIONAL AND MODELING STUDIES
 05/15/1998 - 05/31/2001 FY01: \$0 Total: \$168,057
Prin. Invest.: R OGLESBY
Tech. Officer: MSFC/J ARNOLD
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 8 1691 **PURDUE UNIV** **4459**
 EXPERIMENTAL AND NUMERICAL INVESTIGATIONS OF GROWTH
 MORPHOLOGIES OF PERITECTIC REACTIONS
 06/01/2000 - 11/30/2003 FY01: \$76,000 Total: \$116,000
Prin. Invest.: D JOHNSON
Tech. Officer: MSFC/P DOTY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1782 **PURDUE UNIV** **4460**
 RESEARCH GRANT ENTITLED "MAGNETIC FIELD GRADIENT LEVITATION
 SYSTEM FOR PHYSICS AND BIOPHYSICS"
 04/30/2001 - 04/29/2005 FY01: \$110,000 Total: \$110,000
Prin. Invest.: N M LAVRENDEAN
Tech. Officer: GRC/Y R HICKS
CASE Category: 46 - MECHANICAL ENGR

NAG 8 1833 **PURDUE UNIV** **4461**
 ENGINEERING A RIBOZYME FOR DIFFRACTIVE PROPERTIES
 09/05/2001 - 11/30/2004 FY01: \$40,000 Total: \$40,000
Prin. Invest.: B L GOLDEN
Tech. Officer: MSFC/B V GUYNES
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 9 1281 **PURDUE UNIV** **4462**
 HUMAN FACTORS RESEARCH/ORGANIZATIONAL LEARNING USING THE
 INTRANET
 03/07/2001 - 12/31/2001 FY01: \$25,000 Total: \$25,000
Prin. Invest.: G SALVENDY
Tech. Officer: JSC/B J WOOLFORD
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 9 1292 **PURDUE UNIV** **4463**
 CONTROL CREW NETWORK COMMUNICATIONS DURING ROUTINE & NON-
 ROUTINE EVENTS
 05/14/2001 - 09/30/2002 FY01: \$145,618 Total: \$145,618
Prin. Invest.: B S CALDWELL, NONE
Tech. Officer: JSC/B WOOLFORD
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 9 1385 **PURDUE UNIV** **4464**
 COLD WIRE MEASUREMENTS IN THE BODY FLAP CAVITY OF AN X-38
 MODEL
 09/24/2001 - 09/30/2002 FY01: \$10,493 Total: \$10,493
Prin. Invest.: S P SCHNEIDER
Tech. Officer: JSC/C H CAMPBELL, JSC/S M FITZGERALD
CASE Category: 41 - AERONAUTICAL ENGR

NAG13 00001 **PURDUE UNIV** **4465**
 EVALUATING REMOTE SENSING TECHNOLOGY FOR SITE SPECIFIC AGRI-
 CULTURE AND NATIONAL RESOURCES
 02/18/2000 - 03/19/2002 FY01: \$283,104 Total: \$482,343
Prin. Invest.: C J JOHANNSEN
Tech. Officer: SSC/R MCKELLIP
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG13 00008 **PURDUE UNIV** **4466**
 SIMULATION AND VISUALIZATION OF CAVITATING VENTURI FLOWS - REF
 #SPSOD086
 01/29/2001 - 12/31/2001 FY01: \$50,000 Total: \$50,000
Prin. Invest.: D HEISTER
Tech. Officer: SSC/R E FIELD
CASE Category: 41 - AERONAUTICAL ENGR

NAS 3 00132 **PURDUE UNIV** **4467**
 NRA 8-23 ADVANCED DESIGN CONCEPTS FOR SPACE SOLAR POWER
 05/12/2000 - 12/31/2000 FY01: \$0 Total: \$75,000
Prin. Invest.: N AVAILABLE
Tech. Officer: GRC/N AVAILABLE
CASE Category: 49 - ENGINEERING, OTHER

NCC 1 01042 **PURDUE UNIV** **4468**
 COMBINATORIAL MULTIOBJECTIVE OPTIMIZATION USING GENETIC ALGO-
 RITHMS
 04/10/2001 - 04/09/2002 FY01: \$30,003 Total: \$30,003
Prin. Invest.: W A CROSSLEY
Tech. Officer: LARC/S L PADULA, LARC/J L ROGERS
CASE Category: 41 - AERONAUTICAL ENGR

NCC 2 1245 **PURDUE UNIV** **4469**
 MACHINE LEARNING & DATA MINING FOR IMPROVED INTELLIGENT DATA
 UNDERSTANDING OF HIGH DIMENSIONAL EART
 04/05/2001 - 02/28/2002 FY01: \$133,000 Total: \$133,000
Prin. Invest.: C BRODLEY
Tech. Officer: ARC/C A HLAVKA, ARC/J COUGHLAN
CASE Category: 22 - COMPUTER SCIENCE

NCC 5 358 **PURDUE UNIV** **4470**
 DYNAMICAL SYSTEMS THEORY, NUMERICAL METHODS, OPTIMIZATION
 STRATEGIES & THEIR APPLICATION TO TRAJECT
 08/26/1998 - 07/31/2002 FY01: \$21,158 Total: \$299,347
Prin. Invest.: K C HOWELL
Tech. Officer: GSFC/D FOLTA
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 1 52198 **PURDUE UNIV** **4471**
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
 07/08/1998 - 10/31/2001 FY01: \$12,001 Total: \$66,001
Prin. Invest.: G L ROTH
Tech. Officer: LARC/D W BARTLETT
CASE Category: 41 - AERONAUTICAL ENGR

NGT 2 52225 **PURDUE UNIV** **4472**
 TOPOLOGY DESIGN OF ROTOR BLADES FOR AERODYNAMICS & STRUCTURAL CONSIDERATIONS
 07/29/1997 - 06/30/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: W A CROSSLEY
Tech. Officer: ARC/S R KOTTAPALLI
CASE Category: 41 - AERONAUTICAL ENGR

NGT 2 52285 **PURDUE UNIV** **4473**
 THE ROLE OF DIFFERENTIAL GENE EXPRESSION IN MECHANICAL O-DWARFING OF PLANTS
 09/25/2001 - 09/14/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: C A MITCHELL
Tech. Officer: ARC/C A CONLEY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NGT 5 30040 **PURDUE UNIV** **4474**
 EFFECT OF ANTHROPOGENIC AEROSOL ON CLOUD OPTICAL PROPERTIES: A CASE STUDY OF THE EASTERN U.S.
 10/17/1996 - 02/28/2001 FY01: -\$22,034 Total: \$65,966
Prin. Invest.: D HARSHVARDHAN
Tech. Officer: GSFC/G ASRAR
CASE Category: 31 - ATMOSPHERIC SCIENCE

NGT 5 30163 **PURDUE UNIV** **4475**
 DEVELOPMENT, EVALUATION, AND APPLICATION OF A FAST TIME RESPONSE MASS SPECTROMETRIC METHOD FOR QUANTITATIVE ANALYSIS
 08/31/1998 - 08/31/2001 FY01: \$0 Total: \$65,600
Prin. Invest.: P B SHEPSON, BARKET
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 40043 **PURDUE UNIV** **4476**
 THE NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
 01/30/1997 - 02/28/2001 FY01: \$0 Total: \$973,750
Prin. Invest.: D ANDRISANI
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40114 **PURDUE UNIV** **4477**
 INDIANA SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
 03/06/2001 - 02/28/2002 FY01: \$256,250 Total: \$256,250
Prin. Invest.: D ANDRISANI
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50130 **PURDUE UNIV** **4478**
 SEARCH FOR A SPECTROSCOPIC SIGNATURE OF TRIPLET METALS
 09/10/1997 - 06/30/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: T ZWIER
Tech. Officer: HQ/A NURRIDIN
CASE Category: 41 - AERONAUTICAL ENGR

NGT 5 50222 **PURDUE UNIV** **4479**
 MODELING MULTITHREADING ON MIMD COMPUTERS
 09/25/1998 - 08/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: L H JAMIESON, TEANY
Tech. Officer: HQ/A NURRIDIN
CASE Category: 22 - COMPUTER SCIENCE

NGT 5 50275 **PURDUE UNIV** **4480**
 LOW-THRUST GRAVITY-ASSISTED TRAJECTORY DESIGN STUDENT: THERESA J. DEBBAN
 06/20/2000 - 07/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: J M LONGUSKI
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50336 **PURDUE UNIV** **4481**
 SPECTROSCOPY & KINETICS OF METASTABLE DIACETYLENE: IMPROVING MODELS OF TITAN'S ATMOSPHERIC CHEMISTRY
 05/04/2001 - 06/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: T ZWEIR
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 5184 **TAYLOR UNIV** **4482**
 DROPPS: THE DISTRIBUTION AND ROLE OF PARTICLES IN THE POLAR SUMMER MESOSPHERE USING COORDINATED ROCK SAMPLES
 03/13/1998 - 09/30/2001 FY01: \$0 Total: \$172,075
Prin. Invest.: H D VOSS
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 - PHYSICS

NAG 5 8077 **TAYLOR UNIV** **4483**
 SOURCE-LOSS/CONE INVESTIGATION
 01/20/1999 - 01/31/2002 FY01: \$25,000 Total: \$124,994
Prin. Invest.: H D VOSS
Tech. Officer: GSFC/R HOFFMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 1 2179 **UNIV OF NOTRE DAME** **4484**
 WAKE DEVELOPMENT AND STRUCTURE IN ADVERSE PRESSURE GRADIENT FLOW
 04/06/1999 - 07/31/2000 FY01: \$0 Total: \$56,154
Prin. Invest.: F O THOMAS, R C NELSON
Tech. Officer: LARC/J B ANDERS
CASE Category: 41 - AERONAUTICAL ENGR

NAG 1 2214 **UNIV OF NOTRE DAME** **4485**
 COLLAPSE OF CRACKED RECTANGULAR PLATES UNDER BIAXIAL LOADING
 07/21/1999 - 07/11/2000 FY01: -\$4,149 Total: \$17,067
Prin. Invest.: E CORONA
Tech. Officer: LARC/J H STARNES, JR., LARC/R D YOUNG
CASE Category: 41 - AERONAUTICAL ENGR

NAG 1 2240 **UNIV OF NOTRE DAME** **4486**
 ADVANCED INFO TECHNOLOGY IN SIMULATION BASED LIFE CYCLE DESIGN UNDER UNCERTAINTY - NRA-98-LARC-8
 09/20/1999 - 09/30/2002 FY01: \$65,238 Total: \$143,270
Prin. Invest.: J E RENAUD
Tech. Officer: LARC/J L ROSEY
CASE Category: 49 - ENGINEERING, OTHER

NAG 1 2264 UNIV OF NOTRE DAME 4487
 FREE-STREAM TURBULENCE LEVEL MEASUREMENTS
 01/24/2000 – 08/31/2000 FY01: \$0 Total: \$59,645
Prin. Invest.: T C CORKE
Tech. Officer: LARC/K D WRIGHT
CASE Category: 13 – PHYSICS

NAG 1 01020 UNIV OF NOTRE DAME 4488
 ACOUSTIC SOURCE MODELING AND CONTROL FOR HIGH BY-PASS JET ENGINES
 01/24/2001 – 01/31/2002 FY01: \$63,380 Total: \$63,380
Prin. Invest.: T C CORKE, F O THOMAS
Tech. Officer: LARC/K W KINZIE
CASE Category: 41 – AERONAUTICAL ENGR

NAG 3 2213 UNIV OF NOTRE DAME 4489
 MECHANISTIC STUDIES OF COMBUSTION AND STRUCTURE FORMATION DURING SYNTHESIS OF ADVANCED MATERIALS
 01/15/1999 – 11/17/2002 FY01: \$92,625 Total: \$270,125
Prin. Invest.: A VARMA
Tech. Officer: GRC/R FRIEDMAN
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 2366 UNIV OF NOTRE DAME 4490
 DIFFUSIVE COARSENING OF LIQUID FOAMS IN MICROGRAVITY
 03/28/2000 – 11/30/2003 FY01: \$75,215 Total: \$125,215
Prin. Invest.: D A GLAZIER
Tech. Officer: GRC/F P CHIARMONTE
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 2384 UNIV OF NOTRE DAME 4491
 EXPERIMENTAL AND THEORETICAL STUDIES OF WET GRANULAR MEDIA
 04/06/2000 – 11/30/2003 FY01: \$19,847 Total: \$69,847
Prin. Invest.: D BARBASI
Tech. Officer: GRC/J H AGUI
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 2418 UNIV OF NOTRE DAME 4492
 NASA GRADUATE STUDENT DOCTORAL BUDGET PROJECT NASA GRADUATE STUDENT DOCTORAL BUDGET PROJECT
 05/09/2000 – 12/01/2001 FY01: \$0 Total: \$252,500
Prin. Invest.: S JOHNSON
Tech. Officer: GRC/R LAWRENCE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 4 206 UNIV OF NOTRE DAME 4493
 AN EXPERIMENTAL STUDY OF BOUNDARY LAYER RELAMINATION
 05/15/2000 – 09/30/2001 FY01: \$0 Total: \$20,025
Prin. Invest.: D O THOMAS
Tech. Officer: DFRC/D FISHER
CASE Category: 41 – AERONAUTICAL ENGR

NAG 5 4573 UNIV OF NOTRE DAME 4494
 DETECTION OF EXTRA-SOLAR PLANETS VIA GRAVITATIONAL
 09/05/1997 – 07/14/2001 FY01: \$0 Total: \$140,000
Prin. Invest.: D BENNETT
Tech. Officer: HQ/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 8099 UNIV OF NOTRE DAME 4495
 GEOCHEMICAL EVOLUTION OF THE MOON
 02/03/1999 – 08/14/2001 FY01: \$0 Total: \$79,000
Prin. Invest.: D R NEAL
Tech. Officer: HQ/JBOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 8355 UNIV OF NOTRE DAME 4496
 ERROR CONTROL CODING TECHNIQUES FOR SPACE AND SATELLITE COMMUNICATIONS; GSFC CONTROL #3453.
 03/18/1999 – 02/28/2002 FY01: \$0 Total: \$110,000
Prin. Invest.: D J COSTELLO, JR.
Tech. Officer: GSFC/W H MILLER
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 9364 UNIV OF NOTRE DAME 4497
 SUPERNOVAE AND THE UNIVERSE (LISA – 99)
 04/25/2000 – 04/30/2002 FY01: \$102,519 Total: \$221,152
Prin. Invest.: P GARNAVICH
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 9731 UNIV OF NOTRE DAME 4498
 THE MICROLENSING PLANET SEARCH PROJECT
 06/20/2000 – 02/28/2002 FY01: \$48,000 Total: \$93,000
Prin. Invest.: D BENNETT
Tech. Officer: GSFC/J BOYCE
CASE Category: 13 – PHYSICS

NAG 5 10503 UNIV OF NOTRE DAME 4499
 ERROR CONTROL CODING TECHNIQUES FOR SPACE & SATELLITE COMMUNICATIONS
 03/01/2001 – 02/28/2002 FY01: \$70,000 Total: \$70,000
Prin. Invest.: D J COSTELLO
Tech. Officer: GSFC/P YEH
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 10638 UNIV OF NOTRE DAME 4500
 GEOCHEMICAL EVOLUTION OF THE MOON & METEORITES
 03/17/2001 – 03/14/2002 FY01: \$30,000 Total: \$30,000
Prin. Invest.: C NEAL
Tech. Officer: GSFC/J BOYCE
CASE Category: 12 – CHEMISTRY

NCC 1 395 UNIV OF NOTRE DAME 4501
 TURBULENT WAKE DEVELOPMENT IN PRESSURE GRADIENT
 05/08/2000 – 07/14/2001 FY01: \$28,277 Total: \$48,277
Prin. Invest.: R C NELSON, F O THOMAS
Tech. Officer: LARC/J B ANDERS
CASE Category: 41 – AERONAUTICAL ENGR

NCC 1 01054 UNIV OF NOTRE DAME 4502
 TURBULENT WAKE DEVELOPMENT IN PRESSURE GRADIENT
 06/25/2001 – 07/14/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: F O THOMAS, R C NELSON
Tech. Officer: LARC/J B ANDERS
CASE Category: 41 – AERONAUTICAL ENGR

NCC 2 1014 **UNIV OF NOTRE DAME** **4503**
 EXPERIMENTAL INVESTIGATION OF UNSTEADY ASPECTS OF HIGH FLOWS
 02/01/1998 – 01/14/2002 FY01: \$31,053 Total: \$199,080
Prin. Invest.: F O THOMAS, S OLSON, R C NELSON
Tech. Officer: ARC/J C ROSS, ARC/D SATRAN
CASE Category: 41 – AERONAUTICAL ENGR

NCC 3 466 **UNIV OF NOTRE DAME** **4504**
 FUNDAMENTAL PROCESSES OF ATOMIZATION IN FLUID-FLUID FLOWS
 04/16/1996 – 04/15/2001 FY01: \$0 Total: \$519,994
Prin. Invest.: M J MCCREADY, H C CHANG, D T LEIGHTON
Tech. Officer: GRC/J B MCGUILLEN
CASE Category: 49 – ENGINEERING, OTHER

NCC 3 770 **UNIV OF NOTRE DAME** **4505**
 EFFECTS OF NONUNIFORM FLOWS ON SOUND GENERATION AND PROPAGATION
 02/10/2000 – 09/30/2001 FY01: \$0 Total: \$103,727
Prin. Invest.: D ATASSI
Tech. Officer: GRC/J R SCOTT
CASE Category: 41 – AERONAUTICAL ENGR

NCC 3 775 **UNIV OF NOTRE DAME** **4506**
 ENHANCED DESIGN OF TURBO-JET LPT BY ACTIVE SEPARATION CONTROL
 02/16/2000 – 12/15/2002 FY01: \$110,372 Total: \$170,372
Prin. Invest.: P C CORKE
Tech. Officer: GRC/D ASHPIS
CASE Category: 41 – AERONAUTICAL ENGR

NAG 5 8490 **VALPARISO UNIV** **4507**
 VALIDATION OF H₂O & O₃ MEASUREMENTS FROM SAGE III USING TRAJECTORY MAPPING & CONSTITUENT RECONSTRUCTION
 05/19/1999 – 10/31/2001 FY01: \$0 Total: \$66,156
Prin. Invest.: G A MORRIS
Tech. Officer: GSFC/J C DODGE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

IOWA

NAG 5 6854 **DRAKE UNIV** **4508**
 WIRE OBSERVATIONS OF THE CIRCUMSTELLAR REGIONS OF EVOLVED MASSIVE STARS
 02/19/1998 – 02/14/2001 FY01: \$0 Total: \$49,000
Prin. Invest.: A MARSTON
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 1 1933 **IOWA STATE UNIV** **4509**
 DEVELOPMENT OF ENHANCED X-RAY INSPECTION
 05/21/1997 – 05/19/2001 FY01: \$1 Total: \$233,901
Prin. Invest.: J GRAY, J BASART
Tech. Officer: LARC/W P WINFREE, LARC/F R PARKER
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 1 01040 **IOWA STATE UNIV** **4510**
 NEW APPROACHES TO INVERTING NDE DATA MY 1/3
 03/15/2001 – 12/31/2001 FY01: \$80,000 Total: \$80,000
Prin. Invest.: S S UPDA, J R BOWLER
Tech. Officer: LARC/W P WINFREE
CASE Category: 45 – ELECTRICAL ENGR

NAG 2 1471 **IOWA STATE UNIV** **4511**
 VERIFICATION OF CONTROLLERS BASED ON ADAPTIVE NEURAL NETWORKS
 05/01/2001 – 04/14/2002 FY01: \$66,301 Total: \$66,301
Prin. Invest.: A KELKAR
Tech. Officer: ARC/M R LOWRY, ARC/S LAU
CASE Category: 22 – COMPUTER SCIENCE

NAG 3 2342 **IOWA STATE UNIV** **4512**
 MODELING SURFACE ICING ROUGHNESS AND SURFACE WATER TRANSPORT
 03/01/2000 – 12/31/2000 FY01: \$0 Total: \$80,184
Prin. Invest.: A ROTHMAYER
Tech. Officer: GRC/M G POTAPCZUK
CASE Category: 41 – AERONAUTICAL ENGR

NAG 3 2540 **IOWA STATE UNIV** **4513**
 DEVELOPMENT OF CHEMICALLY AND THERMALLY ROBUST LITHIUM FAST ION CONDUCTING CHALCOGENIDE GLASSES
 02/08/2001 – 01/13/2002 FY01: \$75,000 Total: \$75,000
Prin. Invest.: S W MARTIN
Tech. Officer: GRC/N H HAGEDORN
CASE Category: 12 – CHEMISTRY

NAG 3 2571 **IOWA STATE UNIV** **4514**
 MODELING SURFACE ICING ROUGHNESS & SURFACE WATER TRANSPORT
 03/30/2001 – 02/25/2002 FY01: \$87,597 Total: \$87,597
Prin. Invest.: A P ROTHMAYER
Tech. Officer: GRC/M G POTAPCZUK
CASE Category: 41 – AERONAUTICAL ENGR

NAG 5 7070 **IOWA STATE UNIV** **4515**
 COORDINATED OBSERVATIONS OF TELESTELLAR OBJECTS
 03/04/1998 – 03/14/2000 FY01: -\$31 Total: \$23,869
Prin. Invest.: M A CATANESE
Tech. Officer: GSFC/J SWANK
CASE Category: 11 – ASTRONOMY

NAG 5 7133 **IOWA STATE UNIV** **4516**
 ATMOSPHERIC DYNAMICS DEDUCED FROM UARS USING MIDDLE ATMOSPHERE ISAMSCARBOT MONOXIDE AND UPPER TROPOSPHERE
 03/16/1998 – 04/30/2002 FY01: \$0 Total: \$176,922
Prin. Invest.: D L STANFORD
Tech. Officer: GSFC/A DOUGLASS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 7271 **IOWA STATE UNIV** **4517**
 SMALL SCALE TROPOPAUSE DYNAMICS AND TOMS TOTAL OZONE
 05/05/1998 – 05/14/2002 FY01: \$27,500 Total: \$239,000
Prin. Invest.: S L STANFORD
Tech. Officer: GSFC/S CHANDRA
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 7423 **IOWA STATE UNIV** **4518**
 XTE PROPOSAL (30260) - CORRELATED OBSERVATIONS OF MARKARIAN
 501
 05/26/1998 - 05/31/2000 FY01: -\$6 Total: \$9,161
Prin. Invest.: M A CATANESE
Tech. Officer: GSFC/J SWANK
CASE Category: 11 - ASTRONOMY

NAG 5 7530 **IOWA STATE UNIV** **4519**
 ANALYSES FOR THE CLIMATOLOGY AND SHORT-TERM VARIABILITY OF
 THE ATMOSPHERIC GENERAL CIRCULATION
 06/12/1998 - 06/14/2002 FY01: \$0 Total: \$216,000
Prin. Invest.: T CHEN
Tech. Officer: GSFC/S SCHUBERT
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7561 **IOWA STATE UNIV** **4520**
 COUPLED ATMOSPHERE-SNOW MODEL EVALUATION OF REGIONAL
 SNOWMELT
 06/29/1998 - 06/30/2002 FY01: \$0 Total: \$270,000
Prin. Invest.: W J GUTOWSKI, JR.
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 7756 **IOWA STATE UNIV** **4521**
 DYNAMICS OF THE ASTEROID ENVIRONMENT
 12/09/1998 - 10/31/1999 FY01: -\$14 Total: \$17,986
Prin. Invest.: D J SCHEERES
Tech. Officer: GSFC/J GRANT
CASE Category: 11 - ASTRONOMY

NAG 5 8293 **IOWA STATE UNIV** **4522**
 DIAGNOSIS AND SIMULATION OF THE SOUTHEAST ASIAN-INDUCED WAVE-
 TRAIN THAT OCCURS DURING TROPICAL PACIFIC
 02/25/1999 - 02/28/2002 FY01: \$35,242 Total: \$101,626
Prin. Invest.: T C CHEN
Tech. Officer: GSFC/M RIENECKER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 8352 **IOWA STATE UNIV** **4523**
 THEORETICAL MODELS FOR SEISMOLOGICAL STUDIES OF HOT COMPACT
 STARS (ATP98)
 03/01/1999 - 02/28/2002 FY01: \$68,133 Total: \$194,059
Prin. Invest.: S D KAWALER
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8465 **IOWA STATE UNIV** **4524**
 THE RESPONSE OF THE SOLAR ATMOSPHERE TO TIME-VARYING AND
 SPATIALLY INHOMOGENEOUS BOUNDARY CONDITIONS
 04/21/1999 - 03/31/2002 FY01: \$45,128 Total: \$130,214
Prin. Invest.: L A WILLSON
Prin. Invest.: NONE
Tech. Officer: GSFC/W WAGNER
CASE Category: 11 - ASTRONOMY

NAG 5 8892 **IOWA STATE UNIV** **4525**
 MINIATURIZED LIQUID CHROMATOGRAPHY
 12/07/1999 - 11/30/2000 FY01: \$0 Total: \$84,314
Prin. Invest.: M PORTER
Tech. Officer: GSFC/G FOGELMAN
CASE Category: 99 - MULTI INTERDISCIPLINARY, OTHER

NAG 8 1637 **IOWA STATE UNIV** **4526**
 AN ADVANCED ENTRY GUIDANCE CONCEPT BASED ON TRAJECTORY
 REGULATION
 10/28/1999 - 01/31/2002 FY01: \$35,692 Total: \$105,974
Prin. Invest.: P LU
Tech. Officer: MSFC/G DUKEMAN
CASE Category: 46 - MECHANICAL ENGR

NAG 8 1681 **IOWA STATE UNIV** **4527**
 DYNAMICAL SELECTION OF THREE-DIMENSIONAL INTERFACE PATTERNS
 IN DIRECTIONAL SOLIDIFICATION.
 05/25/2000 - 11/30/2003 FY01: \$165,300 Total: \$185,300
Prin. Invest.: R K TRIVETI
Tech. Officer: MSFC/A JACKSON
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 9 1115 **IOWA STATE UNIV** **4528**
 EXAMINATION OF BACTERIA MATERIALS
 05/10/1999 - 05/09/2004 FY01: \$15,000 Total: \$45,000
Prin. Invest.: P A BAZLINSKI
Tech. Officer: JSC/E K GIBSON
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 9 1184 **IOWA STATE UNIV** **4529**
 EXPERIMENTS TO DETERMINE THE AERODYNAMIC COEFFICIENT OF THE
 X38 PARAFoil
 01/28/2000 - 12/31/2001 FY01: \$13,200 Total: \$23,200
Prin. Invest.: L M LILJEGREN, NONE
Tech. Officer: JSC/R L BARTON, JSC/W D GOODRICH
CASE Category: 41 - AERONAUTICAL ENGR

NAG 9 1191 **IOWA STATE UNIV** **4530**
 RAPID SPECIFIC CHEMICAL SENSORS AND TEST KIT
 02/28/2000 - 01/31/2003 FY01: \$230,154 Total: \$491,761
Prin. Invest.: M D PORTER
Tech. Officer: JPL/D JAN
CASE Category: 59 - LIFE SCIENCE, OTHER

NCC 1 01038 **IOWA STATE UNIV** **4531**
 SYNTHESIS METHODS FOR ROBUST PASSIFICATION AND CONTROL - 11
 03/20/2001 - 07/31/2001 FY01: \$9,132 Total: \$9,132
Prin. Invest.: A G KELKAR
Tech. Officer: LARC/S M JOSHI
CASE Category: 41 - AERONAUTICAL ENGR

NCC 1 01039 **IOWA STATE UNIV** **4532**
 AN INTEGRATED APPROACH TO NOISE CONTROL WITH APPLICATIONS TO
 AIRCRAFT CABINS
 03/28/2001 - 01/31/2004 FY01: \$68,063 Total: \$68,063
Prin. Invest.: A G KELKAR
Tech. Officer: LARC/S M JOSHI
CASE Category: 41 - AERONAUTICAL ENGR

NCC 1 01047 **IOWA STATE UNIV** **4533**
 PREDICTIVE AND NEURAL PREDICTIVE CONTROL OF UNCERTAIN
 SYSTEMS - II
 04/17/2001 - 02/28/2003 FY01: \$12,198 Total: \$12,198
Prin. Invest.: A G KELKAR
Tech. Officer: LARC/P J HALEY
CASE Category: 21 - MATHEMATICS

NCC 2 5349 **IOWA STATE UNIV** **4534**
 PROPOSAL FOR JOINT RESEARCH EXCHANGE BETWEEN NASA & ISU
 09/03/1999 - 12/31/2000 FY01: \$0 Total: \$109,500
Prin. Invest.: M S GORDON
Tech. Officer: ARC/W M HUO, ARC/R L JAFFE
CASE Category: 12 - CHEMISTRY

NCC 2 5379 **IOWA STATE UNIV** **4535**
 STOKES CODE FOR COMPUTING MAGNETO-HYDRODYNAMIC FLOW FIELDS
 04/07/2000 - 04/30/2002 FY01: \$30,000 Total: \$58,000
Prin. Invest.: J C TANNEHILL
Tech. Officer: ARC/U B MEHTA
CASE Category: 41 - AERONAUTICAL ENGR

NCC 3 846 **IOWA STATE UNIV** **4536**
 QUENCHING OF PARTIAL-GAS COMBUSTIBLE MIXTURES USING ELECTRIC PARTICULATE SUSPENSION (EPS) AND DISPERSED PARTICLES
 01/09/2001 - 12/07/2004 FY01: \$84,996 Total: \$84,996
Prin. Invest.: G M COLVER
Tech. Officer: GRC/K R SACKSTEDER
CASE Category: 46 - MECHANICAL ENGR

NCC 4 122 **IOWA STATE UNIV** **4537**
 RECONFIGURABLE FLIGHT CONTROL SYSTEM DESIGN
 04/28/1999 - 04/28/2001 FY01: -\$7 Total: \$48,993
Prin. Invest.: P LU
Tech. Officer: DFRC/J BURKEN
CASE Category: 41 - AERONAUTICAL ENGR

NCC 8 98 **IOWA STATE UNIV** **4538**
 INTERFACE PATTERN SELECTION CRITERION FOR CELLULAR STRUCTURES IN DIRECTIONAL SOLIDIFICATION
 06/28/1996 - 06/30/2002 FY01: \$214,000 Total: \$1,024,543
Prin. Invest.: R K TRIVEDI
Tech. Officer: MSFC/M HAMMOND
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NCC 9 100 **IOWA STATE UNIV** **4539**
 60 DAY DEFINITION PHASE
 08/01/1999 - 10/03/2004 FY01: \$425,000 Total: \$1,225,000
Prin. Invest.: D OLSEN
Tech. Officer: JSC/H LANE
CASE Category: 55 - AGRICULTURE

NGT 3 52332 **IOWA STATE UNIV** **4540**
 GRADUATE STUDENT RESEARCHERS PROGRAM
 06/11/1997 - 06/30/2000 FY01: -\$61 Total: \$65,939
Prin. Invest.: A ROTHMAYER
Tech. Officer: GRC/F J MONTAGANI
CASE Category: 46 - MECHANICAL ENGR

NGT 3 52380 **IOWA STATE UNIV** **4541**
 GRADUATE STUDENT RESEARCHERS PROGRAM GRADUATE STUDENT RESEARCHERS PROGRAM
 06/29/2001 - 06/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: D ROTHMAYER
Tech. Officer: GRC/F J MONTAGANI
CASE Category: 49 - ENGINEERING, OTHER

NGT 5 30419 **IOWA STATE UNIV** **4542**
 INTERANNUAL VARIATION OF THE NORTH AMERICAN MONSOON RAINFALL STUDENT: JIN-HO YOON
 09/06/2001 - 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: T CHEN
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 40027 **IOWA STATE UNIV** **4543**
 NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
 01/09/1997 - 01/31/2001 FY01: -\$18,374 Total: \$1,796,026
Prin. Invest.: W J BYRD
Tech. Officer: GSFC/D D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40081 **IOWA STATE UNIV** **4544**
 IOWA STATE GRANT COLLEGE AND FELLOWSHIP PROGRAM
 02/08/2001 - 01/31/2002 FY01: \$493,374 Total: \$493,374
Prin. Invest.: W J BYRD
Tech. Officer: GSFC/D D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 8 52895 **IOWA STATE UNIV** **4545**
 OPTIMAL EARTH-MARS TRANSFER TRAJECTORIES USING ADVANCED PROPULSION SYSTEM
 05/25/2001 - 07/01/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: P LU
Tech. Officer: MSFC/S NASH-STEVENSON
CASE Category: 41 - AERONAUTICAL ENGR

NGT 8 52903 **IOWA STATE UNIV** **4546**
 MORPHOLOGICAL SELECTION DURING ALLOW SOLIDIFICATION
 05/25/2001 - 07/01/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: R NAPOLITANO
Tech. Officer: MSFC/S NASH-STEVENSON
CASE Category: 49 - ENGINEERING, OTHER

NAG 1 1907 **UNIV OF IOWA** **4547**
 IMPACT OF MINERAL AEROSOLS AND ASIAN EMISSIONS ON THE CHEMISTRY OF THE TROPOSPHERE
 03/19/1997 - 03/31/2000 FY01: -\$122,343 Total: \$216,471
Prin. Invest.: G R CAMICHAEL
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 2305 **UNIV OF IOWA** **4548**
 IMPACT OF MINERAL AND OTHER AEROSOLS AND ASIAN EMISSIONS ON THE CHEMISTRY OF THE TROPOSPHERE
 06/15/2000 - 03/31/2003 FY01: \$121,000 Total: \$211,000
Prin. Invest.: G R CARMICHAEL, H LEVY
Tech. Officer: LARC/G L MADDREA
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 2 571 **UNIV OF IOWA** **4549**
 "CONTINUING ANALYSIS AND INTERPRETATION OF DATA FROM PIONEER 10 AND PIONEER 11"
 05/23/1989 - 12/31/1999 FY01: \$0 Total: \$1,265,482
Prin. Invest.: J A VAN ALLEN
Tech. Officer: ARC/L E LASHER, ARC/R O FIMMEL
CASE Category: 11 - ASTRONOMY

NAG 2 1167 **UNIV OF IOWA** **4550**
 VIDEO ENGRAVING FOR MOBILE ROBOTICS
 11/19/1997 - 08/31/2000 FY01: \$0 Total: \$77,199
Prin. Invest.: G W THOMAS
Tech. Officer: ARC/M H SIMS
CASE Category: 22 - COMPUTER SCIENCE

NAG 3 2128 **UNIV OF IOWA** **4551**
 PLASMA DUST CRYSTALLIZATION PLASMA DUST CRYSTALLIZATION
 02/27/1998 - 12/31/2002 FY01: \$124,000 Total: \$459,000
Prin. Invest.: J A GOREE
Tech. Officer: GRC/R B ROGERS
CASE Category: 13 - PHYSICS

NAG 3 2368 **UNIV OF IOWA** **4552**
 RIVULET DYNAMICS WITH VARIABLE GRAVITY AND WIND SHEAR
 04/03/2000 - 11/30/2003 FY01: \$75,951 Total: \$125,932
Prin. Invest.: D S MARSHALL
Tech. Officer: GRC/C E NIEDERHAUS
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2375 **UNIV OF IOWA** **4553**
 THEORY AND SIMULATION OF GROUND-BASED AND MICROGRAVITY
 DUSTY PLASMA EXPERIMENTS
 03/28/2000 - 11/30/2003 FY01: \$100,000 Total: \$140,000
Prin. Invest.: A BHATTACHARJEE
Tech. Officer: GRC/R B ROGERS
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 3716 **UNIV OF IOWA** **4554**
 BALLOONING INSTABILITIES OF THIN CURRENT SHEETS
 01/24/1997 - 01/31/2001 FY01: \$0 Total: \$253,128
Prin. Invest.: A BHATTACHARJEE
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 - PHYSICS

NAG 5 4266 **UNIV OF IOWA** **4555**
 STUDY OF AURORAL ELECTRON ACCELERATION BY KINETIC
 03/25/1997 - 05/14/2001 FY01: \$0 Total: \$261,100
Prin. Invest.: D F OTANI
Tech. Officer: GSFC/D EVANS
CASE Category: 13 - PHYSICS

NAG 5 4497 **UNIV OF IOWA** **4556**
 COMPREHENSIVE INVESTIGATION OF 2FP RADIO EMISSIONS THE DAYSIDE
 AND NIGHTSIDE AURORAL REGIONS
 05/06/1997 - 05/31/2000 FY01: \$0 Total: \$113,060
Prin. Invest.: D MENIETTI
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 - PHYSICS

NAG 5 4755 **UNIV OF IOWA** **4557**
 GROUND-BASED RADAR-RAINFALL ESTIMATION FOR THE GUA VALIDA-
 TION SITES
 06/27/1997 - 08/30/2000 FY01: \$0 Total: \$820,786
Prin. Invest.: W F KRAJEWSKI
Tech. Officer: GSFC/G M HEYMSFIELD
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 5051 **UNIV OF IOWA** **4558**
 PLASMA TURBULENCE IN THE INTERSTELLAR MEDIUM: SIMILARITY TO
 HELIOSPHERIC TURBULENCE & ROLE IN...
 01/25/1996 - 09/30/2000 FY01: \$0 Total: \$152,000
Prin. Invest.: S R SPANGLER
Tech. Officer: GSFC/H C NEEDLEMAN
CASE Category: 13 - PHYSICS

NAG 5 5232 **UNIV OF IOWA** **4559**
 ROCKET AURORAL CORRELATOR EXPERIMENT PI DR. CRAIG KLETZING
 02/12/1999 - 02/09/2002 FY01: \$75,400 Total: \$373,657
Prin. Invest.: C A KLETZING
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 - PHYSICS

NAG 5 5319 **UNIV OF IOWA** **4560**
 PLASMA DIAGNOSTIC FOR THE HIBAR EXPERIMENT PLASMA DIAGNOSTIC
 FOR THE HIBAR EXPERIMENT
 03/19/2001 - 02/28/2004 FY01: \$78,966 Total: \$78,966
Prin. Invest.: C A KLETZING
Tech. Officer: GSFC/J C BRINTON
CASE Category: 13 - PHYSICS

NAG 5 6127 **UNIV OF IOWA** **4561**
 THEORETICAL STUDIES OF TYPE III SOLAR RADIO BURSTS
 08/04/1997 - 07/14/2001 FY01: \$0 Total: \$130,840
Prin. Invest.: D CAIRNS
Tech. Officer: GSFC/W WAGNER
CASE Category: 11 - ASTRONOMY

NAG 5 6369 **UNIV OF IOWA** **4562**
 LANGMUIR-LIKE WAVES AND RADIATION IN PLANETARY FOR
 09/25/1997 - 08/31/2001 FY01: \$0 Total: \$87,000
Prin. Invest.: D H CAIRNS
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 - PHYSICS

NAG 5 6525 **UNIV OF IOWA** **4563**
 KINETIC ALFVEN WAVE ELECTRON ACCELERATION ON AURORAL FIELD
 LINES
 11/25/1997 - 02/28/2001 FY01: \$0 Total: \$72,074
Prin. Invest.: D A KLETZING
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 - PHYSICS

NAG 5 7187 **UNIV OF IOWA** **4564**
 RESTORATION AND ARCHIVING OF THE ISEE 1 AND 2 PLASMA WAVE
 INVESTIGATION DATA SETS
 03/26/1998 - 03/31/2002 FY01: \$0 Total: \$134,117
Prin. Invest.: D ANDERSON
Tech. Officer: GSFC/J BREDEKAMP
CASE Category: 11 - ASTRONOMY

NAG 5 7390 **UNIV OF IOWA** **4565**
 GENERATION AND SCATTERING OF RADIATION OBSERVED BY VOYAGER
 IN THE OUTER HELIOSPHERE
 05/07/1998 - 02/28/2002 FY01: \$0 Total: \$43,200
Prin. Invest.: I H CAIRNS
Tech. Officer: GSFC/J LING
CASE Category: 11 - ASTRONOMY

NAG 5 7684 **UNIV OF IOWA** **4566**
 FUNDING OF THE ANALYSIS OF PLASMA MEASUREMENTS FOR THE
 GEOTAIL EXTENDED MISSION / FUNDING FOR YR 1
 09/09/1998 - 09/30/2002 FY01: \$103,333 Total: \$1,270,000
Prin. Invest.: L A FRANK
Tech. Officer: GSFC/D H FAIRFIELD
CASE Category: 13 - PHYSICS

NAG 5 7710 **UNIV OF IOWA** **4567**
 A PROPOSAL FOR STUDYING GEOMAGNETIC STORMS FROM THE ANAL-
 YSES AND INTER. OF PLASMA WAVE DATA
 09/23/1998 - 10/31/2001 FY01: \$0 Total: \$460,000
Prin. Invest.: R R ANDERSON
Tech. Officer: GSFC/D H FAIRFIELD
CASE Category: 13 - PHYSICS

NAG 5 7712 **UNIV OF IOWA** **4568**
 FUNDING FOR VIS ON THE POLAR SPACECRAFT FOR THE EX TENDED
 MISSION
 09/28/1998 - 03/31/2002 FY01: \$546,606 Total: \$1,978,606
Prin. Invest.: L A FRANK
Tech. Officer: GSFC/R HOFFMAN
CASE Category: 13 - PHYSICS

NAG 5 7943 **UNIV OF IOWA** **4569**
 POLAR PLASMA WAVE INVESTIGATION DATA ANALYSIS IN T HE EXTENDED
 MISSION
 01/27/1999 - 11/30/2001 FY01: \$276,000 Total: \$1,018,757
Prin. Invest.: D GURNATT
Tech. Officer: GSFC/R HOFFMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 8119 **UNIV OF IOWA** **4570**
 GGS-POLAR-HYDRA EXTENDED MISSION SCIENCE INVESTIGA TION
 01/29/1999 - 12/31/2001 FY01: \$446,000 Total: \$1,696,000
Prin. Invest.: J SCUDDER
Tech. Officer: GSFC/R HOFFMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 8873 **UNIV OF IOWA** **4571**
 COUPLING SATELLITE REMOTE SENSING & UNSTEADY FLOW MODELING
 FOR DISCHARGE ESTIMATION
 11/16/1999 - 10/31/2002 FY01: \$53,282 Total: \$141,702
Prin. Invest.: A BRADLEY
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8918 **UNIV OF IOWA** **4572**
 ANALYSIS AND MODELING OF JOVIAN RADIO EMISSIONS OBSERVED BY
 GALILEO
 01/18/2000 - 06/30/2002 FY01: \$55,000 Total: \$105,000
Prin. Invest.: J MENIETTI
Tech. Officer: GSFC/D BOGAN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9499 **UNIV OF IOWA** **4573**
 NEW GRANT EXTEND SOLAR MAX: COLLISIONLESS RECOMME NDATION
 THEORY AND HIGH RESOLUTION SIMULATIONS
 05/04/2000 - 05/14/2002 FY01: \$30,000 Total: \$100,000
Prin. Invest.: J SCUDDER
Tech. Officer: GSFC/R HOFFMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 9561 **UNIV OF IOWA** **4574**
 WAVE AND PARTICLE INTERACTIONS IN THE HIGH AND LOW -ALTITUDE
 AURORAL REGION DURING RISING SOLARACTI
 05/04/2000 - 05/14/2002 FY01: \$20,000 Total: \$90,041
Prin. Invest.: D GURNETT
Tech. Officer: GSFC/R HOFFMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 9664 **UNIV OF IOWA** **4575**
 GROUND-BASED RAINFALL ESTIMATION STUDIES FOR TRMM VALIDATION
 06/08/2000 - 12/14/2001 FY01: \$198,000 Total: \$208,000
Prin. Invest.: W F KRAJEWSKI
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9964 **UNIV OF IOWA** **4576**
 X-RAY EMISSION FROM SINGLE WOLF-RAYET STARS
 09/25/2000 - 09/30/2002 FY01: \$14,000 Total: \$32,581
Prin. Invest.: R IGNACE
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 9974 **UNIV OF IOWA** **4577**
 A PROPOSAL FOR CLUSTER II WIDEBAND (WBD) PLASMA WAVE INVE-
 STIGATION MISSION OPERATIONS & DATA
 09/21/2000 - 10/31/2001 FY01: \$486,130 Total: \$786,130
Prin. Invest.: D GURNETT
Tech. Officer: GSFC/M GOLDSTEIN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 10329 **UNIV OF IOWA** **4578**
 BALLOONING INSTABILITIES OF COLLISIONLESS THIN CURRENT SHEETS:
 A MECHANISM FOR SUBSTORM ONSET
 01/29/2001 - 01/31/2002 FY01: \$40,000 Total: \$40,000
Prin. Invest.: A BHATTACHARJEE
Tech. Officer: GSFC/J SHARBER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 11117 **UNIV OF IOWA** **4579**
 PLASMA MEASUREMENTS FOR GEOTAIL
 08/08/2001 - 09/30/2002 FY01: \$400,000 Total: \$400,000
Prin. Invest.: L FRANK
Tech. Officer: GSFC/DFAIRFIELD
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1352 **UNIV OF IOWA** **4580**
 FOR RESEARCH "REAL TIME MONITORING OF PROTEIN CONCENTRATION
 IN SOLUTION TO CONTROL NUCLEATION...
 06/02/1997 - 08/31/2001 FY01: \$82,899 Total: \$573,441
Prin. Invest.: M A ARNOLD
Tech. Officer: MSFC/B GUYNES, MSFC/J MAYO
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1386 **UNIV OF IOWA** **4581**
 RESEARCH " THERMODYNAMICS OF PROTEIN CRYSTALLIZA- TION AND
 LINKS TO CRYSTAL QUALITY"
 06/23/1997 - 10/31/2001 FY01: \$155,128 Total: \$716,126
Prin. Invest.: J M WIENCEK
Tech. Officer: MSFC/B GUYNES, MSFC/J MAYO
CASE Category: 12 - CHEMISTRY

NAG 8 1425 **UNIV OF IOWA** **4582**
 R/S SHORT TERM QUANTITATIVE PRECIPITATION FORE- CASTING USING
 MULTI-SENSOR REMOTE SENSING AND ETA
 01/14/1998 - 05/31/2001 FY01: \$0 Total: \$117,940
Prin. Invest.: W F KRAJEWSKI
Tech. Officer: MSFC/J ARNOLD
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 8 1588 **UNIV OF IOWA** **4583**
 REJUBENATION OF SPENT MEDIA VIA SUPPORTED EMU- LATION LIQUID
 MEMBRANES
 03/19/1999 - 11/30/2002 FY01: \$177,650 Total: \$510,650
Prin. Invest.: J WIENECK
Tech. Officer: MSFC/B GUYNES, MSFC/D CHAFFEE
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 8 1591 **UNIV OF IOWA** **4584**
 EVALUATING OXIDATIVE STREE IN VIRALLY-INFECTED CELLS IN
 SIMULATED MICROGRAVITY
 03/19/1999 - 11/30/2002 FY01: \$135,850 Total: \$376,850
Prin. Invest.: V G RODGERS
Tech. Officer: JSC/M ANDERSON
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 8 1592 **UNIV OF IOWA** **4585**
 R/S MONITORING AND CONTROL OF ROTATING WALL VESSELS AND
 APPLICATION TO THE STUDY OF PROSTATE
 03/30/1999 - 11/30/2002 FY01: \$266,950 Total: \$658,950
Prin. Invest.: D W MURHAMMER
Tech. Officer: JSC/S GONDA
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 8 1593 **UNIV OF IOWA** **4586**
 R/S EXTREMOPHILIC INTERFACIAL SYSTEMS FOR WASTE PROCESSING IN
 SPACE
 03/15/1999 - 11/30/2002 FY01: \$105,450 Total: \$316,450
Prin. Invest.: T L PEEPLES
Tech. Officer: MSFC/B GUYNES, MSFC/D CHAFFEE
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 8 1835 **UNIV OF IOWA** **4587**
 NONINVASIVE NEAR-INFRARED MONITORS FOR PROTEIN SRYSTALLIZA-
 TION
 08/30/2001 - 11/30/2004 FY01: \$124,000 Total: \$124,000
Prin. Invest.: M A ARNOLD
Tech. Officer: MSFC/B GUYNES
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAS 5 30730 **UNIV OF IOWA** **4588**
 ISTP PROJECT'S WIDEBAND PLASMA WAVE INVESTIGATION
 01/30/1990 - 12/18/2000 FY01: \$0 Total: \$6,404,840
Prin. Invest.: D GURNETT
Tech. Officer: GSFC/J L CHRISTENSEN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 1 422 **UNIV OF IOWA** **4589**
 REGIONAL SCALE FORECASTING AND EXPERIMENT-SPECIFIC EMISSION
 ESTIMATES OF GAS AND AEROSOL DISTRIBUTION
 09/26/2000 - 06/30/2003 FY01: \$68,661 Total: \$105,551
Prin. Invest.: G R CARMICHAEL
Prin. Invest.: NONE
Tech. Officer: LARC/J L RAPER, SR
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 3 666 **UNIV OF IOWA** **4590**
 REFLIGHT OF ELF (ENCLOSED LAMINAR FLAMES) INVESTIG ATION
 02/02/1999 - 01/03/2003 FY01: \$81,700 Total: \$225,575
Prin. Invest.: D CHEN
Tech. Officer: GRC/D P STOCKER
CASE Category: 49 - ENGINEERING, OTHER

NCC 8 94 **UNIV OF IOWA** **4591**
 EQUIAXED DENDRITIC SOLIDIFICATION EXPERIMENT (EDSE)
 05/31/1996 - 01/31/2005 FY01: \$199,500 Total: \$916,480
Prin. Invest.: C BECKERMANN
Tech. Officer: MSFC/A JACKMAN, MSFC
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 8 199 **UNIV OF IOWA** **4592**
 DENDRITIC ALLOY SOLIDIFICATION EXPERIMENT (DASE)
 04/12/2000 - 11/30/2003 FY01: \$166,250 Total: \$186,250
Prin. Invest.: C BECKERMANN
Tech. Officer: GSFC/P DOTY
CASE Category: 47 - METAL & MATERIALS ENGR

NGT 5 30199 **UNIV OF IOWA** **4593**
 ASSESSMENT OF THE IMPACT OF ASIAN EMISSIONS ON A LOCAL,
 REGIONAL & GLOBAL SCALE/STUDENT: SARATHG
 08/25/1999 - 08/31/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: G CARMICHAEL
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 50156 **UNIV OF IOWA** **4594**
 MICROVASCULAR ALTERATIONS IN SIMULATED MICROGRAVIT
 09/11/1997 - 12/15/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: C V GISOLFI
Tech. Officer: GSFC/L SMITH
CASE Category: 59 - LIFE SCIENCE, OTHER

NGT 5 50377 **UNIV OF IOWA** **4595**
 ARCHAEOAL CHAPERONINS CAN BE USED TO EXTEND THE FUNCTIONAL
 RANGE OF CONDITIONS IN WHICH ENZYMES
 09/05/2001 - 09/14/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: T PEEPLES
Tech. Officer: HQ/K BLANDING
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

KANSAS

NAG 5 8633 **FORT HAYS STATE UNIV** **4596**
 A STUDY OF THE SEASONAL & INTERANNUAL VARIABILITY OF ICE
 PRODUCTION & HEAT TRANSPORT IN BAFFIN BAY
 07/01/1999 - 06/30/2000 FY01: \$0 Total: \$39,542
Prin. Invest.: J HEINRICHS
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 1 2234 **KANSAS STATE UNIV** **4597**
 FURTHER INVEST OF RECEDING HORIZON-BASED CONTROLLERS & NEURAL NETWORK-BASED GPC SYSTEMS
 08/20/1999 - 06/12/2000 FY01: \$0 Total: \$21,884
Prin. Invest.: A G KELKAR
Tech. Officer: LARC/P J HALEY
CASE Category: 21 - MATHEMATICS

NAG 2 1209 **KANSAS STATE UNIV** **4598**
 MODEL CONSTRUCTION FOR FINITE STATE VERIFICATION: APPLICATION OF ABSTRACT INTERPRETATION & PARTIAL
 05/01/1998 - 03/31/2000 FY01: \$0 Total: \$443,064
Prin. Invest.: D A SCHMIDT
Tech. Officer: ARC/M R LOWRY
CASE Category: 22 - COMPUTER SCIENCE

NAG 2 1274 **KANSAS STATE UNIV** **4599**
 DIFFERENTIATION OF BONE MARROW MACROPHAGES IN SPAC E-PHASE A
 12/28/1998 - 05/31/2002 FY01: \$337,293 Total: \$586,604
Prin. Invest.: S K CHAPES
Tech. Officer: ARC/W E HINDS
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 3 2360 **KANSAS STATE UNIV** **4600**
 GELATION IN AEROSOLS: NON-MEAN-FIELD AGGREGATION KINETICS
 03/27/2000 - 11/30/2003 FY01: \$80,001 Total: \$120,000
Prin. Invest.: C SORENSEN
Tech. Officer: GRC/F P CHIARAMONTE
CASE Category: 13 - PHYSICS

NAG 5 6213 **KANSAS STATE UNIV** **4601**
 LAND-COVER CHANGE IN THE GREAT PLAINS: PREDICTING IMPACTS OF REGIONAL FOREST EXPANSION ON BIOGEOCH
 10/24/1997 - 07/31/2001 FY01: \$0 Total: \$485,000
Prin. Invest.: D JOHNSON
Tech. Officer: GSFC/A JANETOS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 11337 **KANSAS STATE UNIV** **4602**
 SCALING UP THE ECOSYSTEM CONSEQUENCES OF FOREST EXPANSION IN THE GREAT PLAINS REGION
 09/07/2001 - 09/14/2002 FY01: \$194,762 Total: \$194,762
Prin. Invest.: L JOHNSON
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 8 1687 **KANSAS STATE UNIV** **4603**
 RESEARCH ENTITLED, "NANOCRYSTAL SUPERLATTICES: SYNTHESIS AND PROPERTIES"
 06/01/2000 - 11/30/2003 FY01: \$66,500 Total: \$101,500
Prin. Invest.: C M KLABUNDE
Tech. Officer: MSFC/P DOTY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1702 **KANSAS STATE UNIV** **4604**
 RESEARCH, "CRYSTAL GROWTH OF NEW FAMILIES OF FERROELASTIC MATERIALS"
 06/07/2000 - 11/30/2003 FY01: \$85,500 Total: \$125,500
Prin. Invest.: M D HOLLINGSWORTH
Tech. Officer: MSFC/P DOTY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NCC 1 225 **KANSAS STATE UNIV** **4605**
 GENERALIZED PREDICTIVE AND NEURAL GENERALIZED PREDICTIVE CONTROL AEROSPACE SYSTEMS
 05/07/1996 - 05/15/2000 FY01: -\$1 Total: \$127,618
Prin. Invest.: A G KELKAR
Tech. Officer: LARC/P J HALEY, ARC/D I SOLOWAY
CASE Category: 21 - MATHEMATICS

NCC 1 226 **KANSAS STATE UNIV** **4606**
 PASSIVITY-BASED ROBUST CONTROL OF AEROSPACE SYST
 04/09/1996 - 04/08/2000 FY01: -\$1 Total: \$115,875
Prin. Invest.: D G KELKAR
Tech. Officer: LARC/D M JOSHI
CASE Category: 41 - AERONAUTICAL ENGR

NCC 1 348 **KANSAS STATE UNIV** **4607**
 SYNTHESIS METHODS FOR ROBUST PASSIFICATION AND CONTROL OF LINEAR, TIME-INVARIANT (LTI) SYSTEMS
 06/29/1999 - 12/31/2000 FY01: -\$9,138 Total: \$18,362
Prin. Invest.: A G KELKAR
Tech. Officer: LARC/S M JOSHI
CASE Category: 41 - AERONAUTICAL ENGR

NCC 1 400 **KANSAS STATE UNIV** **4608**
 PREDICTIVE AND NEURAL PREDICTIVE CONTROL OF UNCERTAIN SYSTEMS
 05/31/2000 - 12/31/2000 FY01: -\$12,198 Total: \$12,721
Prin. Invest.: A G KELKAR
Tech. Officer: LARC/P J HALEY
CASE Category: 21 - MATHEMATICS

NCC 5 234 **KANSAS STATE UNIV** **4609**
 ASPECTS AND CONTROL OF TIDAL SEDIMENTATION AND THE EXTRACTION AND MODELING OF TIDAL PARAMETERS FROM
 12/12/1997 - 09/30/2001 FY01: \$0 Total: \$75,000
Prin. Invest.: A ARCHER
Tech. Officer: GSFC/B BILLS
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 1 01011 **UNIV OF KANSAS** **4610**
 ESTIMATION OF UNSTEADY AERODYNAMIC MODELS FROM FLIGHT TEST DATA
 12/08/2000 - 11/11/2002 FY01: \$62,572 Total: \$62,572
Prin. Invest.: C E LAN
Tech. Officer: LARC/J M BRANDON
CASE Category: 41 - AERONAUTICAL ENGR

NAG 5 4358 **UNIV OF KANSAS** **4611**
 STUDIES IN PLANETARY AERONOMY
 04/17/1997 - 08/31/2001 FY01: \$0 Total: \$273,759
Prin. Invest.: D E CRAVENS
Tech. Officer: GSFC/D BOGAN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 4990 **UNIV OF KANSAS** **4612**
 DEVELOPMENT OF LAND USE MAPPING AND PROTOCOL FOR T A MULTI-TEMPORAL REMOTE SENSING APPLICATION
 06/27/1997 - 09/30/2000 FY01: \$0 Total: \$440,431
Prin. Invest.: K P PRICE
Tech. Officer: GSFC/A J TUYAHOV
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 7053 **UNIV OF KANSAS** **4613**
 ANALYSIS OF AIRCRAFT LASER ALTIMETER DATA FROM GREENLAND
 02/25/1998 - 02/28/2002 FY01: \$0 Total: \$90,772
Prin. Invest.: D A BRAATEN
Tech. Officer: GSFC/R THOMAS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7516 **UNIV OF KANSAS** **4614**
 TRACKING INTERNAL LAYERS OF THE GREENLAND ICE SHEET USING
 AIRBORNE RADIO ECHO SOUNDER IMAGES
 06/04/1998 - 05/31/2001 FY01: \$0 Total: \$49,291
Prin. Invest.: J GAUCH
Tech. Officer: GSFC/W ABDALATI
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 8758 **UNIV OF KANSAS** **4615**
 MEASUREMENT OF THE THICKNESS OF THE GREENLAND ICE SHEET &
 HIGH RESOLUTION MAPPING OF INTERNAL LAYERS
 08/24/1999 - 12/31/2001 FY01: \$222,578 Total: \$547,701
Prin. Invest.: S GOGINENI
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9840 **UNIV OF KANSAS** **4616**
 REMOTE SENSING OF EAST ANTARCTIC ICE STREAMS
 07/26/2000 - 03/31/2002 FY01: \$0 Total: \$113,221
Prin. Invest.: S GOGINENI
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9841 **UNIV OF KANSAS** **4617**
 INCUBATING COMMERCIAL REMOTE SENSING PRODUCTS
 07/28/2000 - 01/14/2002 FY01: \$75,000 Total: \$100,000
Prin. Invest.: K P PRICE
Tech. Officer: GSFC/A J TUYAHOV
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 11106 **UNIV OF KANSAS** **4618**
 VALIDATION OF AMSR-E & AMSU/HSB LEVEL 1 BRIGHTNESS TEMPERATURES &
 LEVEL 2 CLOUD & PRECIPITATION
 07/13/2001 - 08/31/2002 FY01: \$84,273 Total: \$84,273
Prin. Invest.: R BENNARTZ
Tech. Officer: GSFC/D STARR
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG13 01008 **UNIV OF KANSAS** **4619**
 LINKING REMOTE SENSING, LAND USE, AND CARBON SEQUESTRATION:
 INSIGHTS LEAF TO LANDSCAPE SCALE
 09/18/2001 - 09/17/2003 FY01: \$997,800 Total: \$997,800
Prin. Invest.: K P PRICE
Tech. Officer: SSC/B DAVIS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG13 99009 **UNIV OF KANSAS** **4620**
 CONSORTIUM FOR PRODUCTS AND TECHNOLOGY TO SUPPORT THE
 GREAT PLAINS AGROECOSYSTEM
 03/01/1999 - 03/01/2002 FY01: \$0 Total: \$1,550,000
Prin. Invest.: E A MARTINKO
Tech. Officer: SSC/C HILL
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG13 99019 **UNIV OF KANSAS** **4621**
 REMOTE SENSING-BASED GEOSTATISTICAL MODELING FOR CONIFEROUS
 FOREST INVENTORY & CHARACTERIZATION
 08/10/1999 - 08/09/2002 FY01: \$230,000 Total: \$430,000
Prin. Invest.: M JAKUBAUSKAS
Tech. Officer: SSC/R MCKALLIP
CASE Category: 32 - GEOLOGICAL SCIENCE

NAS 1 99052 **UNIV OF KANSAS** **4622**
 DEVELOPMENT OF A HYBRID RF/LASER RADAR
 03/08/1999 - 03/07/2002 FY01: \$177,606 Total: \$583,648
Prin. Invest.: C ALLEN
Tech. Officer: LARC/J HILL
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAS 3 00162 **UNIV OF KANSAS** **4623**
 NRA 99-OES-08 ESTO AIST SBI
 08/01/2000 - 08/02/2002 FY01: \$198,000 Total: \$305,462
Prin. Invest.: G, J P EVANS
Tech. Officer: GRC/K BHASIN
CASE Category: 45 - ELECTRICAL ENGR

NCC 5 168 **UNIV OF KANSAS** **4624**
 KANSAS SPACE AND LIFE SCIENCES, GEOPHYSICAL INFORM AERONAUTICS
 AND FLIGHT ENGINEERING TECHNOLOGY (K-01/27/1997 - 12/31/2001
 FY01: \$500,000 Total: \$2,500,000
Prin. Invest.: D R DOWNING
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 415 **UNIV OF KANSAS** **4625**
 EPSCOR PREPARATION PROGRAM
 06/24/1999 - 03/01/2002 FY01: \$0 Total: \$450,000
Prin. Invest.: D DOWNING
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 3 52361 **UNIV OF KANSAS** **4626**
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM NASA GRADUATE
 STUDENT RESEARCHERS PROGRAM
 08/18/1999 - 08/14/2002 FY01: \$27,500 Total: \$49,500
Prin. Invest.: R TAGHAVI
Tech. Officer: GRC/M MEYER
CASE Category: 41 - AERONAUTICAL ENGR

NGT 5 30404 **UNIV OF KANSAS** **4627**
 DETERMINATION OF THERMAL RESPONSE PATTERNS FROM LAND
 SURFACES & THEIR RELATIONSHIP WITH CLIMATIC
 08/14/2001 - 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: S EGBERT
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40065 **UNIV OF KANSAS** **4628**
 KANSAS/NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
 09/16/1998 - 03/31/2001 FY01: \$0 Total: \$637,500
Prin. Invest.: D R DOWNING
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40121 UNIV OF KANSAS 4629
 KANSAS SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
 03/20/2001 – 03/31/2002 FY01: \$212,500 Total: \$212,500
Prin. Invest.: D R DOWNING
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 50073 UNIV OF KANSAS 4630
 A HIGH RESOLUTION RADAR CHARACTERIZATION OF ICE IN TERRESTRIAL LIFE
 08/26/1997 – 07/31/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: R G PLUMB
Tech. Officer: HQ/A NURRIDIN
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 50161 UNIV OF KANSAS 4631
 ESTIMATING SOIL MOISTURE OVER 4 TALLGRASS PRAIRIE USING ERS-2 SAR
 10/02/1997 – 08/31/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: J HARRINGTON
Tech. Officer: HQ/A NURRIDIN
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 50219 UNIV OF KANSAS 4632
 DEVELOPMENT OF RADAR SYSTEM FOR ACCUMULATION MEASUREMENT-
 SESSF STUDENT: PANNIRSELVAM
 09/17/1998 – 02/28/2002 FY01: \$7,839 Total: \$73,839
Prin. Invest.: G S PRASAD
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 2 1491 UNIV OF KANSAS MEDICAL CENTER 4633
 LONG-TERM SIMULATED MICROGRAVITY INHIBITS SPERMATOGENESIS IN
 ADULT MALE RATS
 07/11/2001 – 06/30/2002 FY01: \$111,762 Total: \$111,762
Prin. Invest.: J S TASH
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 11038 UNIV OF KANSAS MEDICAL CENTER 4634
 STUDIES IN PLANETARY AERONOMY
 06/14/2001 – 08/31/2002 FY01: \$50,000 Total: \$50,000
Prin. Invest.: T E CRAVENS
Tech. Officer: GSFC/D J BOGAN
CASE Category: 11 – ASTRONOMY

NAG 3 1985 WICHITA STATE UNIV 4635
 MODERNIZE AND EXPAND THE WATER IMPINGEMENT DATA BASE FOR
 AIRCRAFT SURFACES
 11/12/1996 – 03/15/2000 FY01: -\$82 Total: \$396,893
Prin. Invest.: M PAPADAKIS
Tech. Officer: GRC/C S BIDWELL
CASE Category: 41 – AERONAUTICAL ENGR

NAG 3 2137 WICHITA STATE UNIV 4636
 PILOT SIMULATOR TRAINING FOR AIRCRAFT ICING PILOT SIMULATOR
 TRAINING FOR AIRCRAFT ICING
 03/06/1998 – 10/31/2001 FY01: \$202,060 Total: \$1,014,319
Prin. Invest.: D ELLIS, M PAODAKIS
Tech. Officer: GRC/T H BOND
CASE Category: 41 – AERONAUTICAL ENGR

NAG 3 2324 WICHITA STATE UNIV 4637
 WATER DROPLET IMPINGEMENT PROGRAM – PHASE II WATER DROPLET
 IMPINGEMENT PROGRAM – PHASE II
 02/01/2000 – 11/30/2001 FY01: \$125,656 Total: \$201,434
Prin. Invest.: D PAPADAKIS
Tech. Officer: GRC/C BIDWELL
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 3435 WICHITA STATE UNIV 4638
 SPECTROSCOPIC PROPERTIES OF SUB STELLAR OBJECTS
 10/01/1996 – 09/30/2001 FY01: \$79,400 Total: \$303,500
Prin. Invest.: D ALEXANDER
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NCA 1 106 WICHITA STATE UNIV 4639
 GENERAL AVIATION PROGRAM/AGATE
 02/24/1995 – 10/31/2001 FY01: \$795,833 Total: \$5,207,161
Prin. Invest.: H WILLIFORD, D ELLIS
Tech. Officer: LARC/W E RICKS
CASE Category: 41 – AERONAUTICAL ENGR

NCA 3 111 WICHITA STATE UNIV 4640
 JOINT SPONSORED RESEARCH AGREEMENT – ICING RESEARCH
 02/22/1996 – 03/31/2001 FY01: \$0 Total: \$374,101
Prin. Invest.: D ELLIS
Tech. Officer: GRC/T H BOND
CASE Category: 41 – AERONAUTICAL ENGR

NCC 3 624 WICHITA STATE UNIV 4641
 TAILPLANE ICING PROGRAM – PHASE II TAILPLANE ICING PROGRAM –
 PHASE II
 06/08/1998 – 11/30/2001 FY01: \$37,952 Total: \$464,712
Prin. Invest.: M PAPADAKIS, D ELLIS
Tech. Officer: GRC/T P RATVASKY
CASE Category: 41 – AERONAUTICAL ENGR

NCC 8 202 WICHITA STATE UNIV 4642
 "ROLE OF THE FILLER WIRE COMPOSITIONS IN CRACK NUCLEATION AND
 PROPAGATION OF ALUMINUM WELDS"
 06/08/2000 – 10/16/2001 FY01: \$0 Total: \$62,000
Prin. Invest.: G E TALIA
Tech. Officer: MSFC/A C NUNES, MSFC/C K RUSSELL
CASE Category: 47 – METAL & MATERIALS ENGR

KENTUCKY

NAG 1 01036 UNIV OF KENTUCKY 4643
 DEV/APPLIC OF MAGNETOELASTIC & MAGNETOACOUSTIC REMOTE
 QUERY ENVIRONMENTAL SENSORS
 06/05/2001 – 06/30/2004 FY01: \$157,770 Total: \$157,770
Prin. Invest.: V SINGH, E DICKEY, C A GRIMES
Tech. Officer: LARC/C H ROLLINS
CASE Category: 49 – ENGINEERING, OTHER

NAG 2 1121 **UNIV OF KENTUCKY** **4644**
 CARBON NANOTUBULES: BUILDING BLOCKS FOR NANOMETER -SCALE
 ENGINEERING
 02/25/1997 - 10/31/1999 FY01: \$651 Total: \$137,576
Prin. Invest.: S B SINNOTT
Tech. Officer: ARC/C LEVIT, ARC/D A BAILEY
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 2 1363 **UNIV OF KENTUCKY** **4645**
 BIOMIMETIC DETECTION SCHEMES ON A MICROCENTRIFUGE PLATFORMS
 (LABCD)
 07/27/1999 - 07/14/2002 FY01: \$264,020 Total: \$698,526
Prin. Invest.: S DAUNERT
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 3 2099 **UNIV OF KENTUCKY** **4646**
 LARGE EDDY SIMULATION OF FLOWS IN TURBINE CASCADES USING
 CONSERVATIVE UPWIND-BIASED 5TH ORDER NUMBE
 12/23/1997 - 11/30/2001 FY01: \$25,000 Total: \$275,277
Prin. Invest.: P G HVANG
Tech. Officer: GRC/D E ASHPIS
CASE Category: 41 - AERONAUTICAL ENGNR

NAG 3 2567 **UNIV OF KENTUCKY** **4647**
 MAGNETICALLY ASSISTED COMBUSTION EXPERIMENT (MACE)
 03/16/2001 - 12/31/2004 FY01: \$10,000 Total: \$10,000
Prin. Invest.: K SAITO
Tech. Officer: GRC/K R SACKSTEDER
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2613 **UNIV OF KENTUCKY** **4648**
 AN EXPERIMENTAL AND COMPUTATIONAL INVESTIGATION OF OSCIL-
 LATING AIRFOIL UNSTEADY AERODYNAMICS AT LAR
 06/06/2001 - 05/31/2005 FY01: \$46,221 Total: \$46,221
Prin. Invest.: V CAPECE
Tech. Officer: GRC/D MIN
CASE Category: 46 - MECHANICAL ENGR

NAG 5 3841 **UNIV OF KENTUCKY** **4649**
 GAS DYNAMICS IN ACTIVE GALACTIC NUCLEI: BROAD LINE
 02/28/1997 - 02/14/2001 FY01: \$0 Total: \$182,500
Prin. Invest.: I SHLOSMAN
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 4235 **UNIV OF KENTUCKY** **4650**
 THEORETICAL STUDIES OF INFRARED EMISSION FROM STAR
 03/24/1997 - 09/30/2001 FY01: \$0 Total: \$253,900
Prin. Invest.: D A VERNER
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 4594 **UNIV OF KENTUCKY** **4651**
 IN-SITU, REMOTE CHEMICAL SENSORS BASED ON THIN MAG
 05/12/1997 - 01/14/2001 FY01: \$0 Total: \$376,695
Prin. Invest.: C A GRIMES
Tech. Officer: GSFC/D JAN
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 5 6937 **UNIV OF KENTUCKY** **4652**
 QUANTITATIVE X-RAY - UV LINE AND CONTINUUM SPECTRO SCOPY WITH
 APPLICATION TO AGN
 04/29/1998 - 06/30/2001 FY01: \$0 Total: \$64,700
Prin. Invest.: G FERLAND
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 7031 **UNIV OF KENTUCKY** **4653**
 DATA ANALYSIS OF SPECTRAL ENERGY DISTRIBUTIONS OF YOUNG
 STELLAR OBJECTS
 02/18/1998 - 02/14/2001 FY01: \$0 Total: \$220,473
Prin. Invest.: M ELITZUR
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8165 **UNIV OF KENTUCKY** **4654**
 QUANTITATIVE X-RAY - UV LINE AND CONTINUUM SPECTRO SCOPY WITH
 APPLICATION TO AGN
 02/09/1999 - 09/30/2001 FY01: \$0 Total: \$116,805
Prin. Invest.: G J FERLAND
Tech. Officer: GSFC/J BREDEKAMP
CASE Category: 11 - ASTRONOMY

NAG 5 8212 **UNIV OF KENTUCKY** **4655**
 FUNDAMENTAL PROBLEMS IN ASTROPHYSICAL PLASMAS (LTS A98)
 02/26/1999 - 02/28/2002 FY01: \$80,885 Total: \$233,719
Prin. Invest.: G J FERLAND
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 10518 **UNIV OF KENTUCKY** **4656**
 DUST EVOLUTION IN THE EARLY UNIVERSE AND GALACTIC SYSTEMS:
 OBSERVATIONAL CONSEQUENCES & COSMOLOGICAL
 03/07/2001 - 03/14/2003 FY01: \$168,387 Total: \$168,387
Prin. Invest.: M ELITZUR
Prin. Invest.: NONE
Tech. Officer: GSFC/E DWEK
CASE Category: 11 - ASTRONOMY

NAG 5 10823 **UNIV OF KENTUCKY** **4657**
 CENTRAL REGIONS IN DISK GALAXIES (ATP 2000)
 05/01/2001 - 05/14/2002 FY01: \$70,204 Total: \$70,204
Prin. Invest.: I SHLOSMAN
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAS 1 01099 **UNIV OF KENTUCKY** **4658**
 A VERIFIED DESIGN TOOL FOR LARGE APERTURE MEMBRANE TELE-
 SCOPE MIRRORS
 07/11/2001 - 01/31/2002 FY01: \$126,594 Total: \$126,594
Prin. Invest.: S W SMITH
Tech. Officer: LARC/R S PAPPA
CASE Category: 46 - MECHANICAL ENGR

NCC 1 385 **UNIV OF KENTUCKY** **4659**
 FIGURE CONTROL OF LIGHTWEIGHT OPTICAL STRUCTURES (NASA HQS
 COMPETITION)
 03/15/2000 - 12/31/2002 FY01: \$85,000 Total: \$185,000
Prin. Invest.: J A MAIN
Tech. Officer: LARC/R S PAPPA
CASE Category: 46 - MECHANICAL ENGR

NCC 2 5193 **UNIV OF KENTUCKY** **4660**
 TEMPERATURE FLUCTUATIONS IN THE ORION NEBULA AND NEBULAR
 ABUNDANCE SCALE
 11/01/1996 - 05/31/2000 FY01: -\$1 Total: \$53,986
Prin. Invest.: D J FERLAND
Tech. Officer: ARC/D GOORITCH
CASE Category: 11 - ASTRONOMY

NCC 2 5383 **UNIV OF KENTUCKY** **4661**
 COMPUTATIONAL INVESTIGATIONS OF CARBON NANOTUBE MATERIALS
 05/22/2000 - 06/30/2000 FY01: -\$40,385 Total: \$4,487
Prin. Invest.: S SINNOT
Tech. Officer: ARC/M MEYYA, ARC/H PARTRIDGE 111
CASE Category: 43 - CHEMICAL ENGR

NCC 2 5386 **UNIV OF KENTUCKY** **4662**
 SIMULATIONS OF CARBON NANOTUBES IN NANOELECTRONICS AND BIO-
 MATERIALS APPLICATIONS
 06/08/2000 - 08/31/2001 FY01: \$0 Total: \$25,000
Prin. Invest.: M MENON
Tech. Officer: ARC/H PATRIDGE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 2 5405 **UNIV OF KENTUCKY** **4663**
 FUNDAMENTAL PROBLEMS IN PLASMA ASTROPHYSICS: THE THERMAL
 EQUILIBRIUM OF NGC 7009
 10/24/2000 - 10/31/2001 FY01: \$10,250 Total: \$10,250
Prin. Invest.: G J FERLAND
Tech. Officer: ARC/D GOORTVITCH
CASE Category: 11 - ASTRONOMY

NCC 3 590 **UNIV OF KENTUCKY** **4664**
 TURBULENCE & TRANSITION MODELING OF LOW PRESSURE T URBINE
 FLOWS
 12/17/1997 - 12/31/2002 FY01: \$80,000 Total: \$419,754
Prin. Invest.: G HUANG
Tech. Officer: GRC/D E ASHPIS
CASE Category: 41 - AERONAUTICAL ENGR

NGT 1 01006 **UNIV OF KENTUCKY** **4665**
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) MY 1/3
 06/05/2001 - 06/30/2004 FY01: \$12,000 Total: \$12,000
Prin. Invest.: S W SMETH
Tech. Officer: LARC/R A HATHAWAY
CASE Category: 41 - AERONAUTICAL ENGR

NGT 1 52223 **UNIV OF KENTUCKY** **4666**
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
 09/10/1999 - 08/23/2001 FY01: \$12,000 Total: \$44,000
Prin. Invest.: M ROCHE, J MAIN
Tech. Officer: LARC/G C HORNER
CASE Category: 46 - MECHANICAL ENGR

NGT 5 71 **UNIV OF KENTUCKY** **4667**
 GSRP TRAINING GRANT - GEORGE NELSON - SHAPE TUNING OF
 EXTREMELY LARGE ORBITAL TELESCOPE MIRRORS
 06/09/1998 - 11/30/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: J A MAIN
Tech. Officer: GSFC/M S BURRELL
CASE Category: 46 - MECHANICAL ENGR

NGT 8 52869 **UNIV OF KENTUCKY** **4668**
 INVESTIGATING THE EFFECTS OF FOAM INFLATED DEPLOYABLE SPACE-
 CRAFT STRUCTURES
 07/27/1998 - 05/18/2000 FY01: -\$6,338 Total: \$37,662
Prin. Invest.: J A MAIN
Tech. Officer: MSFC/J F DOWDY
CASE Category: 46 - MECHANICAL ENGR

NAG 5 11040 **UNIV OF LOUISVILLE** **4669**
 GENERAL CIRCULATION OF PLANETARY ATMOSPHERES
 06/13/2001 - 06/14/2002 FY01: \$91,000 Total: \$91,000
Prin. Invest.: T DOWLING
Tech. Officer: GSFC/D J BOGAN
CASE Category: 11 - ASTRONOMY

NAG 8 1509 **UNIV OF LOUISVILLE** **4670**
 SHORT TERM QUANTITATIVE PRECIPITATION FORECASTING USING MULTI-
 SENSOR REMOTE SENSING AND ETA MODEL
 03/04/1998 - 02/02/2000 FY01: -\$7,454 Total: \$77,070
Prin. Invest.: M N FRENCH
Tech. Officer: MSFC/J SIMONDS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 2 5373 **UNIV OF LOUISVILLE** **4671**
 MICROARRAY ANALYSIS OF MICROGRAVITY-DEPENDENT GENE EXPRES-
 SIONS IN NORMAL HUMAN FIBROBLASTS
 03/30/2000 - 04/14/2002 FY01: \$90,250 Total: \$185,250
Prin. Invest.: E WANG
Tech. Officer: ARC/J W HINES, ARC/M M AVERNER
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NCC 2 5374 **UNIV OF LOUISVILLE** **4672**
 CLONING AND FUNCTIONAL CHARACTERIZATION OF NOVEL GENES
 WHOSE EXPRESSIONS ARE MICROGRAVITY-DEPEN....
 03/30/2000 - 04/14/2002 FY01: \$90,250 Total: \$185,250
Prin. Invest.: E WANG
Tech. Officer: ARC/J W HINES, ARC/M M AVERNER
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 5 8762 **WESTERN KENTUCKY UNIV** **4673**
 STARBASE NETWORK
 08/27/1999 - 09/14/2002 FY01: \$0 Total: \$1,915,000
Prin. Invest.: C H MCGRUDER, 111
Tech. Officer: GSFC/JD ROSENDHAL
CASE Category: 11 - ASTRONOMY

NCC 5 222 **WESTERN KENTUCKY UNIV** **4674**
 TO SUPPORT THE KENTUCKY NASA EXPERIMENTAL PROGRAM COMPETI-
 TIVE RESEARCH
 08/11/1997 - 06/30/2002 FY01: \$0 Total: \$1,800,000
Prin. Invest.: R HACKNEY
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 396 **WESTERN KENTUCKY UNIV** **4675**
 NASA EPSCOR: PREPARATORY GRANT PROPOSAL
 05/13/1999 - 05/31/2002 FY01: \$0 Total: \$450,000
Prin. Invest.: R HACKNEY
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 571 WESTERN KENTUCKY UNIV 4676
 KENTUCKY NASA EPSCOR PROGRAM
 07/16/2001 – 07/31/2002 FY01: \$700,000 Total: \$700,000
Prin. Invest.: R HACKNEY
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 3 52353 WESTERN KENTUCKY UNIV 4677
 SYNTHESIS AND CHARACTERIZATION OF ELECTRON-BEAM CU RED AND THERMAL CURED BISMALEIMIDE-TRIAZINE COPOL
 06/24/1999 – 07/31/2000 FY01: \$0 Total: \$22,000
Prin. Invest.: W PAN
Tech. Officer: GRC/F J MONTEGANI
CASE Category: 12 – CHEMISTRY

NGT 5 40051 WESTERN KENTUCKY UNIV 4678
 NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA
 01/30/1997 – 02/28/2002 FY01: \$0 Total: \$1,046,684
Prin. Invest.: R HACKNEY
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 40105 WESTERN KENTUCKY UNIV 4679
 KENTUCKY SPACE GRANT COLLEGE & FELLOWSHIP PROGRAM
 03/06/2001 – 02/28/2003 FY01: \$262,650 Total: \$262,650
Prin. Invest.: R HACKNEY
Tech. Officer: GSFC/D D DETROYE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

LOUISIANA

NAG 8 1392 GRAMBLING STATE UNIV 4680
 R/S "NLO POLYMERS THAT HAVE ENHANCED THERMAL STABILITY AND LOW ALIGNMENT DECAY"
 07/23/1997 – 10/31/2000 FY01: -\$2,203 Total: \$285,512
Prin. Invest.: C WALTON
Tech. Officer: MSFC/B PENN
CASE Category: 11 – ASTRONOMY

NAG 2 1020 LOUISIANA STATE UNIV – BATON ROUGE 4681
 DEVELOPMENTAL ANALYSIS OF SEEDS GROWN ON MIR
 01/18/1996 – 11/30/1999 FY01: \$0 Total: \$371,575
Prin. Invest.: M E MUSGRAVE
Tech. Officer: ARC/C M WINGET, ARC/G C JAHNS
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 2 1320 LOUISIANA STATE UNIV – BATON ROUGE 4682
 A RADAPPERTIZATION PROTOCOL FOR SAMPLES RETURNED TO EARTH FROM MARS
 05/10/1999 – 04/14/2001 FY01: \$0 Total: \$58,800
Prin. Invest.: J R BATTISTA
Tech. Officer: ARC/D L DEVINCENZI
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 2 1460 LOUISIANA STATE UNIV – BATON ROUGE 4683
 DEVELOPMENT OF A PROTOCOL FOR STERILING MINERAL SAMPLES RETURNED TO EARTH FROM MARS USING GAMMA RADIATION
 03/08/2001 – 10/31/2001 FY01: \$42,446 Total: \$42,446
Prin. Invest.: J R BATTISTA
Tech. Officer: ARC/L E BEBOUT, ARC/D DIVINCENZI
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 2 1511 LOUISIANA STATE UNIV – BATON ROUGE 4684
 THE EFFECTS OF MICROGRAVITY ON PROTEIN-LIGAND INTERACTIONS
 07/23/2001 – 07/31/2002 FY01: \$89,523 Total: \$89,523
Prin. Invest.: V J LICATA
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 3 2361 LOUISIANA STATE UNIV – BATON ROUGE 4685
 THEORETICAL AND EXPERIMENTAL INVESTIGATION OF THE STABILITY OF AN EVAPORATING CONSTRAINED VAPOR BUBBLE
 04/03/2000 – 11/30/2003 FY01: \$43,700 Total: \$71,200
Prin. Invest.: H WONG, NONE
Tech. Officer: GRC/J SKARDA
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 3082 LOUISIANA STATE UNIV – BATON ROUGE 4686
 ACCRETION ONTO MAGNETIC DEGENERATE STARS
 09/22/1995 – 09/30/1999 FY01: -\$3,262 Total: \$170,681
Prin. Invest.: G CHANMUGAM
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 5064 LOUISIANA STATE UNIV – BATON ROUGE 4687
 THE ADVANCED THIN IONIZATION CALORIMETER (ATIC) BALLOON EXPERIMENT
 05/03/1996 – 05/06/2001 FY01: \$75,000 Total: \$2,481,800
Prin. Invest.: J P WEFEL
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/B A MERRITT
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 5127 LOUISIANA STATE UNIV – BATON ROUGE 4688
 MINUTE OF ARC RESOLUTION GAMMA-RAY IMAGING EXPERIMENT (MARGIE)
 07/02/1997 – 09/30/2000 FY01: \$0 Total: \$149,825
Prin. Invest.: M CHERRY
Tech. Officer: GSFC/H NEEDLEMAN
CASE Category: 13 – PHYSICS

NAG 5 5177 LOUISIANA STATE UNIV – BATON ROUGE 4689
 TRANSITION RADIATION DETECTORS FOR HIGH ENERGY MEASUREMENTS ON ACCESS
 04/24/1998 – 03/31/2002 FY01: \$0 Total: \$240,000
Prin. Invest.: M L CHERRY
Tech. Officer: GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 5208 LOUISIANA STATE UNIV – BATON ROUGE 4690
 ULTRA-LONG DURATION MISSION CONCEPT FOR PROPOSAL FOR A MINUTE-OF-ARC RESOLUTION GAMMA-RAY EXPERIMENT
 09/24/1998 – 11/30/2001 FY01: \$99,430 Total: \$210,000
Prin. Invest.: M CHERRY
Tech. Officer: WFF/B A MERRITT
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 5297 LOUISIANA STATE UNIV – BATON ROUGE 4691
 SIFTER SIFTER
 06/12/2000 – 12/31/2001 FY01: \$0 Total: \$41,500
Prin. Invest.: M L CHERRY
Tech. Officer: WFF/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 5306 LOUISIANA STATE UNIV – BATON ROUGE 4692
 ADVANCED THIN IONIZATION CARLORIMETER BALLOON EXPERIMENT
 01/09/2001 – 11/30/2003 FY01: \$345,000 Total: \$345,000
Prin. Invest.: J P WEFEL
Tech. Officer: GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 5307 LOUISIANA STATE UNIV – BATON ROUGE 4693
 INITIAL FUNDING FOR THE ABOVE REFERENCED GRANT IN THE AMOUNT
 OF 55KPI: FAZELY/LSU; GRANT TITLE:
 06/05/2001 – 11/30/2003 FY01: \$55,000 Total: \$55,000
Prin. Invest.: D FAZELY
Tech. Officer: WFF/B MERRITT
CASE Category: 13 – PHYSICS

NAG 5 5323 LOUISIANA STATE UNIV – BATON ROUGE 4694
 A WIDE-FIELD HIGH-RESOLUTION HARD X-RAY/GAMMA-RAY IMAGING
 TELESCOPE FOR ULTRA LONG BALLOON MISSION
 03/21/2001 – 11/30/2003 FY01: \$132,500 Total: \$132,500
Prin. Invest.: M L CHERRY
Tech. Officer: GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 7355 LOUISIANA STATE UNIV – BATON ROUGE 4695
 A CGRO TARGET OF OPPORTUNITY PROPOSAL FOR FLARING BLAZARS
 04/29/1998 – 01/14/2000 FY01: -\$600 Total: \$1,900
Prin. Invest.: J STACY
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 7933 LOUISIANA STATE UNIV – BATON ROUGE 4696
 EXTRAGALACTIC INTERSTELLAR DUST_ (LTSA – NEW)
 12/14/1998 – 12/31/2001 FY01: \$59,162 Total: \$191,989
Prin. Invest.: G C CLAYTON
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 8100 LOUISIANA STATE UNIV – BATON ROUGE 4697
 A SURVEY OF ACTIVE GALAXIES AND HIGH-LATITUDE GAMMA-RAY
 SOURCES USING COMPTEL ALL-SKY MAXIMUM-LIK
 01/25/1999 – 01/31/2001 FY01: \$0 Total: \$7,500
Prin. Invest.: J STACY
Tech. Officer: GSFC/J NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 8497 LOUISIANA STATE UNIV – BATON ROUGE 4698
 NUMERICAL HYDRODYNAMICS OF MASS-TRANSFERRING BINARIES (ATP
 – 98)
 05/18/1999 – 04/30/2002 FY01: \$60,000 Total: \$176,520
Prin. Invest.: J FRANK
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 9203 LOUISIANA STATE UNIV – BATON ROUGE 4699
 MOVING BEYOND THE STANDARD PARADIGM/THE IMPORTANCE OF
 INTERSTELLAR DUST FROM THE MILKY WAY TO HIGH REDSHIFT
 03/16/2000 – 03/14/2002 FY01: \$43,804 Total: \$103,706
Prin. Invest.: G CLAYTON
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 9245 LOUISIANA STATE UNIV – BATON ROUGE 4700
 WORLD DELTAS: A BASELINE AND CHANGES.
 03/14/2000 – 03/31/2002 FY01: \$124,357 Total: \$197,937
Prin. Invest.: O HUH
Tech. Officer: GSFC/H FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 9709 LOUISIANA STATE UNIV – BATON ROUGE 4701
 USING IR EMISSION TO CONSTRAIN THE ROLE OF DUST IN GALAXIES
 07/25/2000 – 06/30/2002 FY01: \$49,825 Total: \$98,726
Prin. Invest.: G C CLAYTON
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 10185 LOUISIANA STATE UNIV – BATON ROUGE 4702
 FAR-ULTRAVIOLET INTERSTELLAR EXTINCTION IN THE LARGE MAGEL-
 LANIC CLOUD – FUSE-2000
 01/25/2001 – 01/31/2002 FY01: \$73,200 Total: \$73,200
Prin. Invest.: G C CLAYTON
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 – ASTRONOMY

NAG 8 1731 LOUISIANA STATE UNIV – BATON ROUGE 4703
 ADVANCED LIGHT WEIGHT MAGNET PROGRAM
 07/25/2000 – 07/31/2002 FY01: \$61,000 Total: \$94,256
Prin. Invest.: R G GOODRICH
Tech. Officer: MSFC/T ROBERTSON
CASE Category: 13 – PHYSICS

NAG 8 1845 LOUISIANA STATE UNIV – BATON ROUGE 4704
 SECOND GENERATION SPACE LAUNCH INITIATIVES: AN EXPLORATION AND
 ROADMAP TO SOLVING PROBLEMS.
 07/26/2001 – 08/29/2001 FY01: \$9,999 Total: \$9,999
Prin. Invest.: B SARKER
Tech. Officer: MSFC/E SHAW
CASE Category: 49 – ENGINEERING, OTHER

NAG10 139 LOUISIANA STATE UNIV – BATON ROUGE 4705
 PLANT REPRODUCTIVE DEVELOPMENT IN MICROGRAVITY
 06/07/1994 – 12/31/2000 FY01: -\$44 Total: \$533,464
Prin. Invest.: M E MUSGRAVE
Tech. Officer: KSC/W M KNOTT
CASE Category: 55 – AGRICULTURE

NAS 8 01042 LOUISIANA STATE UNIV – BATON ROUGE 4706
 MECHANICS OF GRANULAR MATERIALS (MGM III)
 03/23/2001 – 02/28/2003 FY01: \$120,000 Total: \$120,000
Prin. Invest.: K ALSHIBLI
Tech. Officer: MSFC/B GUYNES
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NCC 2 5320 LOUISIANA STATE UNIV – BATON ROUGE 4707
 SCALABLE SIMULATION & DATA MANAGEMENT FOR COMPUTATIONAL
 NANO-ELECTRONICS ON THE INFORMATION POWER GRID
 05/10/1999 – 08/31/2001 FY01: \$58,000 Total: \$190,000
Prin. Invest.: A NAKANO
Tech. Officer: ARC/S SAINI
CASE Category: 22 – COMPUTER SCIENCE

NCC 2 5440 LOUISIANA STATE UNIV – BATON ROUGE 4708
 MULTISCALE SIMULATIONS OF PROTEIN NANOTUBES ON A G RID
 07/02/2001 – 06/30/2003 FY01: \$95,000 Total: \$95,000
Prin. Invest.: P VASHISTA, R K KALIA, A NAKANO
Tech. Officer: ARC/M MEYAPPAN, ARC/H PATRIDGE
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NCC 5 167 LOUISIANA STATE UNIV – BATON ROUGE 4709
 NASA EPSCOR PROGRAM
 11/02/1996 – 10/31/2001 FY01: \$0 Total: \$2,300,000
Prin. Invest.: J P WEFEL
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NCC 5 393 LOUISIANA STATE UNIV – BATON ROUGE 4710
 NASA EPSCOR PREPARATION PROGRAM
 05/13/1999 – 08/14/2002 FY01: -\$485 Total: \$450,000
Prin. Invest.: J WEFEL
Tech. Officer: HQ/D DETROYE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NCC 8 201 LOUISIANA STATE UNIV – BATON ROUGE 4711
 ADVANCED FLIGHT CONTROLLER DESIGN FOR X-33 USING TRAJECTORY
 LINEARIZATION
 04/24/2000 – 09/30/2000 FY01: -\$844 Total: \$50,938
Prin. Invest.: J ZHU
Tech. Officer: MSFC/C E HALL
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 40035 LOUISIANA STATE UNIV – BATON ROUGE 4712
 TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE
 AND FELLOWSHIP PROGRAM.
 02/13/1997 – 02/28/2001 FY01: -\$127,760 Total: \$845,990
Prin. Invest.: J P WEFEL *Prin. Invest.:* NONE
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 40115 LOUISIANA STATE UNIV – BATON ROUGE 4713
 LOUISIANA SPACE GRANT COLLEGE & FELLOWSHIP PROGRAM
 03/06/2001 – 02/28/2002 FY01: \$384,010 Total: \$384,010
Prin. Invest.: J WEFEL
Tech. Officer: HQ/D DETROYE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT13 52743 LOUISIANA STATE UNIV – BATON ROUGE 4714
 A TESTING OF REMOTE SENSING METHODS AT THE BROUSSARD MOUNDS
 ITE
 07/12/2000 – 07/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: B S GOODWIN
Tech. Officer: SSC/R TRAVIS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4293 NORTHEAST LOUISIANA UNIV 4715
 ANCIENT CRUST AND LACUSTRINE PLAIN SITES FOR MARS
 04/18/1997 – 09/30/2001 FY01: \$0 Total: \$30,000
Prin. Invest.: D A DE HON
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 – ASTRONOMY

NAG 8 1206 SOUTHEASTERN LOUISIANA UNIV 4716
 JOVE
 09/25/1995 – 08/31/2000 FY01: -\$8,687 Total: \$97,498
Prin. Invest.: W A PARKISON, W N NORTON, W N NORTON
Tech. Officer: MSFC/J F DOWDY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 2 1159 SOUTHERN UNIV & A&M COLLEGE 4717
 AIR TRAFFIC CONTROL USING NEURAL NETWORKS
 08/25/1997 – 03/31/2000 FY01: \$0 Total: \$204,000
Prin. Invest.: S K TRIVEDI
Tech. Officer: ARC/G S LEE
CASE Category: 22 – COMPUTER SCIENCE

NAG 2 1273 SOUTHERN UNIV & A&M COLLEGE 4718
 INTERACTIVE CLASSIFICATION TECHNOLOGY
 12/29/1998 – 12/31/2000 FY01: -\$30,434 Total: \$162,044
Prin. Invest.: C DEBESSONET
Tech. Officer: ARC/P NORVIG
CASE Category: 22 – COMPUTER SCIENCE

NAG 2 1468 SOUTHERN UNIV & A&M COLLEGE 4719
 INTEGRATED APPROACH TO REASONING UNDER MULTIPLE PE RSPEC-
 TIVES
 03/28/2001 – 03/14/2002 FY01: \$88,670 Total: \$88,670
Prin. Invest.: C DEBESSONER
Tech. Officer: ARC/R MORRIS, ARC/S LAU
CASE Category: 22 – COMPUTER SCIENCE

NAG 3 1825 SOUTHERN UNIV & A&M COLLEGE 4720
 DEVELOPMENT OF INTEGRATED METHODOLOGY FOR ENGINE C
 OMPONENT DESIGN AND DESIGN OPTIMIZATION
 04/17/1996 – 06/30/2000 FY01: -\$7 Total: \$359,993
Prin. Invest.: R A MIRSHAMS, B Q LI
Tech. Officer: GRC/L BERKE
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 2076 SOUTHERN UNIV & A&M COLLEGE 4721
 KNOWLEDGE PRESERVATION FOR DESIGN OF ROCKET SYSTEM S
 09/26/1997 – 09/15/2001 FY01: \$0 Total: \$100,000
Prin. Invest.: D MOREMAN, J DYER
Tech. Officer: GRC/D F NOGA
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 5066 SOUTHERN UNIV & A&M COLLEGE 4722
 THE ADVANCED THIN IONIZATION CALORIMETER (ATIC) BALLOON EXPERI-
 MENT
 06/17/1996 – 06/30/2001 FY01: \$0 Total: \$497,500
Prin. Invest.: A R FAZELY
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 7157 SOUTHERN UNIV & A&M COLLEGE 4723
 DEVELOPMENT OF BALLOON-BORNE X-RAY/GAMMA DETECTORS FOR
 STUDIES OF HIGH ENERGY ASTROPHYSICAL SOURCE
 03/11/1998 – 02/28/2002 FY01: \$0 Total: \$297,660
Prin. Invest.: J STACY
Tech. Officer: GSFC/J TUELLER
CASE Category: 13 – PHYSICS

NAG 5 8552 SOUTHERN UNIV & A&M COLLEGE 4724
 PROGRAM TO INCREASE THE PURSUIT OF EDUCATION AND LEARNING IN
 ENGINEERING AND SCIENCE
 06/15/1999 - 09/30/2001 FY01: \$0 Total: \$1,000,000
Prin. Invest.: D BAGAYOKO
Tech. Officer: GSFC/B WHITE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10253 SOUTHERN UNIV & A&M COLLEGE 4725
 PARTNERSHIPS IN ASTRONOMY & ASTROPHYSICS EDUCATION &
 RESEARCH AT SOUTHERN UNIV
 01/10/2001 - 01/14/2002 FY01: \$210,000 Total: \$210,000
Prin. Invest.: G STACY
Tech. Officer: GSFC/P SAKIMOTO
CASE Category: 11 - ASTRONOMY

NAG 8 1495 SOUTHERN UNIV & A&M COLLEGE 4726
 RELATIONSHIP BETWEEN STRUCTURE AND MAGNETIC AND ELECTRON
 TRANSPORT PROPERTIES IN R1-AXMN03
 06/01/1998 - 05/31/2002 FY01: \$0 Total: \$238,892
Prin. Invest.: H L LAWRENCE
Tech. Officer: MSFC/D SCHMIDT
CASE Category: 13 - PHYSICS

NAG 8 1536 SOUTHERN UNIV & A&M COLLEGE 4727
 MODELING AND ANALYSIS OF HEAT-ACTIVATED THERMAL COUPLES
 06/08/1998 - 06/30/2001 FY01: \$0 Total: \$298,750
Prin. Invest.: M A STUNNLEFIELD
Tech. Officer: MSFC/G GORDON
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1625 SOUTHERN UNIV & A&M COLLEGE 4728
 FIBERGLAST INSTRUMENT DEVELOPMENT
 09/22/1999 - 08/31/2001 FY01: \$99,510 Total: \$199,020
Prin. Invest.: J G STACY
Tech. Officer: MSFC/G J FISHMAN
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 8 1627 SOUTHERN UNIV & A&M COLLEGE 4729
 EDUCATION GRANT "AN INTEGRATED THEORY AND LAB LEARNING
 EXPERIENCE
 09/09/1999 - 09/08/2002 FY01: \$0 Total: \$140,582
Prin. Invest.: L L LAURENCE
Tech. Officer: MSFC/W J LOVE, MSFC/A C BEAM
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1633 SOUTHERN UNIV & A&M COLLEGE 4730
 VIRTUAL REALITY INNOVATIONS IN TRAINING AND SCIENCE, ENGINEERING
 AND MATHEMATICS EDUCATION.
 09/15/1999 - 07/31/2000 FY01: \$0 Total: \$99,354
Prin. Invest.: M C DUNN
Tech. Officer: MSFC/A BEAM, MSFC/W LOVE
CASE Category: 21 - MATHEMATICS

NAG10 210 SOUTHERN UNIV & A&M COLLEGE 4731
 RESEARCH & EDUCATION EXPERIENCES FOR MINORITY UNDERGRAD-
 UATES IN COMPOSITE MATERIAL
 09/01/1997 - 01/31/2001 FY01: -\$9,909 Total: \$390,091
Prin. Invest.: S S CHEHL
Tech. Officer: KSC/S MCDANIELS
CASE Category: 49 - ENGINEERING, OTHER

NAG13 98003 SOUTHERN UNIV & A&M COLLEGE 4732
 NOISE REMOVAL DECONVOLUTION AND VIBRATION RELAXA- TION STUDIES
 TO ENHANCE PLUME DIAGNOSTIC TECH.
 03/11/1998 - 05/14/2002 FY01: \$0 Total: \$299,772
Prin. Invest.: A AMINI
Tech. Officer: SSC/B B ST. CYR
CASE Category: 49 - ENGINEERING, OTHER

NAG13 98013 SOUTHERN UNIV & A&M COLLEGE 4733
 MATHEMATICS AND SCIENCE ENRICHMENT ACTIVITES FOR MIDDLE AND
 HIGH SCHOOL STUDENTS
 07/15/1998 - 06/30/2002 FY01: \$0 Total: \$300,000
Prin. Invest.: M SUBBLEFIELD
Tech. Officer: SSC/A JOYCE
CASE Category: 21 - MATHEMATICS

NCC 8 138 SOUTHERN UNIV & A&M COLLEGE 4734
 RESEARCH "COMPOSITE TRUSS DESIGN OPTIMIZATION"
 07/15/1997 - 07/14/2000 FY01: \$0 Total: \$331,966
Prin. Invest.: C WANG
Tech. Officer: MSFC/D FORD
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 8 156 SOUTHERN UNIV & A&M COLLEGE 4735
 FOR RESEARCH ENTITLED: "STRUCTURAL MATERIALS FAILURE ANALYSIS
 DATABASE"
 09/28/1998 - 08/31/2001 FY01: \$48,638 Total: \$198,638
Prin. Invest.: J DYER
Tech. Officer: MSFC/G JERMAN
CASE Category: 29 - MATH/COMPUTER SCI, OTHER

NCC13 00010 SOUTHERN UNIV & A&M COLLEGE 4736
 PROGRAM TO INCREASE PURSUIT OF EDUCATION AND LEARNING IN ENGI-
 NEERING AND SCIENCES (PIPLINES)
 09/25/2000 - 09/24/2002 FY01: \$913,800 Total: \$1,828,800
Prin. Invest.: D BAGAYOKO
Prin. Invest.: NONE
Tech. Officer: SSC/R TRAVIS
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT13 52720 SOUTHERN UNIV & A&M COLLEGE 4737
 1999 NASA/ASEE SUMMER FACILITY FELLOWSHIP PROGRAM AT STENNIS
 SPACE CENTER
 04/01/1999 - 09/30/2000 FY01: -\$2,778 Total: \$202,222
Prin. Invest.: E HILDRETH
Tech. Officer: SSC/A JOYCE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT13 52744 SOUTHERN UNIV & A&M COLLEGE 4738
 RESEARCH DESIGN AND METHODOLOGY FOR A REMOTE SENSING
 SYSTEM TO PROVIDE NASA/SSC SAFETY
 07/12/2000 - 07/31/2001 FY01: -\$12,425 Total: \$9,575
Prin. Invest.: G M LANE
Tech. Officer: SSC/R TRAVIS
CASE Category: 49 - ENGINEERING, OTHER

NAG13 52 SOUTHERN UNIV - NEW ORLEANS 4739
 NASA/SUNO PARTNERSHIP FOR EXCELLENCE IN MATH & SCIENCE EDUCA-
 TION
 06/30/1997 - 04/30/2000 FY01: -\$58,748 Total: \$328,389
Prin. Invest.: P HEATH, R PERRY
Tech. Officer: JSC/N SULLIVAN
CASE Category: 21 - MATHEMATICS

<p>NAG 2 1378 TULANE UNIV 4740 EFFECT OF SIMULATED MICROGRAVITY ON GENE EXPRESSION IN THE ENTERIC PATHOGEN SALMONELLA TYPHIMURIUM 08/19/1999 – 07/31/2002 FY01: \$130,416 Total: \$334,716 <i>Prin. Invest.:</i> C A NICKERSON <i>Tech. Officer:</i> ARC/M M AVERNER, ARC/R D MACELROY <i>CASE Category:</i> 51 – BIOLOGY (EXCLUDING ENVIR)</p>	<p>NAG 3 1906 UNIV OF NEW ORLEANS 4748 GROWTH AND MORPHOLOGY OF PHASE SEPARATING SUPERCRITICAL FLUIDS 06/10/1996 – 06/09/2000 FY01: \$0 Total: \$474,998 <i>Prin. Invest.:</i> J P DROSKE <i>Tech. Officer:</i> GRC/W B ALSTON <i>CASE Category:</i> 12 – CHEMISTRY</p>
<p>NAG 8 1362 TULANE UNIV 4741 FOR RESEARCH--PRODUCTION OF 125 DIODIDE BY RENAL EPITHELIAL CELLS IN SIMULATED MICROGRAVITY CULTURE 06/01/1997 – 11/30/2001 FY01: \$50,000 Total: \$740,000 <i>Prin. Invest.:</i> T HAMMOND <i>Tech. Officer:</i> JSC/S R GONDA <i>CASE Category:</i> 56 – MEDICAL</p>	<p>NAG 3 2447 UNIV OF NEW ORLEANS 4749 GEOPHYSICAL FLOW EXPERIMENT IN A ROTATING SPHERICAL CAPACITOR 05/30/2000 – 11/30/2003 FY01: \$100,880 Total: \$135,015 <i>Prin. Invest.:</i> J HEGSETH <i>Tech. Officer:</i> GRC/F P CHIARAMONTEH <i>CASE Category:</i> 49 – ENGINEERING, OTHER</p>
<p>NAG 9 826 TULANE UNIV 4742 CELL CULTIVATION 08/09/1995 – 01/15/2001 FY01: \$0 Total: \$424,000 <i>Prin. Invest.:</i> K O'CONNOR <i>Tech. Officer:</i> JSC/N PELLIS <i>CASE Category:</i> 51 – BIOLOGY (EXCLUDING ENVIR)</p>	<p>NAG 8 1116 UNIV OF NEW ORLEANS 4750 JOVE 01/10/1995 – 05/31/2000 FY01: -\$2,112 Total: \$141,852 <i>Prin. Invest.:</i> J J HEGSETH, M L JOHNSON, J J HOWARD <i>Tech. Officer:</i> MSFC/F SIX <i>CASE Category:</i> 99 – MULTI INTERDISCIPLINARY, OTHER</p>
<p>NAG 9 1344 TULANE UNIV 4743 GENETICALLY ENGINEERED COLLAGEN II FOR SMART BIOMATERIALS 08/22/2001 – 09/30/2004 FY01: \$44,000 Total: \$44,000 <i>Prin. Invest.:</i> T HAMMOND <i>Tech. Officer:</i> JSC/D RISEN <i>CASE Category:</i> 56 – MEDICAL</p>	<p>NCC 2 5376 UNIV OF NEW ORLEANS 4751 LIFE IN EXTREME ENVIRONMENTS RESEARCH 03/30/2000 – 03/31/2001 FY01: \$0 Total: \$15,000 <i>Prin. Invest.:</i> Z ROSENZWEIG <i>Tech. Officer:</i> ARC/M T FLYNN, ARC/J HINES <i>CASE Category:</i> 51 – BIOLOGY (EXCLUDING ENVIR)</p>
<p>NAG 9 1350 TULANE UNIV 4744 NOVEL TISSUE ASSEMBLIES; MODELS FOR ENTERIC PATHOGENESIS 08/08/2001 – 09/30/2004 FY01: \$63,000 Total: \$63,000 <i>Prin. Invest.:</i> C A NICKERSON <i>Tech. Officer:</i> JSC/D RISEN <i>CASE Category:</i> 56 – MEDICAL</p>	<p>NCC 8 223 UNIV OF NEW ORLEANS 4752 DEVELOPMENT OF INNOVATIVE ADVANCED COMPOSITE MANUFACTURING TECHNOLOGIES UTILIZING NCAM/LOUISIANA PARTNERSHIP 03/19/2001 – 03/18/2006 FY01: \$2,700,000 Total: \$2,700,000 <i>Prin. Invest.:</i> J N CRISP <i>Tech. Officer:</i> MSFC/J VICKERS, MSFC/M NIEDERMEYER <i>CASE Category:</i> 49 – ENGINEERING, OTHER</p>
<p>NAG 9 1351 TULANE UNIV 4745 SPATIAL ORGANIZATION WITHIN PROSTATE CANCER SPHEROIDS 08/01/2001 – 09/30/2004 FY01: \$74,000 Total: \$74,000 <i>Prin. Invest.:</i> K C O'CONNOR, S CLEJAN, D C.R. DE KEE <i>Tech. Officer:</i> JSC/D RISEN <i>CASE Category:</i> 56 – MEDICAL</p>	<p>NGT13 52714 UNIV OF NEW ORLEANS 4753 DIONNEI-MELISSA DEBOSE/USING SINDA/FLUINT TO DEVELOP COMPUTER MODEL APPLICATIONS FOR SSC 10/09/1997 – 07/31/2000 FY01: \$0 Total: \$55,000 <i>Prin. Invest.:</i> E RUSSO <i>Tech. Officer:</i> SSC/A JOYCE <i>CASE Category:</i> 22 – COMPUTER SCIENCE</p>
<p>NGT13 52722 TULANE UNIV 4746 DYNAMIC PARTICLE PROCESSES & BIOGEOCHEMICAL MATERIAL FLUX IN RIVER DOMINATED OCEAN MARGINS 07/28/1999 – 07/31/2001 FY01: \$22,000 Total: \$66,000 <i>Prin. Invest.:</i> B MCKEE <i>Tech. Officer:</i> JSC/R TRAVIS <i>CASE Category:</i> 39 – ENVIRONMENTAL SCIENCE, OTHER</p>	<p>NGT13 52719 UNIV OF NEW ORLEANS 4754 THERMAL AND MECHANICAL ANALYSIS OF HYDROGEN TRANSFER VALVES 07/13/1998 – 07/31/2000 FY01: -\$2,419 Total: \$107,581 <i>Prin. Invest.:</i> Y TRAYHAM <i>Tech. Officer:</i> SSC/A JOYCE <i>CASE Category:</i> 41 – AERONAUTICAL ENGINEERING</p>
<p>NGT13 52745 TULANE UNIV 4747 SOURCE AND TRANSPORT OF ORGANIC CARBON IN THE WATER COLUMN AND SEDIMENT OF THE MISSISSIPPI PLUME 07/12/2000 – 07/31/2001 FY01: -\$14,637 Total: \$7,355 <i>Prin. Invest.:</i> J CORBINO, T BIANCHI <i>Tech. Officer:</i> SSC/R TRAVIS <i>CASE Category:</i> 39 – ENVIRONMENTAL SCIENCE, OTHER</p>	<p>NGT13 52721 UNIV OF NEW ORLEANS 4755 NUMERICAL ANALYSIS OF THERMAL STRATIFICATION AND BEYSERING IN LIQUID PROPELLANT STORAGE TANKS 07/22/1999 – 07/31/2002 FY01: \$22,000 Total: \$66,000 <i>Prin. Invest.:</i> K M AKYUZLU <i>Tech. Officer:</i> SSC/R TRAVIS <i>CASE Category:</i> 21 – MATHEMATICS</p>

NGT13 52740 UNIV OF NEW ORLEANS 4756
OPTIMIZATION OF SPACE FLIGHT SYTEM GROUND-BASED PROCESSING
05/22/2000 – 05/31/2001 FY01: \$0 Total: \$22,000
Prin. Invest.: R SAXTON
Tech. Officer: SSC/R TRAVIS
CASE Category: 49 – ENGINEERING, OTHER

NGT13 52749 UNIV OF NEW ORLEANS 4757
FACTORS AFFECTING THE EARLY LIFE HISTORY OF FISHES IN LAKE PONT-
CHATRAIN, LOUISIANA
06/08/2001 – 06/30/2002 FY01: \$21,650 Total: \$21,650
Prin. Invest.: J CORBINO
Tech. Officer: SSC/R MILLER
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 2 1423 UNIV OF SOUTHWESTERN LOUISIANA 4758
ANALYSIS OF THE GRAVISENSING SYSTEM IN CHARA
07/18/2000 – 06/30/2002 FY01: \$96,669 Total: \$148,994
Prin. Invest.: K H HASENSTEIN
Tech. Officer: ARC/R D MACELROY, ARC/M M AVERNER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG10 190 UNIV OF SOUTHWESTERN LOUISIANA 4759
RESPONSE SYSTEM OF PLANTS
03/25/1996 – 09/30/2002 FY01: \$135,000 Total: \$577,358
Prin. Invest.: K H HASENSTEIN
Tech. Officer: KSC/W M KNOTT
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 8 1609 XAVIER UNIV – LOUISIANA 4760
"TEACHER AND CURRICULUM ENHANCEMENT PROGRAM"
05/25/1999 – 05/24/2002 FY01: \$200,000 Total: \$600,000
Prin. Invest.: R P HALE
Tech. Officer: MSFC/W LOVE
CASE Category: 21 – MATHEMATICS

NAG13 53 XAVIER UNIV – LOUISIANA 4761
PROJECT KAIZEN SAME
06/19/1997 – 06/17/2000 FY01: -\$24,724 Total: \$352,147
Prin. Invest.: R P HALE
Tech. Officer: SSC/N SULLIVAN
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG13 98006 XAVIER UNIV – LOUISIANA 4762
SEEING THE EARTH: USING REMOTE SENSING TECHNOLOGIES TO STIR
IMAGINATION OF STUDENTS
04/20/1998 – 10/19/2001 FY01: \$0 Total: \$300,000
Prin. Invest.: S O'CONNOR
Tech. Officer: JSC/R TRAVIS
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 90084 XAVIER UNIV – LOUISIANA 4763
SOAR 2 SUMMER BRIDGE PROGRAM
09/09/1997 – 04/30/2001 FY01: \$0 Total: \$590,023
Prin. Invest.: G BAKER
Tech. Officer: GSFC/L RANDOLPH
CASE Category: 49 – ENGINEERING, OTHER

NGT 5 90086 XAVIER UNIV – LOUISIANA 4764
SOAR 2 SUMMER BRIDGE PROGRAM
05/07/2001 – 04/30/2002 FY01: \$150,000 Total: \$150,000
Prin. Invest.: A Z CHATTERS
Tech. Officer: GSFC/C PERSON
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

MAINE

NAG 5 6002 UNIV OF MAINE – ORONO 4765
SOILS, WATER, PEOPLE, AND PIXELS: A STUDY OF NANG
09/11/1997 – 07/14/2000 FY01: \$0 Total: \$569,993
Prin. Invest.: R RINDFUSS
Tech. Officer: HQ/A JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6041 UNIV OF MAINE – ORONO 4766
TIME-SERIES FOREST CHANGE, LAND-COVER/LAND-USE CON ECONOMIC
DRIVING FORCES IN THE NORTHERN PETEN DIS
07/23/1997 – 07/31/2001 FY01: \$0 Total: \$232,000
Prin. Invest.: S SADER
Tech. Officer: GSFC/A JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6558 UNIV OF MAINE – ORONO 4767
BIOLOGICAL-PHYSICAL COUPLING IN THE GULF OF MAINE: SATELLITE
AND MODEL SSTUDIES IN PHYTOPLANKTON VA
10/27/1997 – 10/31/2000 FY01: \$0 Total: \$351,586
Prin. Invest.: A C THOMAS
Tech. Officer: GSFC/J A MARRA
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6604 UNIV OF MAINE – ORONO 4768
PHYTOPLANKTON VARIABILITY IN EASTERN BOUNDARY CURR ENTS:
CONNECTIONS TO PHYSICAL FORCING
12/11/1997 – 11/30/2001 FY01: \$109,650 Total: \$498,939
Prin. Invest.: A THOMAS
Tech. Officer: GSFC/J MARRA
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 8712 UNIV OF MAINE – ORONO 4769
MONITORING THE MESOAMERICAN BIOLOGICAL CORRIDOR
07/26/1999 – 05/31/2002 FY01: \$90,054 Total: \$270,168
Prin. Invest.: S A SADER
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 9913 UNIV OF MAINE – ORONO 4770
RASCAL-A REMOTE AUTONOMOUS SYSTEM FOR THE CONTROL OF ALTI-
METRY
09/14/2000 – 09/14/2002 FY01: \$0 Total: \$12,619
Prin. Invest.: G S HAMILTON
Tech. Officer: GSFC/J ZWALLY
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 9959 UNIV OF MAINE – ORONO 4771
CIS NET: IN SITU AND REMOTE MONITORING OF PRODUCTI VITY AND
NUTRIENT CYCLES IN PUGET SOUND
09/12/2000 – 12/31/2001 FY01: \$71,709 Total: \$147,267
Prin. Invest.: M PERRY
Tech. Officer: GSFC/J MARRA
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 10035 UNIV OF MAINE – ORONO 4772
SURFACE GPS MEASUREMENTS FOR ICE SHEET MASS BALANCE & FIDU-
CIAL CONTROL OF ALTIMETRY
10/24/2000 – 12/31/2001 FY01: \$40,742 Total: \$40,742
Prin. Invest.: G HAMILTON
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 10620 **UNIV OF MAINE - ORONO** **4773**
 MULTI-SENSOR & MODELING ANALYSES OF GULF OF MAINE PHYTO-
 PLANKTON VARIABILITY
 03/19/2001 - 03/31/2002 FY01: \$120,823 Total: \$120,823
Prin. Invest.: A THOMAS
Tech. Officer: GSFC/J MARRA
CASE Category: 33 - OCEANOGRAPHY

NAG 5 11132 **UNIV OF MAINE - ORONO** **4774**
 ASTTEX VALIDATION MOORING
 07/26/2001 - 07/31/2002 FY01: \$20,000 Total: \$20,000
Prin. Invest.: D A BYRNE
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG13 98008 **UNIV OF MAINE - ORONO** **4775**
 FOREST MONITORING AND MULTISENSOR RESEARCH IN MAINE'S
 INDUSTRIAL FOREST
 04/30/1998 - 04/29/2002 FY01: \$250,000 Total: \$650,000
Prin. Invest.: S SADER
Tech. Officer: JSC/B GRAHAM
CASE Category: 55 - AGRICULTURE

NGT 5 30353 **UNIV OF MAINE - ORONO** **4776**
 THE ROLE OF CLAY MINERALOGY ON SOIL C ACCUMULATION & LOSS
 ALONG A TROPICAL FOREST ELEVATION (CLIMATE
 08/24/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: L M MAYER
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30426 **UNIV OF MAINE - ORONO** **4777**
 DISTRIBUTION OF SNOW ACCUMULATION AND MASS BALANCE ACROSS
 THE WESTANTARCTIC ICESHEET/STUDENT
 09/19/2001 - 09/30/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: G HAMILTON
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT13 52751 **UNIV OF MAINE - ORONO** **4778**
 NEURAL NETWORK MODELING OF CHLOROPHYLL-A CONCENTRATION
 FROM REMOTE SENSING DATA
 06/08/2001 - 06/30/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: W SLADE
Tech. Officer: SSC/R MILLER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9128 **UNIV OF SOUTHERN MAINE** **4779**
 ACCESS EARTH: PROMOTING ACCESSIBILITY TO THE EARTH SYSTEM
 SCIENCES FOR PERSONS WITH DISABILITIES
 03/01/2000 - 02/28/2002 FY01: \$84,666 Total: \$145,277
Prin. Invest.: S M LOCKE
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

MARYLAND

NAG 5 2829 **BOWIE STATE UNIV** **4780**
 MODEL-BASED VQ FOR MULTISPECTRAL EARTH IMAGE DATA COMPRES-
 SION
 12/14/1994 - 06/30/2001 FY01: \$0 Total: \$164,231
Prin. Invest.: M MAREBOYANA
Tech. Officer: GSFC/J TILTON
CASE Category: 11 - ASTRONOMY

NAG 5 6476 **BOWIE STATE UNIV** **4781**
 ASSESSING THE IMPACT OF EXPANDING URBAN LAND USE ON AGRICUL-
 TURAL PRODUCTIVITY USING REMOTE S
 12/08/1997 - 12/14/2001 FY01: \$0 Total: \$471,184
Prin. Invest.: W LAWRENCE
Tech. Officer: GSFC/M L IMHOFF
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7225 **BOWIE STATE UNIV** **4782**
 SIECA IS A PROGRAM FOR COLLEGE INTERNS.
 04/09/1998 - 06/14/2000 FY01: \$0 Total: \$386,129
Prin. Invest.: J LANGDON
Tech. Officer: GSFC/D MENCHAN
CASE Category: 22 - COMPUTER SCIENCE

NAG 5 7669 **BOWIE STATE UNIV** **4783**
 SUPPORT FOR DATA ANALYSIS, PRESENTATION, FIELD & MEETING
 TRAVEL NASA/DOD LEGACY CENTRAL AMERICA DEPL
 09/28/1998 - 09/30/2001 FY01: \$0 Total: \$163,957
Prin. Invest.: W LAWRENCE
Tech. Officer: GSFC/M L IMHOFF
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8370 **BOWIE STATE UNIV** **4784**
 A FAST TRACK PLAN TOWARD TEACHER CERTIFICATION FOR THE PUBLIC
 SCHOOL SYSTEM OF PRINCE GEORGE'S C
 03/12/1999 - 02/28/2002 FY01: \$200,000 Total: \$600,000
Prin. Invest.: D W CRIM
Tech. Officer: GSFC/D MENCHAN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 8787 **BOWIE STATE UNIV** **4785**
 TRAINING UNDERGRADUATES IN SPACE SCIENCE AND SATELLITE OPERA-
 TION AND TECHNOLOGY
 08/31/1999 - 11/30/2001 FY01: \$0 Total: \$200,000
Prin. Invest.: N WAKIM
Tech. Officer: GSFC/P CROUSE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9458 **BOWIE STATE UNIV** **4786**
 A 2000 SUMMER INST IN ENGINEERING & COMPUTER
 04/14/2000 - 10/31/2001 FY01: \$0 Total: \$207,900
Prin. Invest.: D LANGDON
Tech. Officer: GSFC/D MENCHAN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9544 **BOWIE STATE UNIV** **4787**
 GODDARD STUDENT INTERNSHIP PROGRAM (GSIP)
 05/03/2000 - 05/14/2001 FY01: \$0 Total: \$49,868
Prin. Invest.: N T WAKIM
Tech. Officer: GSFC/M S BURRELL
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 5 9843 **BOWIE STATE UNIV** **4788**
 PROJECT ACCESS (ACADEMY FOR THE COLLABORATIVE ENHANCEMENT
 OF STUDENT SKILLS)
 08/07/2000 – 09/30/2001 FY01: \$0 Total: \$100,000
Prin. Invest.: A L GASKINS–NEDD
Tech. Officer: GSFC/C HOLLINGSWORTH
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10034 **BOWIE STATE UNIV** **4789**
 CONTINUED SUPPORT OF EOS-IDS URBAN IMPACTS ON GLOBAL
 PRODUCTIVITY
 10/10/2000 – 12/14/2001 FY01: \$59,901 Total: \$59,901
Prin. Invest.: W LAWRENCE
Tech. Officer: GSFC/M L IMHOFF
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 10697 **BOWIE STATE UNIV** **4790**
 TO MANAGE A 2001 SUMMER INST IN ENGINEERING & COMPUTER
 APPLICATIONS PROGRAM
 04/24/2001 – 04/30/2002 FY01: \$207,800 Total: \$207,800
Prin. Invest.: D LANGDON
Tech. Officer: GSFC/D MENCHAN
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 11361 **BOWIE STATE UNIV** **4791**
 BOWIE SEEKS TO INTEGRATE THE WIRE MISSION INTO ITS BSOC
 PROGRAM TO PROVIDE OPPORTUNITIES TO STUDENTS
 09/27/2001 – 09/30/2003 FY01: \$64,000 Total: \$64,000
Prin. Invest.: N T WAKIM
Tech. Officer: GSFC/P L CROUSE
CASE Category: 22 – COMPUTER SCIENCE

NCC 5 232 **BOWIE STATE UNIV** **4792**
 MODEL INSTS FOR EXCELLENCE – PERIOD OF PERFORMANCE
 09/22/1997 – 09/30/2000 FY01: \$0 Total: \$4,765,804
Prin. Invest.: N WAKIM
Tech. Officer: GSFC/L RANDOLPH
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NCC 5 235 **BOWIE STATE UNIV** **4793**
 AN AGENT-BASED INFORMATION PROCESSING SYSTEM CO-OPERATION
 WITH BOWIE STATE UNIVERSITY
 11/07/1997 – 06/14/2001 FY01: \$0 Total: \$150,000
Prin. Invest.: S SRIVASTAVA
Tech. Officer: GSFC/W TRUSZKOWSKI
CASE Category: 22 – COMPUTER SCIENCE

NCC 5 446 **BOWIE STATE UNIV** **4794**
 ANALYSIS & MODIFICATION OF NASA WEB BASED SOFTWARE
 07/10/2000 – 07/14/2001 FY01: \$0 Total: \$70,082
Prin. Invest.: D CARVALO
Tech. Officer: GSFC/H PARK
CASE Category: 22 – COMPUTER SCIENCE

NCC 5 507 **BOWIE STATE UNIV** **4795**
 FOLIAR OPTICAL PROPERTY MEASUREMENTS OF BOREAL SPECIES (A
 CONTINUATION OF THE BOREAL RESEARCH PROGRAM)
 08/07/2000 – 08/14/2002 FY01: \$0 Total: \$23,625
Prin. Invest.: W T LAWRENCE
Tech. Officer: GSFC/E MIDDLETON
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 5 516 **BOWIE STATE UNIV** **4796**
 MODEL INSTS FOR EXCELLENCE
 10/05/2000 – 09/30/2001 FY01: \$1,529,000 Total: \$1,529,000
Prin. Invest.: N T WAKIM
Tech. Officer: GSFC/D MENCHAN
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 9375 **CAPITOL COLLEGE** **4797**
 SUMMER 2000 PRE-ENGINEERING PROGRAM AT CAPITOL COLLEGE
 03/31/2000 – 04/30/2001 FY01: \$0 Total: \$53,900
Prin. Invest.: D JARRELL
Tech. Officer: GSFC/D MENCHAN
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10560 **CAPITOL COLLEGE** **4798**
 2001 PRE-ENGINEERING PROGRAM AT CAPITOL COLLEGE
 03/14/2001 – 09/30/2001 FY01: \$55,000 Total: \$55,000
Prin. Invest.: D MENCHAN
Tech. Officer: GSFC/D JARRELL
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NCC 5 400 **CHARLES COUNTY COMMUNITY COLLEGE** **4799**
 LABORATORY INVESTIGATION OF THE FORMATION, PROPERTIES AND
 METAMORPHISM OF PRE-SOLAR MATERIALS
 05/14/1999 – 05/31/2002 FY01: \$25,464 Total: \$67,586
Prin. Invest.: G KRAUSE
Tech. Officer: GSFC/J A NUTH
CASE Category: 12 – CHEMISTRY

NAG 1 2043 **JOHNS HOPKINS UNIV** **4800**
 INFERRING ASPECTS OF TRANSPORT AND MIXING IN THE STRATOSPHERE
 AND TROPOSPHERE FROM CHEMICAL TRACER
 04/01/1998 – 09/30/2001 FY01: \$0 Total: \$208,022
Prin. Invest.: D W WAUGH
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 2194 **JOHNS HOPKINS UNIV** **4801**
 DYNAMICAL COUPLING OF THE TROPOSPHERE WITH THE POLAR STRATOSPHERE
 05/14/1999 – 04/30/2002 FY01: \$45,658 Total: \$124,376
Prin. Invest.: D W WAUGH
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 2257 **JOHNS HOPKINS UNIV** **4802**
 METHODS FOR REFLECTED GLOBAL POSITIONING SYSTEM (GPS) DATA
 COLLECTION AND ANALYSIS
 01/11/2000 – 09/30/2001 FY01: \$110,700 Total: \$339,000
Prin. Invest.: M S ASHER, R K RANEY, T ELFOUHAÏLY
Tech. Officer: LARC/S J KATZBERG, GSFC/J L GARRISON
CASE Category: 33 – OCEANOGRAPHY

NAG 1 2270 **JOHNS HOPKINS UNIV** **4803**
 PHOTOLYSIS RATE COEFFICIENT CALCULATIONS IN SUPPORT OF SOLVE
 CAMPAIGN
 02/17/2000 – 09/30/2001 FY01: \$0 Total: \$188,000
Prin. Invest.: S A LLOYD
Tech. Officer: LARC/L R POOLE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 2304 **JOHNS HOPKINS UNIV** **4804**
 NONDESTRUCTIVE EVALUATION OF SPACECRAFT & AIRCRAFT WIRING
 06/06/2000 – 06/30/2003 FY01: \$100,000 Total: \$150,000
Prin. Invest.: J M GREEN
Tech. Officer: LARC/W P WINFREE
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 1 2329 **JOHNS HOPKINS UNIV** **4805**
 COMPREHENSIVE ASSESSMENT OF HEALTH AND THE AIR- CRAFT CABIN
 ENVIRONMENT: PHASE I
 09/26/2000 – 09/30/2002 FY01: \$0 Total: \$458,005
Prin. Invest.: P S LEES
Tech. Officer: LARC/R R ARTCLIFF
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 01059 **JOHNS HOPKINS UNIV** **4806**
 INTEGRATED POWER SOURCE DEVELOPMENT
 04/12/2001 – 10/30/2001 FY01: \$25,000 Total: \$25,000
Prin. Invest.: P D SCHWARTZ, A L LEW
Tech. Officer: LARC/Q A SHAMS
CASE Category: 45 – ELECTRICAL ENGR

NAG 2 1392 **JOHNS HOPKINS UNIV** **4807**
 NSTARS PROJECT SUPPORT AND RESEARCH ON NEARBY STAR S
 02/01/2000 – 12/31/2001 FY01: \$0 Total: \$116,988
Prin. Invest.: T HENRY
Tech. Officer: ARC/L CAROFF
CASE Category: 11 – ASTRONOMY

NAG 2 1476 **JOHNS HOPKINS UNIV** **4808**
 KNOWLEDGE RETENTION TOOLS FOR LONG DURATION MISSIO NS
 04/20/2001 – 04/14/2002 FY01: \$180,000 Total: \$180,000
Prin. Invest.: K J HEERES
Tech. Officer: ARC/H STEWART, ARC/M SHIRLEY
CASE Category: 22 – COMPUTER SCIENCE

NAG 2 1477 **JOHNS HOPKINS UNIV** **4809**
 MINIME DIAGNOSTICS ENGINE DEVELOPMENT SUPPORT
 04/20/2001 – 10/31/2001 FY01: \$150,000 Total: \$150,000
Prin. Invest.: K J HEERES
Tech. Officer: ARC/M SHIRLEY, ARC/H STEWART
CASE Category: 22 – COMPUTER SCIENCE

NAG 3 1815 **JOHNS HOPKINS UNIV** **4810**
 EXPERIMENTAL INVESTIGATION; POOL BOILING HEAT TRAN SFER
 ENHANCEMENT IN THE PRESENCE OF ELECTRIC FIEL
 03/25/1996 – 05/14/2002 FY01: \$0 Total: \$352,889
Prin. Invest.: D HERMAN
Tech. Officer: GRC/H K NAHRA, GRC/B MOTIL
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1923 **JOHNS HOPKINS UNIV** **4811**
 MARANGONI EFF ON DROP DEFORM & BREAK UP IN A EXTEN FLOW: THE
 ROLE OF SURFACTANT PHYS CHEMISTRY
 07/18/1996 – 07/17/2000 FY01: \$0 Total: \$305,955
Prin. Invest.: K J STEBE
Tech. Officer: GRC/B S SINGH
CASE Category: 43 – CHEMICAL ENGR

NAG 3 1924 **JOHNS HOPKINS UNIV** **4812**
 ACOUSTIC BUBBLE REMOVAL FROM BOILING SURFACES
 07/18/1996 – 12/31/2000 FY01: \$0 Total: \$377,518
Prin. Invest.: A PROSPERETTI, H N OGUZ, E H TRINH
Tech. Officer: GRC/B S SINGH
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1954 **JOHNS HOPKINS UNIV** **4813**
 SURFACTANT BASED CRITICAL PHENOMENA IN MICROGRAVIT Y
 08/19/1996 – 08/31/2001 FY01: \$0 Total: \$241,500
Prin. Invest.: M E PAULATIS
Tech. Officer: GRC/B SINGH
CASE Category: 43 – CHEMICAL ENGR

NAG 3 2118 **JOHNS HOPKINS UNIV** **4814**
 PRODUCTION AND REMOVAL OF GAS BUBBLES IN MICROGRAV ITY
 02/26/1998 – 01/07/2002 FY01: \$75,866 Total: \$296,198
Prin. Invest.: H N OGUZ
Tech. Officer: GRC/H K NAHRA
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 3 2333 **JOHNS HOPKINS UNIV** **4815**
 ANALYTICAL AND EXPERIMENTAL INVESTIGATIONS OF A HY DROCARBON
 FUELED AIR-AUGMENTED ROCKET ENGINE CYCL
 02/16/2000 – 12/31/2001 FY01: \$246,612 Total: \$301,612
Prin. Invest.: T RICE
Tech. Officer: GRC/T D SMITH
CASE Category: 41 – AERONAUTICAL ENGR

NAG 3 2362 **JOHNS HOPKINS UNIV** **4816**
 ACOUSTIC BUBBLE REMOVAL FROM BOILING SURFACES AND ITS OPTI-
 MIZATION
 04/03/2000 – 11/30/2003 FY01: \$80,987 Total: \$126,252
Prin. Invest.: A PROSPERETTI
Tech. Officer: GRC/M M HASAN
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 2460 **JOHNS HOPKINS UNIV** **4817**
 DESIGN OF EXHAUST NOZZLES FOR THE RBCC-GTX CONCEPT DESIGN
 OF EXHAUST NOZZLES FOR THE RBCC-GTX CONCEP
 06/09/2000 – 02/01/2002 FY01: \$48,033 Total: \$93,033
Prin. Invest.: T RICE
Tech. Officer: GRC/T D SMITH
CASE Category: 41 – AERONAUTICAL ENGR

NAG 3 2569 **JOHNS HOPKINS UNIV** **4818**
 PULSED DETONATION WAVE ENGINE COMPONENT DESIGN AND ANALYSIS
 STUDY
 03/23/2001 – 11/30/2002 FY01: \$180,000 Total: \$180,000
Prin. Invest.: P WALTRUP
Tech. Officer: GRC/H D PERKINS
CASE Category: 41 – AERONAUTICAL ENGR

NAG 5 2232 **JOHNS HOPKINS UNIV** **4819**
 RECEIVER DESIGN, PERFORMANCE ANALYSIS, AND EVLUATI ON FOR
 SPACE-BORNE LASER ALTIMETERS AND
 04/08/1993 – 09/30/1999 FY01: -\$502 Total: \$829,305
Prin. Invest.: M DAVIDSON, X SUN
Tech. Officer: GSFC/P MILLAR
CASE Category: 45 – ELECTRICAL ENGR

NAG 5 3255	JOHNS HOPKINS UNIV	4820	NAG 5 4549	JOHNS HOPKINS UNIV	4828
THE STRUCTURE OF ACTIVE GALACTIC NUCLEI			ANALYSIS OF EMIC WAVE GENERATION AND PROPAGATION U		
06/06/1996 - 12/31/2001	FY01: \$0	Total: \$317,700	05/06/1997 - 04/30/2000	FY01: \$0	Total: \$210,000
<i>Prin. Invest.:</i> G A KRISS			<i>Prin. Invest.:</i> D E ERLANDSON		
<i>Tech. Officer:</i> GSFC/D WEST			<i>Tech. Officer:</i> GSFC/J BOHLIN		
<i>CASE Category:</i> 11 - ASTRONOMY			<i>CASE Category:</i> 13 - PHYSICS		
NAG 5 3448	JOHNS HOPKINS UNIV	4821	NAG 5 4664	JOHNS HOPKINS UNIV	4829
FAR ULTRAVIOLET SPECTROSCOPIC EXPLORER (FUSE) OTRR EACH INITIATIVE.			ION CYCLOTRON WAVES: AN ISTEP STUDY		
10/04/1996 - 10/14/2000	FY01: \$0	Total: \$85,000	06/25/1997 - 05/31/2001	FY01: \$0	Total: \$131,931
<i>Prin. Invest.:</i> D MOOS, D HOLMES			<i>Prin. Invest.:</i> D J ANDERSON		
<i>Tech. Officer:</i> GSFC/D R MENGERS, GSFC/O FINGUEROA			<i>Tech. Officer:</i> GSFC/J G GREBOWSKY		
<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER			<i>CASE Category:</i> 13 - PHYSICS		
NAG 5 3485	JOHNS HOPKINS UNIV	4822	NAG 5 5047	JOHNS HOPKINS UNIV	4830
DIFFUSE IONIZED GAS IN GALACTIC ENVIRONMENTS			WIND-WAVE-CURRENT COUPLED MODEL		
10/31/1996 - 10/31/2001	FY01: \$125,200	Total: \$561,400	08/22/1995 - 09/30/2002	FY01: \$0	Total: \$346,239
<i>Prin. Invest.:</i> K R SEMBACH			<i>Prin. Invest.:</i> O PHILLIPS		
<i>Tech. Officer:</i> GSFC/D K WEST			<i>Tech. Officer:</i> GSFC/S R LONG, GSFC/N E HUANG		
<i>CASE Category:</i> 11 - ASTRONOMY			<i>CASE Category:</i> 33 - OCEANOGRAPHY		
NAG 5 3503	JOHNS HOPKINS UNIV	4823	NAG 5 5122	JOHNS HOPKINS UNIV	4831
THE EVOLUTION AND CLUSTERING OF GALAXIES AT Z=1 AN			ROCKET AND LABORATORY EXPERIMENTS IN ASTRONOMY		
11/27/1996 - 11/30/2001	FY01: \$253,900	Total: \$648,611	02/21/1997 - 02/28/2002	FY01: \$0	Total: \$2,031,000
<i>Prin. Invest.:</i> A S SZALAY			<i>Prin. Invest.:</i> P D FELDMAN		
<i>Tech. Officer:</i> GSFC/D K WEST			<i>Tech. Officer:</i> GSFC/B J FLOWERS		
<i>CASE Category:</i> 11 - ASTRONOMY			<i>CASE Category:</i> 13 - PHYSICS		
NAG 5 3542	JOHNS HOPKINS UNIV	4824	NAG 5 5198	JOHNS HOPKINS UNIV	4832
A MULTIWAVELENGTH STUDY OF MOLECULES IN THE INTERSTELLAR MEDIUM			DENSITY TEMPERATURE & MEASUREMENTS FOR ICON ROCKET EXPERIMENT		
11/27/1996 - 03/31/2000	FY01: \$3,693	Total: \$119,493	05/21/1998 - 04/11/2001	FY01: \$0	Total: \$68,805
<i>Prin. Invest.:</i> D A NEUFELD			<i>Prin. Invest.:</i> J H YEE		
<i>Tech. Officer:</i> GSFC/D WEST			<i>Tech. Officer:</i> GSFC/W B JOHNSON		
<i>CASE Category:</i> 11 - ASTRONOMY			<i>CASE Category:</i> 13 - PHYSICS		
NAG 5 4168	JOHNS HOPKINS UNIV	4825	NAG 5 5301	JOHNS HOPKINS UNIV	4833
PLANETARY AERONOMY			GRANT ENTITLED: ALTIMETER SEA-STATE BIAS MODEL STUDY		
03/15/1997 - 02/28/2002	FY01: \$89,000	Total: \$426,943	07/18/2000 - 07/17/2003	FY01: \$24,967	Total: \$74,699
<i>Prin. Invest.:</i> D F STROBEL			<i>Prin. Invest.:</i> D R THOMPSON		
<i>Tech. Officer:</i> GSFC/D BOGAN			<i>Tech. Officer:</i> WFF/D C VANDEMARK, WFF/D W HANCOCK		
<i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE			<i>CASE Category:</i> 45 - ELECTRICAL ENGR		
NAG 5 4261	JOHNS HOPKINS UNIV	4826	NAG 5 5314	JOHNS HOPKINS UNIV	4834
WINDOWLESS FUV LAMPS			SUPPORT OF THE INTERNATIONAL WORKSHOP ENTITLED: COUPLING COASTAL OCEAN, COASTAL ATMOSPHERE WIND		
04/14/1997 - 12/31/2001	FY01: \$48,000	Total: \$202,316	03/22/2001 - 12/31/2001	FY01: \$35,000	Total: \$35,000
<i>Prin. Invest.:</i> D R MCCANDLISS			<i>Prin. Invest.:</i> E GROSS		
<i>Tech. Officer:</i> GSFC/H HASAN			<i>Tech. Officer:</i> GSFC/S R LONG, GSFC/N E HUANG		
<i>CASE Category:</i> 11 - ASTRONOMY			<i>CASE Category:</i> 33 - OCEANOGRAPHY		
NAG 5 4365	JOHNS HOPKINS UNIV	4827	NAG 5 5315	JOHNS HOPKINS UNIV	4835
CONTINUATION OF THE VOYAGER INTERSTELLAR MISSION:			ROCKET AND LABORATORY STUDIES IN ASTRONOMY		
04/23/1997 - 03/31/2002	FY01: \$0	Total: \$1,900,000	LABORATORY STUDIES IN ASTRONOMY		
<i>Prin. Invest.:</i> D M KRIMIGIS			02/14/2001 - 02/28/2004	FY01: \$420,000	Total: \$420,000
<i>Tech. Officer:</i> GSFC/C P HOLMES			<i>Prin. Invest.:</i> P D FELDMAN		
<i>CASE Category:</i> 13 - PHYSICS			<i>Tech. Officer:</i> GSFC/J C BRINTON		
			<i>CASE Category:</i> 13 - PHYSICS		

NAG 5 6113 **JOHNS HOPKINS UNIV** **4836**
 PROJECT ULYSSES HI-SCALE DATA ANALYSIS PHASE ACTIV
 07/28/1997 - 12/31/2001 FY01: \$402,000 Total: \$1,616,000
Prin. Invest.: R E GOLD
Tech. Officer: GSFC/V JONESS
CASE Category: 13 - PHYSICS

NAG 5 6178 **JOHNS HOPKINS UNIV** **4837**
 CRITICAL COMPARISON OF SUBSTORM TRIGGER MODELS AGA HE NEAR-
 EARTH TAIL
 07/28/1997 - 05/14/2002 FY01: \$77,338 Total: \$296,538
Prin. Invest.: D OHTANI
Tech. Officer: GSFC/D EVANS
CASE Category: 13 - PHYSICS

NAG 5 6182 **JOHNS HOPKINS UNIV** **4838**
 MAGNETIC FIELD-ALIGNED ELECTRODYNAMICS OF THE MIDD
 07/30/1997 - 12/31/2000 FY01: \$0 Total: \$120,000
Prin. Invest.: D H MAUK
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 - PHYSICS

NAG 5 6400 **JOHNS HOPKINS UNIV** **4839**
 SPACE OBSERVATIONS OF STARBURST GALAXIES (L TSA)
 10/10/1997 - 09/30/2002 FY01: \$142,700 Total: \$677,200
Prin. Invest.: T HECKMAN
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 6764 **JOHNS HOPKINS UNIV** **4840**
 MONITORING OF NGC 4151
 12/30/1997 - 12/31/2000 FY01: -\$1 Total: \$44,999
Prin. Invest.: G KRISS
Tech. Officer: GSFC/R POLIDAN
CASE Category: 11 - ASTRONOMY

NAG 5 7080 **JOHNS HOPKINS UNIV** **4841**
 PYROTECHNIC ROCK CHIPPER
 03/10/1998 - 07/31/2002 FY01: \$81,602 Total: \$247,576
Prin. Invest.: A F CHENG
Tech. Officer: GSFC/BCAMPBELL
CASE Category: 11 - ASTRONOMY

NAG 5 7186 **JOHNS HOPKINS UNIV** **4842**
 INFRARED INVESTIGATION OF COMETARY VOLATILES
 03/25/1998 - 02/28/2002 FY01: \$0 Total: \$200,056
Prin. Invest.: H WEAVER
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 - ASTRONOMY

NAG 5 7227 **JOHNS HOPKINS UNIV** **4843**
 TOMS VALIDATION AND UTLS PHOTOCHEMISTRY USING ER-2 AND
 GROUND BASED DATASETS
 04/14/1998 - 09/30/2001 FY01: \$74,966 Total: \$232,117
Prin. Invest.: S A LLOYD
Tech. Officer: GSFC/E HILSEN RATH
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7361 **JOHNS HOPKINS UNIV** **4844**
 MIDDLEWORLD TRANSPORT WITHIN THREE-DIMENSIONAL MOD ELS:
 CHARACTERIZATION AND SENSITIVITIES TO MODEL
 05/06/1998 - 09/30/2001 FY01: \$0 Total: \$140,918
Prin. Invest.: D W WAUGH
Tech. Officer: GSFC/R W STEWART
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7552 **JOHNS HOPKINS UNIV** **4845**
 TROPOSPHERIC AND STRATOSPHERIC COMPOSITION RETRIEVALS USING
 THE STELLAR OCCULTATION TECHNIQUE
 06/22/1998 - 08/31/2002 FY01: \$0 Total: \$482,813
Prin. Invest.: J YEE
Tech. Officer: GSFC/J A KAYE
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 5 7697 **JOHNS HOPKINS UNIV** **4846**
 PROPOSAL TITLED "A PROPOSAL TO INVESTIGATE OUTSTANDING PROB-
 LEMS IN ASTRONOMY BY THE INSTRUMENT DEFIN
 09/17/1998 - 11/30/2001 FY01: \$3,467,002 Total: \$6,543,435
Prin. Invest.: H FORD
Tech. Officer: GSFC/J JELETIC
CASE Category: 11 - ASTRONOMY

NAG 5 7724 **JOHNS HOPKINS UNIV** **4847**
 QUANTITATIVE MAGNETOSPHERIC DYNAMICS FROM POLAR UV AND
 VISIBLE IMAGERS
 09/24/1998 - 03/31/2002 FY01: \$230,000 Total: \$821,200
Prin. Invest.: C I MENG, NONE
Tech. Officer: GSFC/R HOFFMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 7769 **JOHNS HOPKINS UNIV** **4848**
 GRAVITY WAVES IN JUPITER'S UPPER ATMOSPHERE
 01/15/1999 - 08/31/2001 FY01: \$0 Total: \$125,000
Prin. Invest.: D STROBEL
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 - ASTRONOMY

NAG 5 7797 **JOHNS HOPKINS UNIV** **4849**
 TURBULENCE IN MAGNETOTAIL PLASMA SHEET
 12/15/1998 - 12/31/2001 FY01: \$93,904 Total: \$272,087
Prin. Invest.: D Y LUI
Tech. Officer: GSFC/D EVANS
CASE Category: 11 - ASTRONOMY

NAG 5 7863 **JOHNS HOPKINS UNIV** **4850**
 SATELLITE BOMBARDMENT MODEL WITH DATA CONSTRAINTS
 01/11/1999 - 12/31/2001 FY01: \$0 Total: \$174,228
Prin. Invest.: C P PARANICAS
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 - ASTRONOMY

NAG 5 7920 **JOHNS HOPKINS UNIV** **4851**
 ISTP: SOLAR WIND, FORESHOCK, AND MAGNETOSHEATH PROCESSES
 12/15/1998 - 02/28/2002 FY01: \$107,000 Total: \$311,000
Prin. Invest.: D G SIBECK
Tech. Officer: GSFC/D EVANS
CASE Category: 11 - ASTRONOMY

NAG 5 7921 **JOHNS HOPKINS UNIV** **4852**
 SOLAR FILAMENTS AT 1 AU
 12/10/1998 - 12/31/2001 FY01: \$96,319 Total: \$278,713
Prin. Invest.: D M RUST
Tech. Officer: GSFC/D CLING
CASE Category: 11 - ASTRONOMY

NAG 5 8007 **JOHNS HOPKINS UNIV** **4853**
 OPTIMIZED ANALYSIS OF RADAR ICE SOUNDER DATA
 01/06/1999 - 12/31/2000 FY01: \$0 Total: \$100,000
Prin. Invest.: B L GOTWOLS
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8019 **JOHNS HOPKINS UNIV** **4854**
 CORONAL MASS EJECTION EVENTS: COMPARATIVE GEOEFFEC TIVENESS
 FROM SOLAR MINIMUM THROUGH SOLAR MAXIMU
 01/06/1999 - 12/31/2001 FY01: \$86,486 Total: \$238,636
Prin. Invest.: N J FOX
Tech. Officer: GSFC/M H ACUNA
CASE Category: 13 - PHYSICS

NAG 5 8037 **JOHNS HOPKINS UNIV** **4855**
 HIGH-LATITUDE ELECTRIC FIELD MODELS REFERENCED TO IMF ORIENTA-
 TION AND AURORAL CONFIGURATION
 01/11/1999 - 06/30/2000 FY01: \$0 Total: \$59,992
Prin. Invest.: R A GREENWALD
Tech. Officer: GSFC/M H ACUNA
CASE Category: 13 - PHYSICS

NAG 5 8061 **JOHNS HOPKINS UNIV** **4856**
 GPS-BASED FALLING SPHERE DEVELOPMENT
 01/12/1999 - 06/30/2000 FY01: \$0 Total: \$83,461
Prin. Invest.: F MORGAN
Tech. Officer: GSFC/M MELLOTT
CASE Category: 13 - PHYSICS

NAG 5 8062 **JOHNS HOPKINS UNIV** **4857**
 ANALYSIS OF 3-D IMAGERY OF POLAR MESOSPHERIC CLOUD S
 OBSERVED FROM MSX
 01/12/1999 - 01/14/2002 FY01: \$0 Total: \$185,500
Prin. Invest.: D MORRISON
Tech. Officer: GSFC/M MELLOTT
CASE Category: 13 - PHYSICS

NAG 5 8122 **JOHNS HOPKINS UNIV** **4858**
 ANALYSIS OF OPTICAL OBSERVATIONS OF TOPSIDE MOLECU LAR IONS IN
 THE POLAR REGIONS
 02/03/1999 - 12/31/2001 FY01: \$0 Total: \$181,600
Prin. Invest.: J J YEE
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 - PHYSICS

NAG 5 8149 **JOHNS HOPKINS UNIV** **4859**
 DEV. OF MISSION INDEPENDENCE DATA FORMAT FOR PARTI CLE FIELD
 MEASUREMENT WITH APPLICATION TO AMPTE/C
 02/05/1999 - 12/31/2001 FY01: \$114,100 Total: \$356,989
Prin. Invest.: S R NYLUND
Tech. Officer: GSFC/P HUNTER
CASE Category: 11 - ASTRONOMY

NAG 5 8171 **JOHNS HOPKINS UNIV** **4860**
 SPATIAL VARIATIONS IN ROCK SPECTRAL PROPERTIES AT THE SAGAN
 MEMORIALSTATION
 02/22/1999 - 02/28/2002 FY01: \$42,000 Total: \$116,000
Prin. Invest.: S L MURCHIE
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8191 **JOHNS HOPKINS UNIV** **4861**
 ENERGETIC ION INTERACTIONS WITH THE GALILEAN SATEL LITES
 04/21/1999 - 03/31/2001 FY01: \$0 Total: \$31,391
Prin. Invest.: D MAUK
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 - ASTRONOMY

NAG 5 8279 **JOHNS HOPKINS UNIV** **4862**
 RECONCILING STARBURSTS AND NORMAL STAR FORMATION (ADP98)
 02/25/1999 - 05/14/2001 FY01: \$0 Total: \$48,051
Prin. Invest.: G R MEURER
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8331 **JOHNS HOPKINS UNIV** **4863**
 FLARE GENESIS EXPERIMENT
 05/05/1999 - 12/31/2001 FY01: \$121,353 Total: \$520,789
Prin. Invest.: D M RUST
Tech. Officer: GSFC/WWAGNER
CASE Category: 11 - ASTRONOMY

NAG 5 8347 **JOHNS HOPKINS UNIV** **4864**
 OPTIMAL COADDITION OF DITHERED IMAGES USING THE KA RHUNEN-
 LOEVE TRANSFORM
 02/25/1999 - 02/28/2001 FY01: \$0 Total: \$174,900
Prin. Invest.: A S SZALAY, NONE
Tech. Officer: GSFC/J BREDEDAMP
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 5 8361 **JOHNS HOPKINS UNIV** **4865**
 ISTP MISSION DATA INTERFACES FOR DARN
 03/12/1999 - 04/14/2001 FY01: \$0 Total: \$340,000
Prin. Invest.: R GREEWALD
Tech. Officer: GSFC/S CURTIS
CASE Category: 11 - ASTRONOMY

NAG 5 8516 **JOHNS HOPKINS UNIV** **4866**
 MINIATURIZED ENERGETIC PARTICLE DETECTOR DEVELOP MENT
 06/14/1999 - 05/31/2002 FY01: \$160,881 Total: \$456,327
Prin. Invest.: R L MCNUTT
Tech. Officer: GSFC/B BETTS
CASE Category: 11 - ASTRONOMY

NAG 5 8548 **JOHNS HOPKINS UNIV** **4867**
 IMPLEMENTATION OF ALGORITHMS FOR HIGH SPEED AUTONO MOUS CCD
 DATA REDUCTION
 05/18/1999 - 05/14/2001 FY01: \$0 Total: \$21,250
Prin. Invest.: G MURPHY
Tech. Officer: GSFC/J BREDEKAMP
CASE Category: 29 - MATH/COMPUTER SCI, OTHER

NAG 5 8572 **JOHNS HOPKINS UNIV** **4868**
 CLOUD & WATER VAPOR EFFECTS ON CLIMATE SENSITIVITY
 06/02/1999 – 11/30/2001 FY01: \$180,000 Total: \$500,000
Prin. Invest.: A ARKING
Tech. Officer: GSFC/W LAU
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 8590 **JOHNS HOPKINS UNIV** **4869**
 STANDARDIZED SKY PARTITIONING FOR THE NEXT GENERATION
 ASTRONOMY AND SPACE ARCHIVES
 06/03/1999 – 05/31/2001 FY01: \$0 Total: \$190,828
Prin. Invest.: A SZALAY
Tech. Officer: GSFC/P E HUNTER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 8655 **JOHNS HOPKINS UNIV** **4870**
 "CROSSLINK TRANSCEIVER DEVELOPMENT IN SUPPORT OF THE NASA/
 DOD UNIV NANO-SATELLITE PROGRAM."
 08/19/1999 – 05/31/2001 FY01: \$0 Total: \$370,119
Prin. Invest.: P A STADTER
Tech. Officer: GSFC/J BRISTOW
CASE Category: 41 – AERONAUTICAL ENGR

NAG 5 8665 **JOHNS HOPKINS UNIV** **4871**
 CROSSLINK NAVIGATION AND COMMUNICATION SYSTEM FOR MULTIPLE
 DISTRIBUTED SPACECRAFT.
 08/17/1999 – 08/31/2002 FY01: \$229,170 Total: \$474,781
Prin. Invest.: P A STADTER
Tech. Officer: GSFC/G H MUCKLOW
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 5 8687 **JOHNS HOPKINS UNIV** **4872**
 ADVANCED TECHNIQUES FOR ENERGETIC ION AND NEUTRAL ATOM TOF/
 IMAGING SENSORS
 07/20/1999 – 07/31/2002 FY01: \$0 Total: \$139,443
Prin. Invest.: D G MITCHELL
Tech. Officer: GSFC/G H MUCKLOW
CASE Category: 11 – ASTRONOMY

NAG 5 8688 **JOHNS HOPKINS UNIV** **4873**
 DATA COMPRESSION FOR TIME SERIES AND SPECTRAL DATA
 07/20/1999 – 07/31/2002 FY01: \$0 Total: \$204,374
Prin. Invest.: S HAWKINS, 111
Tech. Officer: GSFC/G H MUCKLOW
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 8741 **JOHNS HOPKINS UNIV** **4874**
 ADVANCED AUTOMATION CONCEPTS IN SPACEFLIGHT DYNAMICS & SPACE
 NAVIGATION.
 08/17/1999 – 02/28/2001 FY01: \$0 Total: \$147,275
Prin. Invest.: P STADTER
Tech. Officer: GSFC/J BRISTOW
CASE Category: 41 – AERONAUTICAL ENGR

NAG 5 8800 **JOHNS HOPKINS UNIV** **4875**
 GEOTAIL ENERGETIC PARTICLES AND ION COMPOSITION (EPIC)
 PROGRAM.
 11/29/1999 – 12/31/2000 FY01: \$0 Total: \$494,988
Prin. Invest.: D WILLIAMS
Tech. Officer: GSFC/D FAIRFIELD
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 8841 **JOHNS HOPKINS UNIV** **4876**
 ULTRA-BROAD BANDWIDTH ELECTRO-OPTIC MODULATOR WITH
 CASCADED BRAGG GRATINGS.
 09/22/1999 – 09/30/2000 FY01: \$0 Total: \$19,563
Prin. Invest.: D B KHURGIN
Tech. Officer: GSFC/H C SHAW
CASE Category: 45 – ELECTRICAL ENGR

NAG 5 8852 **JOHNS HOPKINS UNIV** **4877**
 ADAPTIVE INSTRUMENT MODULE (AIM) GRANT NAG5-8403 BEGIN:9/1/99 –
 END: 8/30/00
 09/30/1999 – 07/31/2000 FY01: \$0 Total: \$116,308
Prin. Invest.: R CONDE, NONE
Tech. Officer: GSFC/P J LUERS
CASE Category: 45 – ELECTRICAL ENGR

NAG 5 8862 **JOHNS HOPKINS UNIV** **4878**
 HIGH RESOLUTION IMAGING FROM THE STRATOSPHERE: ATMOSPHERIC
 SEEING AND TETHER DYNAMICS
 10/22/1999 – 10/14/2001 FY01: \$0 Total: \$10,000
Prin. Invest.: H FORD
Tech. Officer: GSFC/T GRUNER
CASE Category: 41 – AERONAUTICAL ENGR

NAG 5 8955 **JOHNS HOPKINS UNIV** **4879**
 ABUNDANCES IN OXYGEN-RICH SUPERNOVA REMNANTS: OBSERVATIONAL
 TESTS OF U NUCLEOSYNTHESIS MODELS – FUSE
 01/24/2000 – 01/31/2002 FY01: \$0 Total: \$38,500
Prin. Invest.: J A MORSE
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 – ASTRONOMY

NAG 5 8964 **JOHNS HOPKINS UNIV** **4880**
 INVESTIGATION OF MAGNETOSPHERIC WAVEGUIDE MODE USING
 SATELLITE & RADAR OBSERVATIONS
 02/23/2000 – 02/28/2002 FY01: \$69,597 Total: \$132,997
Prin. Invest.: K TAKAHASHI
Tech. Officer: GSFC/J SHARBER
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 8965 **JOHNS HOPKINS UNIV** **4881**
 THE HOTTEST STARS IN M31 AND M33 – FUSE
 01/24/2000 – 01/31/2002 FY01: \$0 Total: \$28,000
Prin. Invest.: L BIANCHI
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 – ASTRONOMY

NAG 5 8994 **JOHNS HOPKINS UNIV** **4882**
 EMISSION AND ABSORPTION LINE STUDIES OF SYMBIOTIC BINARIES:
 MASS LOSS AND SHOCK DIAGNOSTICS – FUSE
 01/24/2000 – 01/31/2001 FY01: \$0 Total: \$40,800
Prin. Invest.: S R MCCANDLISS
Prin. Invest.: NONE
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 – ASTRONOMY

NAG 5 9012 **JOHNS HOPKINS UNIV** **4883**
 THE FAR UV-SPECTRA OF STARBURSTS – FUSE
 02/08/2000 – 01/31/2002 FY01: \$0 Total: \$120,700
Prin. Invest.: T M HECKMAN
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 – ASTRONOMY

NAG 5 9078 **JOHNS HOPKINS UNIV** **4884**
 INVESTIGATION OF THE MAGNETIC FIELD LINE STRETCHING AT
 SUBSTORM ONSET
 02/23/2000 – 02/28/2002 FY01: \$82,391 Total: \$148,291
Prin. Invest.: K LIOU
Tech. Officer: GSFC/J SHARBER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 9109 **JOHNS HOPKINS UNIV** **4885**
 SIMULATING TRANSIENT PROCESSES AT THE MAGNETOPAUSE
 02/23/2000 – 02/28/2003 FY01: \$77,388 Total: \$148,388
Prin. Invest.: H KU
Tech. Officer: GSFC/J SHARBER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 9113 **JOHNS HOPKINS UNIV** **4886**
 CRYOSAT SCIENCE ADVISORY GROUP
 02/28/2000 – 02/28/2001 FY01: \$0 Total: \$19,372
Prin. Invest.: K RANEY
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 9118 **JOHNS HOPKINS UNIV** **4887**
 ELECTROMAGNETIC ION CYCLOTRON WAVES ON AURORAL FIELD LINES
 02/24/2000 – 04/30/2002 FY01: \$0 Total: \$33,000
Prin. Invest.: R E ERLANDSON
Tech. Officer: GSFC/M MELLOTT
CASE Category: 11 – ASTRONOMY

NAG 5 9186 **JOHNS HOPKINS UNIV** **4888**
 THE CLUSTERING OF GALAXIES & DARK MATTER AT INTERMEDIATE
 REDSHIFTS (ATP 99)
 03/07/2000 – 03/14/2001 FY01: -\$13,076 Total: \$37,000
Prin. Invest.: A S SZALAY
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 9187 **JOHNS HOPKINS UNIV** **4889**
 PREDICTING THE SPECTRA OF GALACTIC BLACK HOLES (ATP 99)
 03/07/2000 – 03/14/2002 FY01: \$91,354 Total: \$186,533
Prin. Invest.: J H KROLIK
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 9219 **JOHNS HOPKINS UNIV** **4890**
 HOT MASSIVE STARS IN LOCAL GROUP GALAXIES: A MULTIWAVELENGTH
 SPECTRAL ANALYSIS.
 03/13/2000 – 03/14/2002 FY01: \$103,294 Total: \$203,724
Prin. Invest.: L BIANCHI
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 9220 **JOHNS HOPKINS UNIV** **4891**
 MAPPING LARGE-SCALE STRUCTURE IN THE UNIVERSE
 03/13/2000 – 03/14/2001 FY01: -\$28,728 Total: \$69,202
Prin. Invest.: B S JAIN
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 9240 **JOHNS HOPKINS UNIV** **4892**
 ANALYSIS OF POLAR MESOSPHERIC CLOUDS USING SPECTROGRAPHIC
 IMAGES ON A SATELLITE
 03/13/2000 – 02/28/2002 FY01: \$76,487 Total: \$146,387
Prin. Invest.: J CARBARY
Tech. Officer: GSFC/M MELLOTT
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 9278 **JOHNS HOPKINS UNIV** **4893**
 A SPECTRAL STUDY OF A NEW CLASS OF RADIO QUASARS
 03/16/2000 – 07/14/2000 FY01: \$0 Total: \$663
Prin. Invest.: E PERLMAN
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 9296 **JOHNS HOPKINS UNIV** **4894**
 INNOVATIVE APPROACHES TO LITTORAL ALTIMETRY FOR PREDICTION &
 MONITORING OF NEAR-SHORE SEA
 04/13/2000 – 09/14/2001 FY01: \$18,750 Total: \$75,000
Prin. Invest.: R K RANEY
Tech. Officer: GSFC/H V FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 9367 **JOHNS HOPKINS UNIV** **4895**
 LOW-COST PLANETARY MISSIONS
 04/03/2000 – 03/31/2001 FY01: \$0 Total: \$35,000
Prin. Invest.: S KRIMIGIS
Tech. Officer: GSFC/D GOLOMBEKS
CASE Category: 99 – MULTI-INTERDISCIPL, OTHER

NAG 5 9426 **JOHNS HOPKINS UNIV** **4896**
 SENSITIVITY OF COUPLED LAND-ATMOSPHERE BOUNDARY LAYER
 DYNAMICS TO SURFACE HETEROGENEITY USING
 04/11/2000 – 04/30/2002 FY01: \$198,109 Total: \$334,300
Prin. Invest.: M B PARLANGE
Tech. Officer: GSFC/K H BERGMAN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 9432 **JOHNS HOPKINS UNIV** **4897**
 SPACE PHYSICS DATA MARKUP LANGUAGE
 04/18/2000 – 04/14/2002 FY01: \$113,900 Total: \$223,900
Prin. Invest.: D MORRISON
Tech. Officer: GSFC/J BREDEKAMP
CASE Category: 13 – PHYSICS

NAG 5 9456 **JOHNS HOPKINS UNIV** **4898**
 ADAPTIVE INSTRUMENT MODULE (AIM)
 04/13/2000 – 01/31/2002 FY01: \$0 Total: \$78,692
Prin. Invest.: R F CONDE
Tech. Officer: GSFC/P LUERS
CASE Category: 45 – ELECTRICAL ENGR

NAG 5 9533 **JOHNS HOPKINS UNIV** **4899**
 A SPECTRAL STUDY OF A NEW CLASS OF RADIO QUASARS (ADP98)
 04/28/2000 – 10/31/2000 FY01: \$0 Total: \$20,945
Prin. Invest.: E S PEARLMAN
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 9558 **JOHNS HOPKINS UNIV** **4900**
 SOLAR CYCLE UV VARIATION INFLUENCE ON SUBSTORM AURORAL SURGES
 05/16/2000 – 05/14/2001 FY01: \$0 Total: \$49,995
Prin. Invest.: P NEWELL
Tech. Officer: GSFC/R HOFFMAN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 9569 **JOHNS HOPKINS UNIV** **4901**
 NEW ISTP SOLAR MAX: CONTINUED INTEGRATION OF INTE RBALL INTO ISTP
 05/08/2000 – 05/14/2001 FY01: \$0 Total: \$60,989
Prin. Invest.: D G SIBECK
Tech. Officer: GSFC/M DESCH
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 9719 **JOHNS HOPKINS UNIV** **4902**
 MOLECULAR AND ATOMIC LASER MASS ANALYSIS (MALMA) INSTRUMENTATION FOR IN-SITU STUDIES OF PLANETARY
 06/20/2000 – 06/30/2001 FY01: \$0 Total: \$40,000
Prin. Invest.: R W MCENTIRE
Tech. Officer: GSFC/B BETTS
CASE Category: 11 – ASTRONOMY

NAG 5 9837 **JOHNS HOPKINS UNIV** **4903**
 CONTEMPORANEOUS XMM & HST OBSERVATIONS OF SEYFERT GALAXIES
 11/06/2000 – 11/14/2001 FY01: \$14,505 Total: \$14,505
Prin. Invest.: M E KAISER
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 – ASTRONOMY

NAG 5 9872 **JOHNS HOPKINS UNIV** **4904**
 A LOW POWER CROSSLINK TRANSCIEVER FOR NANOSAT COMMUNICATIONS EXPERIMENT
 08/10/2000 – 09/30/2001 FY01: \$0 Total: \$400,000
Prin. Invest.: P STADTER
Tech. Officer: GSFC/J BRISTOW
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 9878 **JOHNS HOPKINS UNIV** **4905**
 ASTROPHYSICAL PROPERTIES OF ACCRETING BLACK HOLES IN NORMAL GALAXY NUCLENUCLEI_(LTSA 99)
 08/28/2000 – 08/31/2001 FY01: \$0 Total: \$40,000
Prin. Invest.: E COLBERT
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 9903 **JOHNS HOPKINS UNIV** **4906**
 ACTIVITIES TO SUPPORT SCIENCE PLANNING AND COORDINATION IN ASSOCIATION WITH THE INTERNATIONAL SOLAR
 08/30/2000 – 09/30/2001 FY01: \$62,817 Total: \$78,814
Prin. Invest.: N J FOX
Tech. Officer: GSFC/R A HOFFMAN
CASE Category: 11 – ASTRONOMY

NAG 5 9910 **JOHNS HOPKINS UNIV** **4907**
 THE X-RAY PROPERTIES OF ULTRALUMINOUS GALAXIES: COSMOLOGICAL IMPLICATIONS
 09/05/2000 – 09/30/2002 FY01: \$16,600 Total: \$37,600
Prin. Invest.: T HECKMAN
Tech. Officer: GSFC/R M MUSHOTZKY
CASE Category: 11 – ASTRONOMY

NAG 5 9948 **JOHNS HOPKINS UNIV** **4908**
 STARBURST-DRIVEN OUTFLOWS & THE EVOLUTION OF DWARF GALAXIES
 09/07/2000 – 08/31/2002 FY01: \$16,200 Total: \$39,200
Prin. Invest.: T HECKMAN
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 – ASTRONOMY

NAG 5 9963 **JOHNS HOPKINS UNIV** **4909**
 CHARACTERIZING THE X-RAY SPECTRUM OF THE GALACTIC HALO
 09/22/2000 – 09/30/2002 FY01: \$15,900 Total: \$39,900
Prin. Invest.: W BLAIR
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 – ASTRONOMY

NAG 5 9968 **JOHNS HOPKINS UNIV** **4910**
 REMM, RADIATION ENVIRONMENT MINI-MONITOR. SUPPORT FOR NASA NANOSAT PROGRAM DEVELOPMENT OF ENVIRONME
 10/30/2000 – 10/31/2001 FY01: \$130,000 Total: \$130,000
Prin. Invest.: A GARRISON-DARRIN
Tech. Officer: GSFC/J BARTH
CASE Category: 13 – PHYSICS

NAG 5 9988 **JOHNS HOPKINS UNIV** **4911**
 VALIDATION OF MSX/UVISI STELLAR OCCULTATION RETRIE VALS OF LOWER STRATOSPHERE/UPPER TROPOSPHERE
 10/04/2000 – 09/30/2002 FY01: \$155,000 Total: \$155,000
Prin. Invest.: J YEE
Tech. Officer: GSFC/A C AIKIN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 10060 **JOHNS HOPKINS UNIV** **4912**
 SUPERDARN CONTRIBUTIONS TO TIMED/CEDAR COLLABORATIVE STUDIES
 10/23/2000 – 04/30/2002 FY01: \$225,000 Total: \$225,000
Prin. Invest.: R A GREENWALD
Tech. Officer: GSFC/M MELLOTT
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10084 **JOHNS HOPKINS UNIV** **4913**
 FLAT PLASMA SPECTROMETER
 11/07/2000 – 11/14/2001 FY01: \$167,226 Total: \$167,226
Prin. Invest.: J L CHAMPION
Tech. Officer: GSFC/F HERRERO
CASE Category: 13 – PHYSICS

NAG 5 10176 **JOHNS HOPKINS UNIV** **4914**
 THE PHYSICAL PROPERTIES OF THE INTRA-CLUSTER MEDIUM AT Z 1
 12/18/2000 – 12/31/2001 FY01: \$8,300 Total: \$8,300
Prin. Invest.: H FORD
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 – ASTRONOMY

NAG 5 10234 **JOHNS HOPKINS UNIV** **4915**
 A SELF-HEALING SPACECRAFT ARCHITECTURE FOR LONG DURATION
 LOW POWER MISSION.
 01/30/2001 – 12/31/2001 FY01: \$91,924 Total: \$91,924
Prin. Invest.: B ANDREWS
Tech. Officer: GSFC/P LUERS
CASE Category: 45 – ELECTRICAL ENGR

NAG 5 10241 **JOHNS HOPKINS UNIV** **4916**
 VARIABILITY EMISSIVITY CONTROLLER CONCEPTS & RISK MITIGATION
 PATH
 01/08/2001 – 01/14/2002 FY01: \$108,679 Total: \$108,679
Prin. Invest.: R OSIANDER
Tech. Officer: GSFC/D DOUGLAS
CASE Category: 46 – MECHANICAL ENGR

NAG 5 10242 **JOHNS HOPKINS UNIV** **4917**
 GEOTAIL ENERGETIC PARTICLE AND ION COMPOSITION (EPIC) PROGRAM
 01/12/2001 – 12/31/2001 FY01: \$430,000 Total: \$430,000
Prin. Invest.: R MCENTIRE
Tech. Officer: GSFC/M ACUNA
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 10248 **JOHNS HOPKINS UNIV** **4918**
 INVESTIGATION OF SUPERNOVA REMNANT SHOCKS IN THE VELA-PUPPIS
 REGION
 02/12/2001 – 02/14/2002 FY01: \$61,900 Total: \$61,900
Prin. Invest.: R SANKRIT
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 – ASTRONOMY

NAG 5 10261 **JOHNS HOPKINS UNIV** **4919**
 CONTINUED PARTICIPATION IN CRYOSAT SCIENCE ADVISORY GROUP
 01/09/2001 – 12/31/2001 FY01: \$25,956 Total: \$25,956
Prin. Invest.: R RANEY
Tech. Officer: GSFC/W ABDALATI
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10281 **JOHNS HOPKINS UNIV** **4920**
 COMPARATIVE MAGNETOSPHERES INVESTIGATION OF PLASMA INJEC-
 TION PHENOMENA
 01/23/2001 – 01/31/2002 FY01: \$67,852 Total: \$67,852
Prin. Invest.: B MAUK
Tech. Officer: GSFC/J SHARBER
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10285 **JOHNS HOPKINS UNIV** **4921**
 STRUCTURE OF THE MAGNETOPAUSE
 01/23/2001 – 01/31/2002 FY01: \$69,449 Total: \$69,449
Prin. Invest.: D G SIBECK
Tech. Officer: GSFC/J SHARBER
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10302 **JOHNS HOPKINS UNIV** **4922**
 THE FAR-UV SPECTRA OF POWERFUL STARBURSTS – FUSE- 00
 01/25/2001 – 01/31/2002 FY01: \$103,210 Total: \$103,210
Prin. Invest.: T M HECKMAN
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 – ASTRONOMY

NAG 5 10304 **JOHNS HOPKINS UNIV** **4923**
 SEARCH FOR X-RAY SPECTRAL FEATURES IN BL LAC OBJECTS MKN 180
 AND 1ES1517+656
 01/29/2001 – 01/31/2002 FY01: \$500 Total: \$500
Prin. Invest.: J H KROLIK
Tech. Officer: GSFC/R MUSHOTSKY
CASE Category: 11 – ASTRONOMY

NAG 5 10355 **JOHNS HOPKINS UNIV** **4924**
 SMALL-SCALE INTERSTELLAR STRUCTURE TOWARD THE OPEN CLUSTER
 CHI PERSEI – FUSE 00
 02/13/2001 – 02/14/2002 FY01: \$10,000 Total: \$10,000
Prin. Invest.: S D FRIEDMAN
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 – ASTRONOMY

NAG 5 10364 **JOHNS HOPKINS UNIV** **4925**
 CENTRAL STARS OF PLANETARY NEBULAE IN THE LARGE MAGELLANIC
 CLOUD-FUSE00
 02/05/2001 – 02/14/2002 FY01: \$65,700 Total: \$65,700
Prin. Invest.: L BIANCHI
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 – ASTRONOMY

NAG 5 10380 **JOHNS HOPKINS UNIV** **4926**
 MOLECULAR HYDROGEN FLUORESCENCE IN IC 63 (FUSE 00)
 02/08/2001 – 02/14/2002 FY01: \$72,500 Total: \$72,500
Prin. Invest.: R SANKRIT
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 – ASTRONOMY

NAG 5 10394 **JOHNS HOPKINS UNIV** **4927**
 O VI EMISSION FROM THE INTERSTELLAR MEDIUM (FUSE 00)
 02/12/2001 – 02/14/2002 FY01: \$79,000 Total: \$79,000
Prin. Invest.: R L SHELTON
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 – ASTRONOMY

NAG 5 10397 **JOHNS HOPKINS UNIV** **4928**
 "PROGRAMMABLE CIRCUIT INTERCONNECT USING MEMS LIQUID-METAL
 MICROSWITCHES".
 02/12/2001 – 01/14/2002 FY01: \$376,889 Total: \$376,889
Prin. Invest.: R EDWARDS
Tech. Officer: GSFC/P YEP
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 10402 **JOHNS HOPKINS UNIV** **4929**
 DETECTOR ANALOG INTERFACE APPLICATION SPECIFIC INTEGRATED
 CIRCUIT (ASIC)
 02/27/2001 – 01/14/2002 FY01: \$147,012 Total: \$147,012
Prin. Invest.: D STROHBEHN
Tech. Officer: GSFC/J F SUTTON
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 10403 **JOHNS HOPKINS UNIV** **4930**
 SYMBIOTIC BINARIES LABORATORIES FOR WIND STUDIES (FUSE 00)
 02/15/2001 – 02/14/2002 FY01: \$53,000 Total: \$53,000
Prin. Invest.: S R MCCANDLISS
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 – ASTRONOMY

NAG 5 10405 **JOHNS HOPKINS UNIV** **4931**
 FUSE SPECTROSCOPY OF HOT POST-AGB STARS IN GLOBULA R CLUSTERS - FUSE
 03/28/2001 - 03/31/2002 FY01: \$31,540 Total: \$31,540
Prin. Invest.: W V DIXON
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 10464 **JOHNS HOPKINS UNIV** **4932**
 CONCEPT STUDY FOR INFRARED BASED BUS SYSTEM (IRCOM M)
 03/05/2001 - 03/14/2002 FY01: \$160,000 Total: \$160,000
Prin. Invest.: M G DARRIN
Tech. Officer: GSFC/P J LUERS
CASE Category: 45 - ELECTRICAL ENGR

NAG 5 10475 **JOHNS HOPKINS UNIV** **4933**
 ISTP: NONLINEAR DYNAMICS OF THE MAGNETOSPHERE FROM AURORAL ACTIVITY
 02/27/2001 - 02/28/2002 FY01: \$91,138 Total: \$91,138
Prin. Invest.: A LUI
Tech. Officer: GSFC/J SPAN
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 10479 **JOHNS HOPKINS UNIV** **4934**
 ISTP: TRANSIENT EVENTS AT THE MAGNETOPAUSE & IN THE IONOSPHERE
 02/27/2001 - 02/28/2002 FY01: \$69,923 Total: \$69,923
Prin. Invest.: D G SIBECK
Tech. Officer: GSFC/J SPANN
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 10511 **JOHNS HOPKINS UNIV** **4935**
 A DETAILED STUDY OF TWO OPTICALLY-SELECTED, HIGH- REDSHIFT CLUSTERS OF GALAXIES
 03/02/2001 - 09/14/2002 FY01: \$42,635 Total: \$42,635
Prin. Invest.: L M LUBIN
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10562 **JOHNS HOPKINS UNIV** **4936**
 NANOSAT CROSSLINK TRANSCIEVER FOR NEAR-TERM DISTRIBUTED SPACECRAFTTECHNOLOGY DEMONSTRATION MI
 03/16/2001 - 03/14/2002 FY01: \$350,000 Total: \$350,000
Prin. Invest.: P A STADTER
Tech. Officer: GSFC/S P HUGHES
CASE Category: 41 - AERONAUTICAL ENGR

NAG 5 10597 **JOHNS HOPKINS UNIV** **4937**
 PROPOSED ACTIVITIES FOR SUPERDARN GROUND-BASED INVESTIGATION IN SUPPORT OF ISTP SOLAR MAX AND CLUST
 03/19/2001 - 03/31/2002 FY01: \$140,000 Total: \$140,000
Prin. Invest.: R GREENWALD
Tech. Officer: GSFC/S CURTIS
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 10647 **JOHNS HOPKINS UNIV** **4938**
 DIFFUSION & WEAK STELLAR WINDS IN HOT B SUBDWARFS - LTSA-2000
 03/27/2001 - 06/30/2002 FY01: \$20,500 Total: \$20,500
Prin. Invest.: P CHAYER
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 10650 **JOHNS HOPKINS UNIV** **4939**
 CNO ABUNDANCES IN LMC BN AND BC SUPERGIANTS (FUSE 00)
 04/04/2001 - 04/14/2002 FY01: \$10,824 Total: \$10,824
Prin. Invest.: A FULLERTON
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 10693 **JOHNS HOPKINS UNIV** **4940**
 LASER/EVOLVED-GAS TIME-OF-FLIGHT MASS SPECTROMETER AND SAMPLE HANDLING SYSTEM FOR IN SITU COMPOSITIO
 04/16/2001 - 04/14/2002 FY01: \$146,599 Total: \$146,599
Prin. Invest.: W BRINCKERHOFF
Tech. Officer: GSFC/B BETTS
CASE Category: 11 - ASTRONOMY

NAG 5 10742 **JOHNS HOPKINS UNIV** **4941**
 PARALLEL SCANNING FOR THE NVO.
 04/12/2001 - 04/30/2002 FY01: \$100,000 Total: \$100,000
Prin. Invest.: P Z KUNSZT
Tech. Officer: GSFC/P E HUNTER
CASE Category: 22 - COMPUTER SCIENCE

NAG 5 10762 **JOHNS HOPKINS UNIV** **4942**
 HIGH-REDSHIFT QUASAR HOSTS AND ENVIRONMENTS (LTSA 2000)
 04/23/2001 - 04/30/2002 FY01: \$45,372 Total: \$45,372
Prin. Invest.: S RIDGWAY
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 10769 **JOHNS HOPKINS UNIV** **4943**
 BLACK HOLES IN ACTIVE GALACTIC NUCLEI (LTSA 2000)
 04/23/2001 - 04/30/2002 FY01: \$95,000 Total: \$95,000
Prin. Invest.: T YAQOUB
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 10778 **JOHNS HOPKINS UNIV** **4944**
 STUDY FOR SPACE APPLICATION SWITCH/HUB FOR ETHERNET
 05/18/2001 - 05/30/2002 FY01: \$100,000 Total: \$100,000
Prin. Invest.: P EISENREICH
Tech. Officer: GSFC/E WEBB
CASE Category: 45 - ELECTRICAL ENGR

NAG 5 10787 **JOHNS HOPKINS UNIV** **4945**
 SOLAR ENERGETIC PARTICLE EVENTS IN THE INNER HELIO SPHERE AND DEEP SPACE: A MODEL FOR FORECASTING PRO
 04/27/2001 - 04/30/2002 FY01: \$80,990 Total: \$80,990
Prin. Invest.: D LARIO
Tech. Officer: GSFC/W J WAGNER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10798 **JOHNS HOPKINS UNIV** **4946**
 CONCEPT STUDY FOR THE "THE PRIMORDIAL EXPLORER" PRIME MISSION AO-99-OSS-05
 04/30/2001 - 04/30/2002 FY01: \$418,500 Total: \$418,500
Prin. Invest.: D ZHENG
Tech. Officer: GSFC/J R BYRD
CASE Category: 11 - ASTRONOMY

NAG 5 10807 **JOHNS HOPKINS UNIV** **4947**
 THE GALACTIC HALO AND LOCAL BUBBLE (L TSA 2000)
 04/23/2001 – 04/30/2002 FY01: \$68,854 Total: \$68,854
Prin. Invest.: C A NORMAN
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 10836 **JOHNS HOPKINS UNIV** **4948**
 INTERPLANETARY SHOCK PREDICTION USING REAL TIME ENERGETIC
 PARTICLE OBSERVATIONS
 04/27/2001 – 04/30/2002 FY01: \$80,564 Total: \$80,564
Prin. Invest.: G HO
Tech. Officer: GSFC/W J WAGNER
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10849 **JOHNS HOPKINS UNIV** **4949**
 GLOBAL MAGNETOSPHERE/IONOSPHERE SPECIFICATION: LOW EARTH
 ORBIT CONSTELLATION OBSERVATIONS& GLOBAL
 05/07/2001 – 05/14/2002 FY01: \$100,000 Total: \$100,000
Prin. Invest.: B J ANDERSON
Tech. Officer: GSFC/J F SPANN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 10900 **JOHNS HOPKINS UNIV** **4950**
 SOLAR PROTON PENETRATION AT HIGH LATITUDES: MODEL CALCULA-
 TIONS OF CUTOFF LATITUDES & VARIATIONS WIT
 05/07/2001 – 05/14/2002 FY01: \$68,242 Total: \$68,242
Prin. Invest.: R B DECKER
Tech. Officer: GSFC/J F SPANN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 10902 **JOHNS HOPKINS UNIV** **4951**
 A STATISTICAL MODEL OF HIGH-LATITUDE CONVECTION REFRENCED TO
 AURORAL BOUNDARIES
 05/07/2001 – 05/14/2002 FY01: \$76,028 Total: \$76,028
Prin. Invest.: J M RUOHONIEMI
Tech. Officer: GSFC/J F SPANN
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10916 **JOHNS HOPKINS UNIV** **4952**
 FUV AND OPTICAL SPECTROSCOPY OF HOT POST-AGB STARS IN GLOB-
 ULAR CLUSTERS
 05/10/2001 – 05/14/2002 FY01: \$49,400 Total: \$49,400
Prin. Invest.: W V DIXON
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 10921 **JOHNS HOPKINS UNIV** **4953**
 INVESTIGATING THE EXCITATION MECHANISM FOR COMETARY X-RAY,
 EUV, AND FUV EMISSIONS
 05/21/2001 – 06/30/2002 FY01: \$52,500 Total: \$52,500
Prin. Invest.: H A WEAVER
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 – ASTRONOMY

NAG 5 10922 **JOHNS HOPKINS UNIV** **4954**
 EVOLUTIONARY SYNTHESIS OF EARLY-TYPE GALAXIES (ATP 00)
 05/21/2001 – 05/31/2002 FY01: \$105,582 Total: \$105,582
Prin. Invest.: M A HOUDASHELT
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 10941 **JOHNS HOPKINS UNIV** **4955**
 WINTER-SUMMER ASYMMETRY OF IONOSPHERIC ELECTRO- DYNAMICS
 05/15/2001 – 05/14/2002 FY01: \$38,000 Total: \$38,000
Prin. Invest.: S OHTANI
Tech. Officer: GSFC/J SHARBER
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10957 **JOHNS HOPKINS UNIV** **4956**
 OBSERVATIONS OF O VI EMISSION IN THE HOT HALO OF NGC 891 (FUSE
 00)
 05/30/2001 – 05/31/2002 FY01: \$12,006 Total: \$12,006
Prin. Invest.: C HOWK
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 – ASTRONOMY

NAG 5 10971 **JOHNS HOPKINS UNIV** **4957**
 PREPARING FOR MULTI-SPACECRAFT MISSIONS: AURORAL SPACE-TIME
 SCALES AND MAGNETOTAIL ASSIMILATION MOD
 05/25/2001 – 05/31/2002 FY01: \$59,900 Total: \$59,900
Prin. Invest.: S WING
Tech. Officer: GSFC/J SPANN
CASE Category: 11 – ASTRONOMY

NAG 5 10998 **JOHNS HOPKINS UNIV** **4958**
 A SOLAR BOLOMETRIC IMAGER FOR STUDYING SOLAR ENERGY INPUT TO
 EARTH
 06/07/2001 – 05/31/2002 FY01: \$386,254 Total: \$386,254
Prin. Invest.: D M RUST
Tech. Officer: GSFC/W J WAGNER
CASE Category: 13 – PHYSICS

NAG 5 11029 **JOHNS HOPKINS UNIV** **4959**
 TOMS DATA VALIDATION: SOLAR FLUX, QUIKTOMS AND TOTAL OZONE
 RETRIEVALS AT HIGH LATITUDES.
 06/25/2001 – 06/30/2002 FY01: \$44,000 Total: \$44,000
Prin. Invest.: S A LLOYD
Tech. Officer: GSFC/R MCPETERS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 11034 **JOHNS HOPKINS UNIV** **4960**
 ATMOSPHERIC LOSS PROCESSES AT IO
 06/20/2001 – 05/31/2002 FY01: \$88,000 Total: \$88,000
Prin. Invest.: B MAUK
Tech. Officer: GSFC/D BOGAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 11035 **JOHNS HOPKINS UNIV** **4961**
 RADIATION FIELD MODELING & DATA ANALYSIS IN SUPPORT OF NASA
 STRATOSPHEREAND UPPER TROPOSPHERE
 06/20/2001 – 06/14/2002 FY01: \$49,955 Total: \$49,955
Prin. Invest.: S A LLOYD
Tech. Officer: GSFC/M KURYLO
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 11051 **JOHNS HOPKINS UNIV** **4962**
 SATURN'S UPPER ATMOSPHERIC STRUCTURE AS DERIVED FROM A
 RE-ANALYSIS OF THE VOYAGER ULTRAVIOLET
 06/20/2001 – 06/14/2002 FY01: \$50,000 Total: \$50,000
Prin. Invest.: R J VERVACK, JR
Prin. Invest.: NONE
Tech. Officer: GSFC/D J BOGAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 11060	JOHNS HOPKINS UNIV	4963	NAG 8 1377	JOHNS HOPKINS UNIV	4971
LOW ENERGY CHARGED PARTICLES ON THE VOYAGER INTER STELLAR MISSION			R/S "NOVEL MICROGRAVITY OPTICAL TECHNIQUE FOR MOLECULARLY ENGINEERING ELECTROPHORETIC MEDIA.		
06/28/2001 – 06/30/2002	FY01: \$475,000	Total: \$475,000	07/23/1997 – 11/30/2001	FY01: \$0	Total: \$457,000
<i>Prin. Invest.:</i> S M KRIMIGIS			<i>Prin. Invest.:</i> D WIRTZ		
<i>Tech. Officer:</i> GSFC/V W JONES			<i>Tech. Officer:</i> MSFC/B GUYNES, MSFC/J MAYO		
<i>CASE Category:</i> 41 – AERONAUTICAL ENGR			<i>CASE Category:</i> 19 – PHYSICAL SCIENCE, OTHER		
NAG 5 11116	JOHNS HOPKINS UNIV	4964	NAG 8 1527	JOHNS HOPKINS UNIV	4972
NEW RADIATION FACILITIES PLANNING SUPPORT.			AXAF INTERDISCIPLINARY SCIENTIST		
08/06/2001 – 02/14/2002	FY01: \$40,000	Total: \$40,000	03/30/1998 – 09/30/2001	FY01: \$112,000	Total: \$366,000
<i>Prin. Invest.:</i> J KINNISON			<i>Prin. Invest.:</i> R GIACCONI, C NORMAN		
<i>Tech. Officer:</i> GSFC/R REED			<i>Tech. Officer:</i> MSFC/M SMITH, MSFC/B HAMBRICK		
<i>CASE Category:</i> 13 – PHYSICS			<i>CASE Category:</i> 11 – ASTRONOMY		
NAG 5 11193	JOHNS HOPKINS UNIV	4965	NAG 8 1648	JOHNS HOPKINS UNIV	4973
AN AUTOMATED SYSTEM FOR THE REDUCTION AND ANALYSIS OF X-RAY DATA FROM GALAXIES			RBCC ACCESS TO SPACE ASSESSMENT		
08/29/2001 – 01/31/2002	FY01: \$72,700	Total: \$72,700	11/24/1999 – 03/31/2001	FY01: \$0	Total: \$96,583
<i>Prin. Invest.:</i> A F PTAK			<i>Prin. Invest.:</i> P J WALTRUP		
<i>Tech. Officer:</i> GSFC/P E HUNTER			<i>Tech. Officer:</i> MSFC/C M MC ARTHUR		
<i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE			<i>CASE Category:</i> 42 – ASTRONAUTICAL ENGR		
NAG 5 11211	JOHNS HOPKINS UNIV	4966	NAG 8 1695	JOHNS HOPKINS UNIV	4974
INFERENCES FROM TOPOGRAPHY ON THE EMPLACEMENT OF FLUIDIZED EJECTA ON MARS			DEVELOPMENT OF A NEUTRON SPECTROMETER TO ASSESS BIOLOGICAL RADIATION DAMAGE BEHIND SPACECRAFT MAT.		
08/09/2001 – 08/14/2002	FY01: \$53,000	Total: \$53,000	05/01/2000 – 11/30/2003	FY01: \$85,500	Total: \$130,500
<i>Prin. Invest.:</i> O BARNOUIN-JHA			<i>Prin. Invest.:</i> R MAUER		
<i>Tech. Officer:</i> GSFC/J M BOYCE			<i>Tech. Officer:</i> MSFC/P DOTY		
<i>CASE Category:</i> 11 – ASTRONOMY			<i>CASE Category:</i> 19 – PHYSICAL SCIENCE, OTHER		
NAG 5 11283	JOHNS HOPKINS UNIV	4967	NAG 9 1146	JOHNS HOPKINS UNIV	4975
INFERRING STRATOSPHERIC AND TROPOSPHERIC TRANSPORT FROM CHEMICAL TRACER MEASUREMENTS			CALCIUM KINETICS DURING SPACE FLIGHT		
08/17/2001 – 08/31/2004	FY01: \$92,581	Total: \$92,581	09/14/1999 – 09/30/2003	FY01: \$76,725	Total: \$110,325
<i>Prin. Invest.:</i> D WAUCH			<i>Prin. Invest.:</i> K O O'BRIEN		
<i>Tech. Officer:</i> GSFC/P DECOLA			<i>Tech. Officer:</i> SSC/S M SMITH		
<i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER			<i>CASE Category:</i> 19 – PHYSICAL SCIENCE, OTHER		
NAG 5 11297	JOHNS HOPKINS UNIV	4968	NAG 9 1220	JOHNS HOPKINS UNIV	4976
DETAILED MODELING AND ANALYSIS OF THE CPMF DATASET			DEFINITION PHASE MARTIAN NEUTRON ENERGY SPECTROMETER		
08/22/2001 – 08/31/2002	FY01: \$52,090	Total: \$52,090	04/10/2000 – 08/11/2000	FY01: \$0	Total: \$123,440
<i>Prin. Invest.:</i> W SWARTZ			<i>Prin. Invest.:</i> R H MAURER		
<i>Tech. Officer:</i> GSFC/P DECOLA			<i>Tech. Officer:</i> JSC/T A SULLIVAN		
<i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER			<i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE		
NAG 5 11332	JOHNS HOPKINS UNIV	4969	NAG 9 1345	JOHNS HOPKINS UNIV	4977
TIME-RESOLVED STUDY OF FLUORESCENCE IN FLUORESCENT PROTEIN BIOSENSORS			AWARD BASIC GRANT		
09/28/2001 – 08/31/2002	FY01: \$32,408	Total: \$32,408	07/27/2001 – 09/30/2004	FY01: \$41,000	Total: \$41,000
<i>Prin. Invest.:</i> J B KHURGIN			<i>Prin. Invest.:</i> J L HARDEN		
<i>Tech. Officer:</i> GSFC/H SHAW			<i>Tech. Officer:</i> KSC/D RISIN		
<i>CASE Category:</i> 45 – ELECTRICAL ENGR			<i>CASE Category:</i> 43 – CHEMICAL ENGR		
NAG 8 1257	JOHNS HOPKINS UNIV	4970	NAG13 00045	JOHNS HOPKINS UNIV	4978
RESEARCH "MEASUREMENT OF LIQUID-TO-SOLID NUCLEATION RATES IN UNDERCOOLED METALLIC MELTS			POLARIZATION DEPENDENCE OF GPS SIGNALS REFLECTED FROM THE OCEAN SURFACE		
04/18/1996 – 04/17/2000	FY01: \$0	Total: \$260,000	10/12/2000 – 10/11/2002	FY01: \$119,850	Total: \$119,850
<i>Prin. Invest.:</i> J L KATZ			<i>Prin. Invest.:</i> D R THOMPSON		
<i>Tech. Officer:</i> MSFC/P DOWNEY, MSFC/D WOODARD			<i>Tech. Officer:</i> SSC/R MILLER		
<i>CASE Category:</i> 19 – PHYSICAL SCIENCE, OTHER			<i>CASE Category:</i> 33 – OCEANOGRAPHY		

NAS 3 01146 **JOHNS HOPKINS UNIV** **4979**
 EPIREP/FIS ARCHITECTURE WORK
 04/30/2001 – 02/28/2002 FY01: \$190,122 Total: \$190,122
Prin. Invest.: L BACHMAN
Tech. Officer: GRC/G CHOMOS
CASE Category: 49 – ENGINEERING, OTHER

NAS 5 00166 **JOHNS HOPKINS UNIV** **4980**
 DEVELOPMENT OF SOLID STATE UV SOURCE
 06/14/2000 – 07/13/2001 FY01: \$99,631 Total: \$273,851
Prin. Invest.: J KANG
Tech. Officer: GSFC/F SELDON- JONES
CASE Category: 45 – ELECTRICAL ENGR

NAS 5 01072 **JOHNS HOPKINS UNIV** **4981**
 SUN EARTH CONNECTION LIVING WITH A STAR PROGRAM LETTER
 CONTRACT.
 12/21/2000 – 12/20/2012 FY01: \$1,447,000 Total: \$1,447,000
Prin. Invest.: N AVAILABLE
Tech. Officer: GSFC/J E ROBINSON
CASE Category: 11 – ASTRONOMY

NAS 5 30403 **JOHNS HOPKINS UNIV** **4982**
 SPACE TELESCOPE IMAGING SPECTROGRAPH PROGRAM SUPPORT
 02/04/1988 – 06/30/2003 FY01: \$290,000 Total: \$2,795,865
Prin. Invest.: W MOOS
Tech. Officer: GSFC/D VITABLANO
CASE Category: 41 – AERONAUTICAL ENGR

NAS 5 31373 **JOHNS HOPKINS UNIV** **4983**
 EOS INVESTIGATION
 12/13/1991 – 12/14/2001 FY01: \$0 Total: \$385,000
Prin. Invest.: J SALISBURY
Tech. Officer: GSFC/H BLODGET
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 32865 **JOHNS HOPKINS UNIV** **4984**
 DESIGN & DEVELOPMENT OF ADVANCED CAMERA SCIENCE
 08/25/1995 – 06/30/2003 FY01: \$469,400 Total: \$3,725,677
Prin. Invest.: D FORD, D I ILLINGWORTH
Tech. Officer: GSFC/C KREBS
CASE Category: 42 – ASTRONAUTICAL ENGR

NAS 5 32985 **JOHNS HOPKINS UNIV** **4985**
 PHASE C/D DESIGN AND DEVELOPMENT OF THE FAR ULTRA- VOILET
 SPECTROSCOPIC EXPLORER (FUZE) MISSION
 11/22/1995 – 12/07/2002 FY01: \$10,201,386 Total: \$140,638,386
Prin. Invest.: H W MOOS
Tech. Officer: GSFC/D R MENGERS
CASE Category: 11 – ASTRONOMY

NAS 5 97179 **JOHNS HOPKINS UNIV** **4986**
 TIMED PHASE C/D LETTER CONTRACT
 06/16/1997 – 09/09/2001 FY01: \$9,020,168 Total: \$120,130,864
Prin. Invest.: D GRANT
Tech. Officer: GSFC/J J WOLFF
CASE Category: 11 – ASTRONOMY

NAS 5 97271 **JOHNS HOPKINS UNIV** **4987**
 AEROSPACE RESEARCH, DESIGN, AND DEVELOPMENT TASKS FOR NASA
 10/01/1997 – 09/30/2002 FY01: \$91,336,152 Total: \$206,759,485
Prin. Invest.: T COUGHLIN
Tech. Officer: GSFC/J WOLFF
CASE Category: 11 – ASTRONOMY

NCC 1 01019 **JOHNS HOPKINS UNIV** **4988**
 ADAPTIVE DATA ANALYSIS AND PROCESSING TECHNOLOGY
 (ADAPT)--NRA-99-OES-08
 01/16/2001 – 03/10/2004 FY01: \$159,017 Total: \$159,017
Prin. Invest.: M A DARRIN, M A DARRIN
Tech. Officer: LARC/M E BEATTY, III
CASE Category: 45 – ELECTRICAL ENGR

NCC 3 812 **JOHNS HOPKINS UNIV** **4989**
 USING SURFACTANTS TO CONTROL BUBBLE GROWTH COALESC ENCE IN
 NUCLEATE POOL BOILING
 07/06/2000 – 05/31/2004 FY01: \$94,940 Total: \$151,940
Prin. Invest.: K J STEBE
Tech. Officer: GRC/F P CHIARAMONTE
CASE Category: 49 – ENGINEERING, OTHER

NCC 5 447 **JOHNS HOPKINS UNIV** **4990**
 COOPERATIVE RESEARCH IN HIGH ENERGY ASTROPHYSICS BETWEEN
 JHU AND GSFC
 12/21/1999 – 12/31/2001 FY01: \$262,512 Total: \$502,512
Prin. Invest.: E T VISHNIAC
Tech. Officer: GSFC/K E WEAVER
CASE Category: 11 – ASTRONOMY

NCC 5 500 **JOHNS HOPKINS UNIV** **4991**
 ATMOSPHERIC TRANSPORT: COMPARISON OF OBSERVATIONS AND
 MODELS
 05/08/2000 – 05/14/2002 FY01: \$35,223 Total: \$69,499
Prin. Invest.: D WAUGH
Tech. Officer: GSFC/A R DOUGLASS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 5 40029 **JOHNS HOPKINS UNIV** **4992**
 NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA
 01/24/1997 – 01/31/2001 FY01: -\$21,673 Total: \$1,748,327
Prin. Invest.: R C HENRY
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 40079 **JOHNS HOPKINS UNIV** **4993**
 MARYLAND SPACE GRANT COLLEGE & FELLOWSHIP PROGRAM
 02/09/2001 – 01/31/2002 FY01: \$496,673 Total: \$496,673
Prin. Invest.: R C HENRY
Tech. Officer: GSFC/D D DETROYE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 50259 **JOHNS HOPKINS UNIV** **4994**
 PROTEIN CRYSTALLIZATION AT INTERFACE STUDENT: JEFREY ERICKSON
 07/07/1999 – 06/30/2001 FY01: \$0 Total: \$44,000
Prin. Invest.: K J STEBE
Tech. Officer: GSFC/L SMITH
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 50268 **JOHNS HOPKINS UNIV** **4995**
 SURFACTANT FACILITATED SPREADING
 07/08/1999 – 06/30/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: K J STEBE/VAN NGUYE
Tech. Officer: GSFC/L SMITH
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 50328 **JOHNS HOPKINS UNIV** **4996**
 THE IMPACT OF DATA CONSTRAINTS IN GLOBAL CLIMATE MODELS
 (STUDENT: ANDREA MOLOD)
 08/17/2000 – 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: D WAUGH
Tech. Officer: GSFC/M WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 50372 **JOHNS HOPKINS UNIV** **4997**
 SYNTHESIS, GROWTH KINETICS, AND ASSEMBLY OF NANO PARTICLES
 06/13/2001 – 07/31/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: P C SEARSON
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 9 50 **JOHNS HOPKINS UNIV** **4998**
 AN INVESTIGATION OF THE ADDITIVITY AND LINEARITY
 07/05/2000 – 07/09/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: J DICELLO
Tech. Officer: JSC/F A CUCINOTTA
CASE Category: 56 – MEDICL

NAG 5 10230 **LOYOLA COLLEGE** **4999**
 APPLICATION OF GRADIENT-DESCENT IMAGE REGISTRATION TO
 SATELLITE IMAGERY.
 01/16/2001 – 01/31/2002 FY01: \$24,811 Total: \$24,811
Prin. Invest.: P EASTMAN
Tech. Officer: GSFC/J LE MOIGNE
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 4401 **MORGAN STATE UNIV** **5000**
 MODELING AND CHANGE POINT DETECTION IN MODIS ENGIN
 04/18/1997 – 12/31/2000 FY01: \$0 Total: \$36,000
Prin. Invest.: J SMID
Tech. Officer: GSFC/B MARKHAMR
CASE Category: 21 – MATHEMATICS

NAG 5 7136 **MORGAN STATE UNIV** **5001**
 CHARACTERIZATION AND SIMULATION OF GALLIUM NITRIDE ULTRAVIO-
 LETPHOTODETECTORS
 03/16/1998 – 08/30/2001 FY01: \$0 Total: \$300,000
Prin. Invest.: C J SCOTT
Tech. Officer: GSFC/B MOTT
CASE Category: 45 – ELECTRICAL ENGR

NAG 5 8574 **MORGAN STATE UNIV** **5002**
 SEM MULTIPURPOSE FACILITY/PHASE I
 07/21/1999 – 07/14/2002 FY01: -\$4,106 Total: \$1,098,252
Prin. Invest.: H WILLIAMS
Tech. Officer: GSFC/P HOLLOWAY
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 8857 **MORGAN STATE UNIV** **5003**
 INVESTIGATION OF THE MAGNETIC & ELECTRONIC PROPER TIES OF
 METAL & METAL OXIDE FILMS & MULTILAYER FOR
 09/28/1999 – 09/30/2001 FY01: \$100,000 Total: \$200,000
Prin. Invest.: C WILLIAMS
Tech. Officer: GSFC/J CHITWOOD
CASE Category: 13 – PHYSICS

NAG 5 8860 **MORGAN STATE UNIV** **5004**
 SCIENCE ENGINEERING & MATHEMATICS (SEM) ENRICH MENT PROGRAM
 FOR BALTIMORE MIDDLE & HIGH SCHOOL
 09/28/1999 – 07/14/2001 FY01: \$0 Total: \$357,205
Prin. Invest.: H WILLIAMS
Tech. Officer: GSFC/D MENCHAN
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 9215 **MORGAN STATE UNIV** **5005**
 FORGING A PARTNERSHIP: A TWENTY-FIRST CENTURY APPR OACH TO
 THE INVESTIGATION OF SCIENTIFIC& TECHNOL
 03/09/2000 – 12/14/2001 FY01: \$0 Total: \$850,000
Prin. Invest.: E DELOATCH
Tech. Officer: GSFC/G SOFFEN
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 9710 **MORGAN STATE UNIV** **5006**
 A PROPOSAL FOR NASA-RELATED RESEARCH CAPACITY BUIL DING AND
 OUTREACH BUILDING AND OUTREACHAT MORGAN
 06/29/2000 – 12/30/2001 FY01: \$0 Total: \$1,600,000
Prin. Invest.: D N WILLIAMS
Tech. Officer: GSFC/C PERSON
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 9895 **MORGAN STATE UNIV** **5007**
 WIDEBAND, LOW POWER SAMPLE-AND-HOLD CIRCUIT FOR DIGITAL
 MICROWAVE RADIOMETRY.
 08/29/2000 – 08/31/2001 FY01: \$0 Total: \$6,200
Prin. Invest.: D WHITE
Tech. Officer: GSFC/J PIEDMEIER
CASE Category: 45 – ELECTRICAL ENGR

NAG 5 10104 **MORGAN STATE UNIV** **5008**
 SPACE TECHNOLOGY 5 PROJECT. APPLICATION OF PRODUC- TION
 DESIGN CONSIDERATIONS TO NANO-SATELLITES
 12/13/2000 – 12/14/2001 FY01: \$5,000 Total: \$5,000
Prin. Invest.: G CHEN
Tech. Officer: GSFC/J OBERRIGHT
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 10913 **MORGAN STATE UNIV** **5009**
 DEVELOPING A SSPA UTILIZING WIDE BAND GAP SEMICON- DUCTOR
 MATERIAL
 05/22/2001 – 09/30/2001 FY01: \$13,244 Total: \$13,244
Prin. Invest.: C WHITE
Tech. Officer: GSFC/D NGUYEN
CASE Category: 45 – ELECTRICAL ENGR

NAG 5 10934 **MORGAN STATE UNIV** **5010**
 IMAGE REGISTRATION AND FUSION FOR FUTURE FORMATION FLYING
 SYSTEMS
 06/06/2001 – 06/14/2002 FY01: \$18,000 Total: \$18,000
Prin. Invest.: D COLE-RHODES
Tech. Officer: GSFC/J MOIGNE
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 10947 **MORGAN STATE UNIV** **5011**
 A PROPOSAL CAPACITY BUILDING FOR NASA RELATED AND OUTREACH AT
 MORGAN STATE UNIV
 05/25/2001 – 05/31/2002 FY01: \$1,600,000 Total: \$1,600,000
Prin. Invest.: D N WILLIAMS
Tech. Officer: GSFC/B WHITE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 11229 **MORGAN STATE UNIV** **5012**
 EXAMINE SAMPLES OF CARBON CARBONADOS.
 08/15/2001 – 08/14/2002 FY01: \$3,000 Total: \$3,000
Prin. Invest.: E C HAMMOND
Tech. Officer: GSFC/P TAYLOR
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 8 1847 **MORGAN STATE UNIV** **5013**
 POLYMERIZATION OF ADVANCED THERMOSETS IN MICROGRAVITY TO
 DEVELOP ULTRA LOW POLYMERS
 08/06/2001 – 07/31/2002 FY01: \$99,966 Total: \$99,966
Prin. Invest.: A KENNEDY
Tech. Officer: MSFC/E ORDONEZ
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 9 998 **MORGAN STATE UNIV** **5014**
 SMART-SENSOR DESIGN INCORPORATING SIGNAL PROCESSING FOR
 DATA-COMPRESSION AND FEATURE ENHANCEMENT
 03/31/1998 – 08/31/2001 FY01: \$0 Total: \$300,000
Prin. Invest.: J E WHITNEY
Tech. Officer: JSC/K KRISHEN
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NCC 5 122 **MORGAN STATE UNIV** **5015**
 MORGAN NETWORK RESOURCE TRAINING SITE
 08/15/1995 – 08/14/2000 FY01: \$0 Total: \$2,873,523
Prin. Invest.: W LUPTON
Tech. Officer: GSFC/J BENNETT
CASE Category: 22 – COMPUTER SCIENCE

NCC 5 204 **MORGAN STATE UNIV** **5016**
 THE MAGNETIC, TRANSPORT AND STRUCTURAL PROPERTIES OF
 MAGNETIC OXIDE FILMS
 06/11/1997 – 12/31/1999 FY01: \$0 Total: \$224,712
Prin. Invest.: C WILLIAMS, NONE
Tech. Officer: GSFC/J S CHITWOOD
CASE Category: 13 – PHYSICS

NCC 5 532 **MORGAN STATE UNIV** **5017**
 NRTS CONTINUATION/MUSPIN NRTS PROGRAM.
 02/01/2001 – 01/31/2002 FY01: \$350,000 Total: \$350,000
Prin. Invest.: W LUPTON
Tech. Officer: GSFC/J HARRINGTON
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NCC 5 565 **MORGAN STATE UNIV** **5018**
 SIGE ADC FOR DIGITAL MICROWAVE RADIOMETRY
 06/22/2001 – 06/14/2002 FY01: \$40,000 Total: \$40,000
Prin. Invest.: C WHITE
Tech. Officer: GSFC/J PIEDMEIER
CASE Category: 45 – ELECTRICAL ENGR

NCC 5 488 **TOWSON STATE UNIV** **5019**
 MULTI-AGENT SYSTEMS IN SPACECRAFT: INTELLIGENT AGENTS AND
 AGENT COMMUNITY MANAGEMENT
 04/14/2000 – 08/31/2001 FY01: \$25,000 Total: \$49,205
Prin. Invest.: B N NAG
Tech. Officer: GSFC/W TRUSZKOWSKI
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 6249 **U OF MD CTR FOR ENVIR SCI – CAMBRIDGE** **5020**
 TIMES-SCALES OF LAND-USE CHANGE AND EXPORT OF NITROGEN FROM
 THE COASTAL BASIN TO
 THE COASTAL ZONE
 08/19/1997 – 08/31/2001 FY01: \$0 Total: \$350,351
Prin. Invest.: P R FISHER
Prin. Invest.: NONE
Tech. Officer: GSFC/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6286 **U OF MD CTR FOR ENVIR SCI – CAMBRIDGE** **5021**
 REMOTE OBSERVATIONS AND MODELING OF PHYTOPLANKTON
 09/10/1997 – 08/31/2002 FY01: \$111,094 Total: \$753,539
Prin. Invest.: L HARDING
Tech. Officer: GSFC/J HARDING
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6387 **U OF MD CTR FOR ENVIR SCI – CAMBRIDGE** **5022**
 MODELLING N₂ AND CO₂ FIXATION BY THE OCEANIC DIAZOTROPHIC
 CYANOBACTERIUM TRICHODESMIUM
 10/18/1997 – 09/30/2001 FY01: \$0 Total: \$239,144
Prin. Invest.: R G HOOD
Tech. Officer: GSFC/J MARRA
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 7455 **U OF MD CTR FOR ENVIR SCI – CAMBRIDGE** **5023**
 INTEGRATING REMOTE AND IN SITU SENSING TO DETECT AND PREDICT
 CHANGE IN THE COASTAL ZONE
 07/28/1998 – 07/31/2000 FY01: \$0 Total: \$50,696
Prin. Invest.: T C MALONE
Tech. Officer: GSFC/J W CAMPBELL
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 7602 **U OF MD CTR FOR ENVIR SCI – CAMBRIDGE** **5024**
 REMOTE OBSERVATIONS IN THE CHOPTANK RIVER INDEX SYSTEM: OCEAN
 COLOR, SALINITY, TEMPERATURE AND CONDUCTIVITY
 07/21/1998 – 08/31/2002 FY01: \$95,040 Total: \$447,423
Prin. Invest.: L W HARDING
Tech. Officer: GSFC/J W CAMPBELL
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 9527 **U OF MD CTR FOR ENVIR SCI – CAMBRIDGE** **5025**
 WORKSHOP: DESIGN & IMPLEMENTATION PLAN FOR A HARMFUL ALGAL
 BLOOMS OBSERVING SYSTEM (HABSOS), A
 04/28/2000 – 04/30/2001 FY01: \$0 Total: \$25,000
Prin. Invest.: T MALONE
Tech. Officer: GSFC/J MARRA
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 11083 U OF MD CTR FOR ENVIR SCI - CAMBRIDGE 5026
 EFFECTS OF LAND USE, SOILS & HUMAN POPULATIONS ON EXPORT OF
 WATER, C, N, & P FROM THE MID-ATLANTIC
 07/19/2001 - 08/14/2002 FY01: \$81,621 Total: \$81,621
Prin. Invest.: T FISHER
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 11302 U OF MD CTR FOR ENVIR SCI - CAMBRIDGE 5027
 INDICES OF NUTRIENT ENRICHMENT IN U.S. ATLANTIC ESTUARIES FROM-
 REMOTE SENSING OF OCEAN COLOR AND
 08/30/2001 - 08/31/2005 FY01: \$72,963 Total: \$72,963
Prin. Invest.: L HARDING
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAS 5 00195 U OF MD CTR FOR ENVIR SCI - CAMBRIDGE 5028
 R&D TO SUPPORT GSFC'S SIMBIOS PROJECT
 12/18/2000 - 11/30/2001 FY01: \$114,713 Total: \$114,713
Prin. Invest.: L W HARDING
Tech. Officer: GSFC/C R MCCLAIN
CASE Category: 33 - OCEANOGRAPHY

NCC 5 493 U OF MD CTR FOR ENVIR SCI - CAMBRIDGE 5029
 REMOTE SENSING OF FOREST COMPOSITION AND STRUCTURE IN THE
 CENTRAL APPALACHIANS USING EO-1 HYPER
 04/19/2000 - 12/31/2001 FY01: \$68,198 Total: \$136,279
Prin. Invest.: P A TOWNSEND
Tech. Officer: GSFC/S G UNGAR
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 2 1195 UNIV OF MD - BIOTECH INST COLLEGE PARK 5030
 OCCURRENCE OF VIBRIO CHOLERAE IN THE BAY OF BENGAL & APPLICATION
 OF REMOTE SENSING METHODS FOR PREDICTION
 03/26/1998 - 03/31/2002 FY01: \$32,449 Total: \$141,067
Prin. Invest.: R R COLWELL
Tech. Officer: ARC/B L WOOD, ARC/M M AVERNER
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NCC 8 175 UNIV OF MD - BIOTECH INST COLLEGE PARK 5031
 R/S MICROBIAL RESISTANCE TO SOLAR RADIATION: DNA DAMAGE AND
 APPLICATION OF REPAIR ENZYMES IN BIOTECH
 01/15/1999 - 11/30/2002 FY01: \$89,500 Total: \$289,500
Prin. Invest.: J DI RUAGIERO
Tech. Officer: JSC/S GONDA
CASE Category: 54 - ENVIRONMENTAL BIOLOGY

NAG 1 1832 UNIV OF MARYLAND - COLLEGE PARK 5032
 DEVELOPMENT OF CORRECTIONS FOR BIOMASS BURNING EFFECTS IN
 VERSION TWO OF GEWEX SRB ALGORITHM
 04/30/1996 - 04/30/2000 FY01: -\$94 Total: \$260,609
Prin. Invest.: R T PINKER
Tech. Officer: LARC/A B CARLSON
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 1880 UNIV OF MARYLAND - COLLEGE PARK 5033
 LARGE EDDY SIMULATION OF THE SOUND EMISSION FROM UNSTEADY
 FLOW SEPARATION
 11/25/1996 - 11/30/1999 FY01: -\$1 Total: \$140,000
Prin. Invest.: U PIOMELLI
Tech. Officer: LARC/J L THOMAS
CASE Category: 41 - AERONAUTICAL ENGR

NAG 1 1897 UNIV OF MARYLAND - COLLEGE PARK 5034
 INVESTIGATION OF TROPICAL TROPOSPHERIC WATER VAPOR FROM MY 1/3
 02/13/1997 - 02/12/2000 FY01: -\$1 Total: \$168,000
Prin. Invest.: A E DESSLER
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 2024 UNIV OF MARYLAND - COLLEGE PARK 5035
 DIRECT MEASUREMENTS OF TROPOSPHERIC OZONE FROM TOMS DATA
 03/26/1998 - 01/31/2001 FY01: \$1 Total: \$351,001
Prin. Invest.: R D HUDSON
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 2285 UNIV OF MARYLAND - COLLEGE PARK 5036
 INTERACTION OF A BOUNDARY LAYER WITH A TURBULANT WAKE
 03/30/2000 - 03/31/2003 FY01: \$54,997 Total: \$104,953
Prin. Invest.: U PIOMELLI
Tech. Officer: LARC/C L STRETT/J L THOMAS
CASE Category: 41 - AERONAUTICAL ENGR

NAG 1 01084 UNIV OF MARYLAND - COLLEGE PARK 5037
 WHIRL FLUTTER OF TWO BLADED PROPELLOR/PYLON SYSTEM
 05/17/2001 - 03/31/2002 FY01: \$40,000 Total: \$40,000
Prin. Invest.: I CHOPRA
Tech. Officer: LARC/A S POTOTZKY, LARC/R G KVATERNIK
CASE Category: 41 - AERONAUTICAL ENGR

NAG 2 1311 UNIV OF MARYLAND - COLLEGE PARK 5038
 INSENSITIVITY OF CONTROL SYSTEM PERFORMANCE TO CONTROLLER &
 SYSTEM PARAMETERS
 03/17/1999 - 01/14/2001 FY01: \$0 Total: \$35,143
Prin. Invest.: W S LEVINE
Tech. Officer: ARC/M B TISCHLER
CASE Category: 41 - AERONAUTICAL ENGR

NAG 2 1329 UNIV OF MARYLAND - COLLEGE PARK 5039
 EVALUATION OF METHODOLOGY FOR TESTING AND ANALYSIS OF
 ADVANCED ROTOR SYSTEMS
 06/01/1999 - 04/30/2001 FY01: \$0 Total: \$137,436
Prin. Invest.: I CHOPRA
Tech. Officer: ARC/W G WARBRODT
CASE Category: 41 - AERONAUTICAL ENGR

NAG 2 1352 UNIV OF MARYLAND - COLLEGE PARK 5040
 MECHANOSENSITIVE CHANNELS IN BACTERIA: FUNCTIONAL DOMAINS &
 MECHANISMS OF GATING
 07/27/1999 - 07/31/2002 FY01: \$56,471 Total: \$359,055
Prin. Invest.: S I SUKHAREV
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 2 1405 UNIV OF MARYLAND - COLLEGE PARK 5041
 QUAD TILT ROTOR COMPUTATIONAL FLUID DYNAMICS PROGRAM
 04/28/2000 - 04/30/2002 FY01: \$300,000 Total: \$589,999
Prin. Invest.: F SCHMITZ, J BAEDER
Tech. Officer: ARC/R A STRAWN, ARC/C TUNG
CASE Category: 41 - AERONAUTICAL ENGR

NAG 2 1407 UNIV OF MARYLAND - COLLEGE PARK 5042
 DYNAMICS OF HELICOPTERS WITH ON-BLADE CONTROLS
 05/22/2000 - 05/31/2002 FY01: \$29,313 Total: \$71,849
Prin. Invest.: R CELI
Tech. Officer: ARC/M B TISCHER
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 1867 UNIV OF MARYLAND - COLLEGE PARK 5043
 CRITICAL SYNAMICS FOR AMBIENT TEMPERATURE AND LOW TEMPERA-
 TURE PHASE TRANSITIONS
 05/09/1996 - 01/31/2001 FY01: \$16,320 Total: \$438,320
Prin. Invest.: R A FERRELL
Tech. Officer: GRC/B S SINGH
CASE Category: 13 - PHYSICS

NAG 3 2106 UNIV OF MARYLAND - COLLEGE PARK 5044
 UNIV RESEARCH AND TRAINING PROGRAM IN HYPERS ONIC PROPULSION/
 AIRFRAME INTEGRATION
 02/05/1998 - 09/30/1999 FY01: -\$2,597 Total: \$147,403
Prin. Invest.: M J LEWIS
Tech. Officer: GRC/S R THOMAS
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2139 UNIV OF MARYLAND - COLLEGE PARK 5045
 SPECTRAL ELEMENT SIMULATIONS OF THERMAL CONVECTIO N IN A
 ROTARING HEMISPHERICAL SHELL WILL RADIAL G
 03/17/1998 - 01/05/2001 FY01: \$0 Total: \$101,000
Prin. Invest.: A DEANE
Tech. Officer: GRC/A CHAIT
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 3 2206 UNIV OF MARYLAND - COLLEGE PARK 5046
 INVESTIGATION OF POD BOILING HEAT TRANSFER MECHANI SMAS IN
 MICROGRAVITY USING AN ARRAY OF SURFACE MO
 10/28/1998 - 05/31/2001 FY01: \$0 Total: \$177,300
Prin. Invest.: J KIM
Tech. Officer: GRC/J B MCQUILLEN
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2223 UNIV OF MARYLAND - COLLEGE PARK 5047
 ROBUST DIAGNOSIS OF PLANETARY GEARTRAIN FAULTS ROBUST DIAG-
 NOSIS OF PLANETARYGEARTRAIN FAULTS
 01/08/1999 - 11/24/2001 FY01: \$72,000 Total: \$244,015
Prin. Invest.: D J PINES
Tech. Officer: GRC/D G LEWICKI
CASE Category: 46 - MECHANICAL ENGR

NAG 3 2228 UNIV OF MARYLAND - COLLEGE PARK 5048
 SUBCOOLED POOL BOILING HEAT TRANSFER MECHANISMS IN
 MICROGRAVITY: TERRIER-IMPROVED ORION SOUNDING RO
 02/12/1999 - 10/12/2000 FY01: -\$88 Total: \$36,026
Prin. Invest.: P KIM
Tech. Officer: GRC/J MCQUILLEN
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2337 UNIV OF MARYLAND - COLLEGE PARK 5049
 DATA-BASE ON FUEL AIR MIXING AND COMBUSTION FOR NA TIONAL
 COMBUSTION
 02/24/2000 - 02/02/2005 FY01: \$104,507 Total: \$144,507
Prin. Invest.: A K GUPTA
Tech. Officer: GRC/R R TACINA
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2479 UNIV OF MARYLAND - COLLEGE PARK 5050
 GEOPHYSICAL FLOW EXPERIMENT IN A ROTATING SPHERICA L
 CAPACITOR, UM #000508-7778
 07/26/2000 - 11/30/2003 FY01: \$41,621 Total: \$57,486
Prin. Invest.: D DEANE
Tech. Officer: GRC/F P CHIARAMONTE
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2480 UNIV OF MARYLAND - COLLEGE PARK 5051
 PROPULSION/AIRFRAME INTEGRATION FOR HYPERSONIC ACC ESS-TO-
 SPACE
 07/27/2000 - 09/30/2001 FY01: \$0 Total: \$74,306
Prin. Invest.: D J LEWIS
Tech. Officer: GRC/D T PALAC
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2568 UNIV OF MARYLAND - COLLEGE PARK 5052
 MATERIAL PROPERTIES GOVERNING COOCURRENT FLAME SPR EAD IN
 MICROGRAVITY
 03/20/2001 - 11/30/2004 FY01: \$100,000 Total: \$100,000
Prin. Invest.: J L TORERO
Tech. Officer: GRC/G A RUFF
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 2754 UNIV OF MARYLAND - COLLEGE PARK 5053
 PREPARATION OF FLIGHT OPERATIONS AND IWS INTERGRA- TION OF THE
 CELIAS EXPERIMENT ON THE SOHO SPACECR
 10/18/1994 - 10/31/1999 FY01: -\$201,054 Total: \$1,636,677
Prin. Invest.: F IPAVICH
Tech. Officer: GSFC/A POLAND
CASE Category: 11 - ASTRONOMY

NAG 5 2963 UNIV OF MARYLAND - COLLEGE PARK 5054
 SOLAR CYCLE DYNAMICS OF SOLAR MAGNETOSPHERIC AND HELIO-
 SPHERIC PARTICLES AND LONG-TERM ATMOSPHERIC..
 06/09/1995 - 09/30/2000 FY01: \$0 Total: \$4,114,335
Prin. Invest.: G M MASON
Tech. Officer: GSFC/T T VON ROSENINGE
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 3361 UNIV OF MARYLAND - COLLEGE PARK 5055
 ISO DATA ANALYSIS IN PROGRAM FOR RESEARCH TO BE CO NDUCTED AT
 THE UMD
 08/28/1996 - 08/31/2001 FY01: \$0 Total: \$196,200
Prin. Invest.: D G CURRLA
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 3454 UNIV OF MARYLAND - COLLEGE PARK 5056
 TERRESTRIAL MONITORING AT HIGH SPATIAL RESOLUTION: THE ROLE OF
 LANDSAT-TYPESENSORS IN MISSION.....
 10/07/1996 - 06/01/2002 FY01: \$122,138 Total: \$1,695,179
Prin. Invest.: S N GOWARD
Tech. Officer: GSFC/D L WILLIAMS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 3455 UNIV OF MARYLAND - COLLEGE PARK 5057
 ENHANCED ANTARCTIC RESEARCH WITH LANDSAT: ICE SHEE T
 DYNAMICS, HISTORY, AND CARTOGRAPHY
 10/07/1996 - 06/30/2001 FY01: \$16,000 Total: \$228,438
Prin. Invest.: M A FAHNSTOCK
Tech. Officer: GSFC/D L WILLIAMS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 3548 UNIV OF MARYLAND - COLLEGE PARK 5058
 RADAR BACKSCATTER MODELING AND ALGORITHM DEVELOPMENT FOR
 FORRESTER PARAMETERS RETRIEVAL FROM SAR DATA
 11/27/1996 - 11/30/1999 FY01: -\$75 Total: \$319,071
Prin. Invest.: S LIANG, G SUN
Tech. Officer: GSFC/J RANSON
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 3678 UNIV OF MARYLAND - COLLEGE PARK 5059
 TROPOSPHERIC CONVECTION AND STRATOSPHERE-TROPOSPHERE ON
 PHOTOCHEMISTRY, AEROSOLS, AND CLIMATE
 01/04/1997 - 01/14/2001 FY01: \$0 Total: \$830,000
Prin. Invest.: K E PICKERING
Tech. Officer: GSFC/M D HALL
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 3836 UNIV OF MARYLAND - COLLEGE PARK 5060
 LOW LUMINOSITY ACCRETION ONTO COMPACT OBJECTS
 02/11/1997 - 08/14/2001 FY01: \$0 Total: \$219,000
Prin. Invest.: J L WANG
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 3840 UNIV OF MARYLAND - COLLEGE PARK 5061
 MAGNETOHYDRODYNAMIC MODELS OF THE COLD INTERSTELLA
 02/14/1997 - 02/14/2002 FY01: \$0 Total: \$217,500
Prin. Invest.: E C OSTRICKER
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 3960 UNIV OF MARYLAND - COLLEGE PARK 5062
 THE EFFECT OF VARIATIONS IN PACIFIC FRESH-WATER AN INDIAN OCEAN
 02/18/1997 - 01/31/2002 FY01: \$0 Total: \$350,884
Prin. Invest.: R WAJSOWICZ
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 33 - OCEANOGRAPHY

NAG 5 4056 UNIV OF MARYLAND - COLLEGE PARK 5063
 SATELLITE BASED IDENTIFICATION OF LINKED VEGETATION SURFACE
 TEMPERATURE ANOMALY AREAS
 03/11/1997 - 03/14/2001 FY01: \$0 Total: \$400,350
Prin. Invest.: J R TOWNSHEND
Tech. Officer: GSFC/C J TUCKER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 4080 UNIV OF MARYLAND - COLLEGE PARK 5064
 OBSERVATIONS OF COMETS AND ASTEROIDS
 04/11/1997 - 11/30/2001 FY01: \$0 Total: \$300,000
Prin. Invest.: D F A'HEARN
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 - ASTRONOMY

NAG 5 4092 UNIV OF MARYLAND - COLLEGE PARK 5065
 A SPECTROSCOPIC INVESTIGATION INTO THE "MISSING UV"
 03/10/1997 - 12/31/1999 FY01: -\$6 Total: \$135,040
Prin. Invest.: D C BALACHANDRAN
Tech. Officer: GSFC/H HASAN
CASE Category: 11 - ASTRONOMY

NAG 5 4152 UNIV OF MARYLAND - COLLEGE PARK 5066
 CROSS CORRELATION OF SOLAR WIND PLASMA PARAMETERS SOHO AND
 SWE ON WIND
 03/25/1997 - 03/31/2000 FY01: \$0 Total: \$147,530
Prin. Invest.: D A COPLAN
Tech. Officer: GSFC/D EVANS
CASE Category: 13 - PHYSICS

NAG 5 4186 UNIV OF MARYLAND - COLLEGE PARK 5067
 A STUDY WITH ALTIMETRY OF LOW FREQUENCY VARIABILITY KUROSHIO
 EXTENSION
 04/01/1997 - 03/31/2001 FY01: \$4,451 Total: \$194,265
Prin. Invest.: L WANG
Tech. Officer: GSFC/N MAYNARD
CASE Category: 33 - OCEANOGRAPHY

NAG 5 4278 UNIV OF MARYLAND - COLLEGE PARK 5068
 GLOBAL MHD SIMULATION OF THE SOLAR NEBULA
 04/01/1997 - 03/31/2000 FY01: \$0 Total: \$144,586
Prin. Invest.: P M STONE
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 4313 UNIV OF MARYLAND - COLLEGE PARK 5069
 A SPACE PHYSICS ANALYSIS AND PLANNING TOOL
 05/09/1997 - 12/31/2001 FY01: \$0 Total: \$312,500
Prin. Invest.: D C GOODRICH
Tech. Officer: GSFC/J BREDEKAMP
CASE Category: 22 - COMPUTER SCIENCE

NAG 5 4429 UNIV OF MARYLAND - COLLEGE PARK 5070
 A LABORATORY AND OBSERVATIONAL STUDY OF THE CHEMICAL PROTO-
 STELLAR NEBULAE
 05/06/1997 - 09/30/2000 FY01: \$0 Total: \$137,670
Prin. Invest.: D G MUNDY
Tech. Officer: GSFC/D NAVA
CASE Category: 11 - ASTRONOMY

NAG 5 4638 UNIV OF MARYLAND - COLLEGE PARK 5071
 DEVELOPMENT OF ION AND ELECTRON PLASMA INSTRUMENT W DESIGN
 CONCEPTS FOR THE MINIMUM SOLAR MISSION
 05/30/1997 - 09/30/2000 FY01: \$0 Total: \$18,951
Prin. Invest.: M A COPLAN
Tech. Officer: GSFC/E C SITTLER
CASE Category: 13 - PHYSICS

NAG 5 4740 UNIV OF MARYLAND - COLLEGE PARK 5072
 THEORETICAL MODELS OF COMETARY OBSERVATIONS
 06/04/1997 - 05/31/2000 FY01: -\$5,256 Total: \$44,481
Prin. Invest.: D F A'HEARN
Tech. Officer: GSFC/W HUEBNER
CASE Category: 11 - ASTRONOMY

NAG 5 4811 UNIV OF MARYLAND - COLLEGE PARK 5073
 DEFORESTRATION AND DEGRADATION IN SOUTHERN AND CENTRAL
 06/25/1997 - 10/31/2001 FY01: \$0 Total: \$580,000
Prin. Invest.: S PRINCE
Tech. Officer: GSFC/G C GUTMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 5062 UNIV OF MARYLAND - COLLEGE PARK 5074
 THE ADVANCED THIN IONIZATION CALORIMETER (ATIC) BALLOON EXPERIMENT
 03/29/1996 - 09/30/2001 FY01: \$0 Total: \$1,534,597
Prin. Invest.: E S SEO
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/B A MARRITT
CASE Category: 13 - PHYSICS

NAG 5 5083 UNIV OF MARYLAND - COLLEGE PARK 5075
 PROTON MAGNETIC SPECTROMETER FOR CUSP MEASUREMENTS
 06/14/1996 - 12/31/1999 FY01: -\$204 Total: \$221,061
Prin. Invest.: M A COPLAN
Tech. Officer: GSFC/L W CURKIN
CASE Category: 13 - PHYSICS

NAG 5 5155 UNIV OF MARYLAND - COLLEGE PARK 5076
 OPTIMIZED CALORIMETER FOR ACCESS MEASUREMENTS OF Z-1-26 NUCLEI AND ELECTRONS
 03/26/1998 - 03/31/2002 FY01: \$0 Total: \$247,200
Prin. Invest.: E S SEO
Tech. Officer: GSFC/B A MERRITT/
CASE Category: 13 - PHYSICS

NAG 5 5204 UNIV OF MARYLAND - COLLEGE PARK 5077
 COSMIC-RAY ORIGIN, ACCELERATION, AND PROPAGATION SELECTED UNDER THE PRESIDENTIAL EARLY CAREER AWARD
 06/24/1998 - 06/30/2003 FY01: \$100,000 Total: \$400,000
Prin. Invest.: E S SEO
Tech. Officer: GSFC/B A MERRITT
CASE Category: 13 - PHYSICS

NAG 5 5225 UNIV OF MARYLAND - COLLEGE PARK 5078
 GRANT NAG5-5225 FOR ANTIMATTER AND COSMIC RAY STUDIES USING BESS. PI DR. EUN-SUK SEO
 03/16/1999 - 03/11/2002 FY01: \$95,000 Total: \$281,100
Prin. Invest.: E S SEO
Tech. Officer: GSFC/B A MERRITT
CASE Category: 13 - PHYSICS

NAG 5 5249 UNIV OF MARYLAND - COLLEGE PARK 5079
 COSMIC RAY ENERGETICS AND MASS (CREAM) COSMIC RAY ENERGETICS AND MASS (CREAM)
 03/13/2000 - 11/30/2002 FY01: \$1,060,000 Total: \$2,088,200
Prin. Invest.: E SEO
Tech. Officer: GSFC/B MERRITT
CASE Category: 13 - PHYSICS

NAG 5 5263 UNIV OF MARYLAND - COLLEGE PARK 5080
 SOUNDING ROCKET EXPERIMENT TO EXPLORE ELECTRO-DYNAMICS COUPLING
 03/02/2000 - 02/21/2003 FY01: \$98,377 Total: \$160,277
Prin. Invest.: M A COPLAN
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 - PHYSICS

NAG 5 5308 UNIV OF MARYLAND - COLLEGE PARK 5081
 FIRST YEAR FUNDING FOR NAG5-5308 FIRST YEAR FUNDING FOR NAG5-5308
 02/01/2001 - 11/30/2003 FY01: \$250,000 Total: \$250,000
Prin. Invest.: E S SEO
Tech. Officer: GSFC/B A MERRITT
CASE Category: 13 - PHYSICS

NAG 5 6004 UNIV OF MARYLAND - COLLEGE PARK 5082
 CHARACTERIZING LAND-COVER HETEROGENEITY AND LAND-C SENSOR SATELLITE DATA
 08/28/1997 - 03/14/2001 FY01: \$0 Total: \$573,934
Prin. Invest.: D DEFRIES
Tech. Officer: GSFC/G C GUTMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6059 UNIV OF MARYLAND - COLLEGE PARK 5083
 COLLISIONLESS SHOCK PHENOMENA IN THE SOLAR ATMOSPHERIC RADIO EMISSION
 07/29/1997 - 06/30/2001 FY01: \$0 Total: \$139,548
Prin. Invest.: D THEJAPPA
Tech. Officer: GSFC/W WAGNER
CASE Category: 11 - ASTRONOMY

NAG 5 6190 UNIV OF MARYLAND - COLLEGE PARK 5084
 MAGNETIC RECONNECTION AND ASSOCIATED WAVE AND PART IONIZATION-LESS PLASMA
 08/13/1997 - 06/30/2000 FY01: -\$149 Total: \$139,851
Prin. Invest.: D F DRAKE
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 - PHYSICS

NAG 5 6257 UNIV OF MARYLAND - COLLEGE PARK 5085
 RESEARCH IN SOLAR RADIO ASTRONOMY AT SHORT WAVELLENGTHS
 08/27/1997 - 08/31/2000 FY01: \$0 Total: \$149,000
Prin. Invest.: D KUNDU
Tech. Officer: GSFC/W WAGNER
CASE Category: 11 - ASTRONOMY

NAG 5 6282 UNIV OF MARYLAND - COLLEGE PARK 5086
 DETECTING THE LOCATION, SPATIAL EXTENT, RATES AND TROPICAL DEFORESTATION
 09/22/1997 - 12/31/1999 FY01: -\$681 Total: \$497,424
Prin. Invest.: J TOWNSHEND
Tech. Officer: GSFC/A C JANETOS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6319 UNIV OF MARYLAND - COLLEGE PARK 5087
 COMBINING REMOTE SENSING AND HYDROLOGICAL MODELING ENERGY BALANCE STUDIES
 09/11/1997 - 12/31/2000 FY01: \$0 Total: \$453,762
Prin. Invest.: R DUBAYAH
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6421 UNIV OF MARYLAND - COLLEGE PARK 5088
 GLOBAL VEGETATION DYNAMICS
 09/26/1997 - 06/30/2001 FY01: \$0 Total: \$693,429
Prin. Invest.: S D PRINCE
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6459 UNIV OF MARYLAND - COLLEGE PARK 5089
 VALIDATING MODIS/MISR LAND SURFACE REFLECTING AND ALBEDO PRODUCTS
 10/14/1997 - 09/30/2001 FY01: \$66,980 Total: \$360,529
Prin. Invest.: S LIANG
Tech. Officer: GSFC/D STARR
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 6464 UNIV OF MARYLAND - COLLEGE PARK 5090
EOS VALIDATION ACTIVITY IN A DESERT ENCROACHMENT ZONE OF SUB-SAHEL AFRICA
10/14/1997 - 09/30/2001 FY01: \$78,888 Total: \$495,819
Prin. Invest.: R PINKER
Tech. Officer: GSFC/D STARR
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 6483 UNIV OF MARYLAND - COLLEGE PARK 5091
EVALUATION OF OPERATIONAL LONGWAVE RADIATION BUDGET PARAMETERS USING THE GOES SOUNDERS
11/18/1997 - 06/30/2002 FY01: \$209,834 Total: \$839,848
Prin. Invest.: P ELLINGSON
Tech. Officer: GSFC/J DODGE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6526 UNIV OF MARYLAND - COLLEGE PARK 5092
MECHANOSENSITIVE ION CHANNELS IN BACTERIA
04/02/1998 - 02/28/2000 FY01: -\$1 Total: \$243,243
Prin. Invest.: S I SUKHAVREV
Tech. Officer: GSFC/L P CHAMBERS
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 5 6547 UNIV OF MARYLAND - COLLEGE PARK 5093
ORIGIN AND IMPACT OF NUCLEAR ACTIVITY IN GALAXIES (L TSA)
10/29/1997 - 10/31/2001 FY01: \$32,300 Total: \$117,452
Prin. Invest.: S VEILLEUX
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 6630 UNIV OF MARYLAND - COLLEGE PARK 5094
COREGISTRATION, THRESHOLDING, AND STOCHASTIC METHODS OF VALIDATION OF RAINFALL ESTIMATES FROM SPA
12/05/1997 - 01/14/2001 FY01: -\$45 Total: \$164,955
Prin. Invest.: B KEDEM
Tech. Officer: GSFC/O A THIELE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 6667 UNIV OF MARYLAND - COLLEGE PARK 5095
EVALUATION OF ACCURACIES IN GEOPHYSICAL PARAMETERS DERIVED FROM PATHFINDER DATA
12/10/1997 - 12/31/2001 FY01: \$0 Total: \$363,808
Prin. Invest.: P PINKER
Tech. Officer: GSFC/J DODGE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6682 UNIV OF MARYLAND - COLLEGE PARK 5096
INTERANNUAL VARIABILITY, TRENDS, AND TRACER CORRELATIONS IN THE UARS DATA SET
12/08/1997 - 11/30/2001 FY01: \$0 Total: \$158,542
Prin. Invest.: D B CONSIDINE
Tech. Officer: GSFC/A DOUGLASS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 6699 UNIV OF MARYLAND - COLLEGE PARK 5097
ENHANCED METADATA EXTRACTION FOR NASA'S REGIONAL VALIDATION CENTERS SYSTEM
12/12/1997 - 03/31/2002 FY01: \$42,000 Total: \$189,770
Prin. Invest.: J JAJA
Tech. Officer: GSFC/J LEMONIGNE
CASE Category: 22 - COMPUTER SCIENCE

NAG 5 6750 UNIV OF MARYLAND - COLLEGE PARK 5098
ANALYSIS TOOLS FOR IR LINE AND CONTINUUM OBSERVATIONS; COBE AND THE STRUCTURE OF THE GALACTIC I
01/12/1998 - 01/14/2002 FY01: \$0 Total: \$208,147
Prin. Invest.: M WOLFIRE
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 6970 UNIV OF MARYLAND - COLLEGE PARK 5099
MACHINE LEARNING TO IMPROVE LAND COVER CLASSIFICATIONS FROM MULTISENSOR AND MULTITEMPORAL DATA
03/12/1998 - 09/30/2001 FY01: \$61,178 Total: \$305,083
Prin. Invest.: R E DEFRIES
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7058 UNIV OF MARYLAND - COLLEGE PARK 5100
ICE FLOW IN THE NORTHEAST GREENLAND ICE STREAM: MEASUREMENT AND ANALYSIS
03/04/1998 - 02/28/2002 FY01: \$0 Total: \$272,998
Prin. Invest.: M FAHNESTOCK
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7069 UNIV OF MARYLAND - COLLEGE PARK 5101
TRANSPORT OF ENERGETIC PARTICLES IN THE GALAXY - A TP
03/02/1998 - 02/28/2001 FY01: \$0 Total: \$202,993
Prin. Invest.: A LUKASIAK
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 7111 UNIV OF MARYLAND - COLLEGE PARK 5102
SOLAR WIND AND SUPRATHERMAL ION COMPOSITION ON WIND
03/25/1998 - 03/14/2001 FY01: \$0 Total: \$1,075,000
Prin. Invest.: G GLOECKLER
Tech. Officer: GSFC/K OBILVIE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 7141 UNIV OF MARYLAND - COLLEGE PARK 5103
PIONEER 10/11 AND ULYSSES STUDY OF ENERGETIC PARTICLES IN THE HELIOSPHERE
03/12/1998 - 02/28/2001 FY01: \$0 Total: \$329,500
Prin. Invest.: F B MCDONALD
Tech. Officer: GSFC/J LING
CASE Category: 11 - ASTRONOMY

NAG 5 7145 UNIV OF MARYLAND - COLLEGE PARK 5104
EMISSION PROCESSES ASSOCIATED WITH SOLAR TYPE III RADIATION BURSTS
03/23/1998 - 04/14/2002 FY01: \$24,796 Total: \$162,414
Prin. Invest.: T GOLLA
Tech. Officer: GSFC/W WAGNER
CASE Category: 11 - ASTRONOMY

NAG 5 7263 UNIV OF MARYLAND - COLLEGE PARK 5105
VERTICAL TRANSPORT PROCESSES IN THE SASS/GMI CHEMICAL TRANSPORT MODEL: DEVELOPMENT, EVALUATION, AND
04/29/1998 - 04/30/2001 FY01: \$0 Total: \$170,883
Prin. Invest.: K PICKERING
Tech. Officer: GSFC/R W STEWART
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7419 UNIV OF MARYLAND - COLLEGE PARK 5106
 SIMULATION OF RADIOACTIVE TRACERS TO EVALUATE TRANSPORT AND
 SCAVENGING IN THE GMI CORE MODEL
 06/29/1998 - 04/30/2001 FY01: \$0 Total: \$162,321
Prin. Invest.: D CONSIDINE
Tech. Officer: GSFC/R W STEWART
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7536 UNIV OF MARYLAND - COLLEGE PARK 5107
 BOREAL ECOSYSTEM-ATMOSPHERE INFORMATION SYSTEMS DESIGN
 AND OPERATION
 06/18/1998 - 12/31/1999 FY01: -\$147 Total: \$89,779
Prin. Invest.: K HUMMERICK
Tech. Officer: GSFC/F HALL
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7587 UNIV OF MARYLAND - COLLEGE PARK 5108
 TERRESTRIAL ENVIRONMENTAL VARIABLES DERIVED FROM EOS PLAT-
 FORM
 06/29/1998 - 07/31/2001 FY01: \$0 Total: \$241,817
Prin. Invest.: S N GOWARD
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7628 UNIV OF MARYLAND - COLLEGE PARK 5109
 LEARNING CONTROLLERS FOR ENHANCED AUTONOMY OF SPACE
 ROBOTS
 08/24/1998 - 04/30/2000 FY01: \$0 Total: \$64,930
Prin. Invest.: D SANNER
Tech. Officer: HQ/D LAVERY
CASE Category: 11 - ASTRONOMY

NAG 5 7634 UNIV OF MARYLAND - COLLEGE PARK 5110
 ISOTOPIC AND GEOCHEMICAL INVESTIGATIONS OF METEORITES
 09/10/1998 - 07/31/2002 FY01: \$0 Total: \$209,000
Prin. Invest.: R J WALKER
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 7678 UNIV OF MARYLAND - COLLEGE PARK 5111
 MISSION OPERATIONS AND DATA ANALYSIS OF THE CELIAS
 EXPERIMENT ON SOHO PRIOR GRANT 2754
 09/17/1998 - 04/30/2001 FY01: \$0 Total: \$400,000
Prin. Invest.: F IPAVICH
Tech. Officer: GSFC/J GURMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 7762 UNIV OF MARYLAND - COLLEGE PARK 5112
 WIND/SOHO GUEST OBSERVER PROGRAM FOR STUDY OF SOLAR ENER-
 GETIC PARTICLES AND GALACTIC
 12/24/1998 - 09/30/2001 FY01: \$87,200 Total: \$251,100
Prin. Invest.: F B MCDONALD
Tech. Officer: GSFC/M GUHATHAKURTA
CASE Category: 11 - ASTRONOMY

NAG 5 7842 UNIV OF MARYLAND - COLLEGE PARK 5113
 OBSERVING SYSTEM SIMULATION EXPERIMENTS AND 4DDA ASSOCIATED
 WITH CAMEX3
 11/27/1998 - 11/30/2001 FY01: \$0 Total: \$270,000
Prin. Invest.: D ZHANG
Tech. Officer: GSFC/A F NEGRI
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7901 UNIV OF MARYLAND - COLLEGE PARK 5114
 EIT STUDIES OF LARGE SCALE STRUCTURES IN THE SOLAR CORONA
 12/02/1998 - 12/14/2000 FY01: \$0 Total: \$138,357
Prin. Invest.: M R KUNDU
Tech. Officer: GSFC/J GURMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 7958 UNIV OF MARYLAND - COLLEGE PARK 5115
 DYNAMICS OF DUST IN THE JOVIAN SYSTEM
 01/27/1999 - 02/28/2001 FY01: \$0 Total: \$99,321
Prin. Invest.: D P HAMILTON
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 - ASTRONOMY

NAG 5 8029 UNIV OF MARYLAND - COLLEGE PARK 5116
 THIS GRANT WILL CONDUCT BASIC SCIENTIFIC RESEARCH IN THE
 PHYSICS OF SOLAR FLARES; INCREASING
 01/15/1999 - 04/01/2000 FY01: -\$2,652 Total: \$108,006
Prin. Invest.: E J SCHMAHL
Tech. Officer: GSFC/C J CRANNELL
CASE Category: 13 - PHYSICS

NAG 5 8033 UNIV OF MARYLAND - COLLEGE PARK 5117
 SUPPORT OF DATA ACCESS FOR THE IMP-8 UMD EXPERIMENT
 01/19/1999 - 01/31/2002 FY01: \$5,630 Total: \$16,937
Prin. Invest.: F IPAVICH
Tech. Officer: GSFC/J KING
CASE Category: 11 - ASTRONOMY

NAG 5 8079 UNIV OF MARYLAND - COLLEGE PARK 5118
 A PROPOSAL TO ASSIST IN THE INTERPRETATION OF DATA FROM THE
 COSMIC RAY ISOTOPE SPECTROMETER EXPERIMENT
 01/14/1999 - 12/31/2001 FY01: \$48,600 Total: \$140,400
Prin. Invest.: D LUKASIAK
Tech. Officer: GSFC/D C LING
CASE Category: 11 - ASTRONOMY

NAG 5 8105 UNIV OF MARYLAND - COLLEGE PARK 5119
 GEOMORPHOLOGICAL ANALYSIS OF TERRAINS ON EARTH AND
 MARSPOP: 2/1/99-1/31/00
 02/19/1999 - 05/31/2001 FY01: \$0 Total: \$107,623
Prin. Invest.: R DUBAYAH
Tech. Officer: GSFC/J B GARVIN
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 8121 UNIV OF MARYLAND - COLLEGE PARK 5120
 GENERATION OF A CONSISTENT TERRESTRIAL NET PRIMARY PRODUCTION
 DATA SET: PART II
 01/26/1999 - 12/31/2001 FY01: \$9,124 Total: \$187,510
Prin. Invest.: S D PRINCE
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8177 UNIV OF MARYLAND - COLLEGE PARK 5121
 DISTRIBUTION OF IJRS SPECIAL ISSUE ON GLOBAL AND REGIONAL LAND
 COVER CHARACTERIZATION FROM REMOTE
 02/09/1999 - 12/31/2000 FY01: \$0 Total: \$15,037
Prin. Invest.: R DEFRIES
Tech. Officer: GSFC/A C JANETOS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8179 UNIV OF MARYLAND - COLLEGE PARK 5122
 INTERNATIONAL FORUM ON BRDF
 02/12/1999 - 12/30/2000 FY01: \$0 Total: \$14,993
Prin. Invest.: S LIANG
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8189 UNIV OF MARYLAND - COLLEGE PARK 5123
 OCCULTATION SYSTEM UPGRADE
 03/08/1999 - 03/14/2002 FY01: \$0 Total: \$128,231
Prin. Invest.: M F A'HEARN
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 - ASTRONOMY

NAG 5 8192 UNIV OF MARYLAND - COLLEGE PARK 5124
 RESEARCH IN SOLAR RADIO ASTRONOMY AT SHORT WAVELENGTHS
 05/13/1999 - 05/31/2002 FY01: \$182,255 Total: \$342,214
Prin. Invest.: M R KUNDU, NONE
Tech. Officer: GSFC/W J WAGNER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8230 UNIV OF MARYLAND - COLLEGE PARK 5125
 COMPARISON OF THE RADIATIVE AND PHYSIOLOGICAL EFFECTS OF
 DOUBLED CO2 ON THE GLOBAL CLIMATE AND DEVELOPMENT
 03/01/1999 - 11/30/2000 FY01: \$0 Total: \$151,808
Prin. Invest.: L BOUNOUA
Tech. Officer: GSFC/J G COLLATZ
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8263 UNIV OF MARYLAND - COLLEGE PARK 5126
 SALINITY EFFECTS ON INTRA-SEASONAL TO INTERANNUAL VARIABILITY
 OF COUPLED CLIMATE PREDICTION MODELS
 02/22/1999 - 12/31/2001 FY01: \$149,463 Total: \$429,840
Prin. Invest.: R MURTUGUDDE
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8289 UNIV OF MARYLAND - COLLEGE PARK 5127
 DYNAMICAL DIAGNOSIS OF THE NSIPP ATMOSPHERIC AND COUPLED
 MODEL SIMULATIONS
 02/24/1999 - 02/28/2002 FY01: \$101,935 Total: \$302,305
Prin. Invest.: S NIGAM
Tech. Officer: GSFC/M RIENECKER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 8366 UNIV OF MARYLAND - COLLEGE PARK 5128
 SURFACE RADIATION BUDGETS FOR LBA
 03/08/1999 - 02/28/2002 FY01: \$100,457 Total: \$290,045
Prin. Invest.: R T PINKER
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8398 UNIV OF MARYLAND - COLLEGE PARK 5129
 CONDUCT RESEARCH IN RAREFIED GAS DYNAMICS TO SUPPORT THE
 DEVELOPMENT OF NASA'S GLOBAL ELECTRODYNAMICS
 05/10/1999 - 05/14/2002 FY01: \$37,000 Total: \$150,000
Prin. Invest.: D J LEWIS
Tech. Officer: GSFC/J FIORA
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 8411 UNIV OF MARYLAND - COLLEGE PARK 5130
 ISTEP GGS SOLARMAX
 03/16/1999 - 02/28/2001 FY01: \$0 Total: \$640,000
Prin. Invest.: K PAPAPOPOULOS
Tech. Officer: GSFC/S CURTIS
CASE Category: 11 - ASTRONOMY

NAG 5 8459 UNIV OF MARYLAND - COLLEGE PARK 5131
 EQ-S MISSIONS OPERATIONS AND DATA ANALYSIS
 04/19/1999 - 04/14/2002 FY01: \$51,041 Total: \$139,871
Prin. Invest.: J DRAKE
Tech. Officer: GSFC/M HESSE
CASE Category: 13 - PHYSICS

NAG 5 8528 UNIV OF MARYLAND - COLLEGE PARK 5132
 ENSEMBLE OCEAN-ATMOSPHERE PERTURBATIONS WITH GROWING
 ENSO USING BREEDING
 05/26/1999 - 05/31/2002 FY01: \$194,706 Total: \$584,118
Prin. Invest.: E KALNAY
Tech. Officer: GSFC/M RIENECKER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8575 UNIV OF MARYLAND - COLLEGE PARK 5133
 DEVELOPMENT OF PROCEDURES FOR SELECTING LANDSAT SCENES FOR
 EARTH SYSTEM SCIENCE
 06/07/1999 - 12/31/2000 FY01: \$0 Total: \$69,968
Prin. Invest.: J TOWNSHEND
Tech. Officer: GSFC/C J TUCKER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8583 UNIV OF MARYLAND - COLLEGE PARK 5134
 PLUME IMPINGEMENT MODELING FOR SPACECRAFT DESIGN
 06/08/1999 - 06/14/2001 FY01: \$0 Total: \$50,000
Prin. Invest.: M J LEWIS
Tech. Officer: GSFC/M RHEE
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 5 8595 UNIV OF MARYLAND - COLLEGE PARK 5135
 PHYSICAL & BIOGEOCHEMICAL PROCESSES WITH THE INDIA OCEAN: A
 STUDY OF ANNUAL & INTERANNUAL VARIABILITY
 06/07/1999 - 11/30/2001 FY01: \$0 Total: \$272,923
Prin. Invest.: R MURTUGUDDE
Tech. Officer: GSFC/J W CAMPBELL
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8596 UNIV OF MARYLAND - COLLEGE PARK 5136
 YEAR 1 FUNDING FROM HPCC/ESS PROJECT FOR PROPOSAL TITLE: AN
 ADAPTIVE MHD CODE BASED ON CHARACTERISTICS
 06/11/1999 - 06/14/2002 FY01: \$43,620 Total: \$146,327
Prin. Invest.: A DEANE
Tech. Officer: GSFC/J R FISCHER
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 8613 UNIV OF MARYLAND - COLLEGE PARK 5137
 CLIMATE CHANGE, EXTREME COASTAL WATER LEVEL EVENTS AND
 COASTAL EROSION
 06/11/1999 - 12/31/2000 FY01: \$0 Total: \$72,761
Prin. Invest.: B DOUGLAS
Tech. Officer: GSFC/E PAYLOR
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8621 UNIV OF MARYLAND - COLLEGE PARK 5138
 ANALYSIS OF DATA FROM THE SWE EXPERIMENT ON THE WIND SPACE-
 CRAFT
 06/16/1999 - 03/31/2001 FY01: \$0 Total: \$31,144
Prin. Invest.: M COPLAN, NONE
Tech. Officer: GSFC/K OGILVIE
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 8678 UNIV OF MARYLAND - COLLEGE PARK 5139
 ROLE OF GRAY SQUIRRELS IN MAINTAINING LIFE CYCLE
 07/09/1999 - 08/31/2002 FY01: \$0 Total: \$18,885
Prin. Invest.: L W ADAMS
Tech. Officer: GSFC/D E WALTER
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 5 8711 UNIV OF MARYLAND - COLLEGE PARK 5140
 DEVELOPMENT OF A HIGH SPEED, HIGH FUNCTIONALITY, RELIABLE FIBER
 OPTICS SWITCH MODULE BASED ON RESON
 07/21/1999 - 09/30/2000 FY01: \$0 Total: \$45,000
Prin. Invest.: D DAGENAIS
Tech. Officer: GSFC/H C SHAW
CASE Category: 45 - ELECTRICAL ENGR

NAG 5 8764 UNIV OF MARYLAND - COLLEGE PARK 5141
 MODELS & ALGORITHMS FOR FOREST DYNAMIC STUDIES IN SIBERIA &
 NORTHEASTERN CHINA USING MULTI-SATELLITE
 09/10/1999 - 11/30/2002 FY01: \$115,291 Total: \$224,080
Prin. Invest.: G SUN
Tech. Officer: GSFC/K J RANSON
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8789 UNIV OF MARYLAND - COLLEGE PARK 5142
 CENTRAL AFRICA REGIONAL PROGRAM FOR THE ENVIRONMEN T
 09/03/1999 - 08/31/2000 FY01: \$0 Total: \$76,729
Prin. Invest.: N T LAPORTE-GOETZ
Tech. Officer: GSFC/C J TUCKER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8809 UNIV OF MARYLAND - COLLEGE PARK 5143
 COMBINING HYDROLOGICAL MODELING AND REMOTE SENSING FOR
 APPLIED MACROSCALE WATER AND ENERGY BALAN
 09/08/1999 - 09/30/2000 FY01: \$0 Total: \$66,163
Prin. Invest.: R DUBAYAH
Tech. Officer: GSFC/E WOOD
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8833 UNIV OF MARYLAND - COLLEGE PARK 5144
 THE REDSHIFT DEPENDENCE OF THE INTERACTION- ACTIVITY CONNec-
 TION AMONG ULTRALUMINOUS STARBURST
 09/12/2000 - 09/14/2002 FY01: \$8,325 Total: \$17,432
Prin. Invest.: P J TEUBEN
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 8842 UNIV OF MARYLAND - COLLEGE PARK 5145
 AWARD FUNDING TO THE UNIV OF MARYLAND FOR PROPOSAL ENTITLED
 "OCTOBER ASTROPHYSICS CONFER
 09/24/1999 - 09/30/2002 FY01: \$25,000 Total: \$75,000
Prin. Invest.: J D TRASCO
Tech. Officer: GSFC/D NORTON
CASE Category: 11 - ASTRONOMY

NAG 5 8849 UNIV OF MARYLAND - COLLEGE PARK 5146
 SOLAR FLARE PHYSICS
 12/16/1999 - 01/14/2001 FY01: \$0 Total: \$118,283
Prin. Invest.: E J SCHMAHL
Tech. Officer: GSFC/B R DENNIS
CASE Category: 11 - ASTRONOMY

NAG 5 8877 UNIV OF MARYLAND - COLLEGE PARK 5147
 SOLAR CYCLE DYNAMICS STUDIES WITH SAMPEX
 11/24/1999 - 11/30/2001 FY01: \$756,000 Total: \$1,550,000
Prin. Invest.: G MASON
Tech. Officer: GSFC/T VON ROSENVINGE
CASE Category: 11 - ASTRONOMY

NAG 5 8936 UNIV OF MARYLAND - COLLEGE PARK 5148
 AN INVESTIGATION OF TROPICAL UPPER TROPOSPHERIC HUMIDITY
 01/18/2000 - 11/30/2001 FY01: \$112,117 Total: \$259,155
Prin. Invest.: A DESSLER
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9075 UNIV OF MARYLAND - COLLEGE PARK 5149
 ULTRA-WIDEBAND MICROWAVE SPECTROMETERS FOR HETEROD YNE
 SPECTROSCOPY
 02/16/2000 - 02/28/2002 FY01: \$100,000 Total: \$228,000
Prin. Invest.: A HARRIS
Tech. Officer: GSFC/G STRINGFELLOW
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9108 UNIV OF MARYLAND - COLLEGE PARK 5150
 MAGNETIC RECONNECTION & ASSOCIATED WAVE & PARTICLE SIGNA-
 TURES IN COLLISIONLESS PLASMA
 02/23/2000 - 02/28/2003 FY01: \$91,362 Total: \$176,162
Prin. Invest.: J F DRAKE
Tech. Officer: GSFC/J SHARBER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9150 UNIV OF MARYLAND - COLLEGE PARK 5151
 CENTER FOR SATELLITE AND HYBRID COMMUNICATION NETWORKS, NASA
 COMMERCIAL SPACE CENTER
 03/03/2000 - 09/01/2001 FY01: \$0 Total: \$1,000,000
Prin. Invest.: J BARAS
Tech. Officer: GSFC/R DEPAULA
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9151 UNIV OF MARYLAND - COLLEGE PARK 5152
 UNDERGRADUATE AND GRADUATE STUDENT TRAINING IN AERONAUTICS
 RESEARCH (STAR)
 03/02/2000 - 02/28/2001 FY01: \$27,000 Total: \$53,798
Prin. Invest.: M GAVRILAS
Tech. Officer: GSFC/M S BURRELL
CASE Category: 41 - AERONAUTICAL ENGR

NAG 5 9167 UNIV OF MARYLAND - COLLEGE PARK 5153
 EVOLUTIONARY MODELS OF COLD, MAGNETIZED, INTERSTEL LAR
 CLOUDS (ATP 99)
 03/15/2000 - 03/14/2002 FY01: \$90,530 Total: \$173,503
Prin. Invest.: E OSTRIKER
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9228 UNIV OF MARYLAND - COLLEGE PARK 5154
 ESTABLISHMENT OF CENTER FOR ADVANCED INFORMATION
 TECHNOLOGY
 03/20/2000 - 02/28/2002 FY01: \$0 Total: \$2,000,000
Prin. Invest.: G L GEOFFROY
Tech. Officer: GSFC/M PHELPS
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9271 UNIV OF MARYLAND - COLLEGE PARK 5155
 PDRS IN GALAXIES: FROM THE LOCAL UNIVERSE TO HIGH Z STARBURSTS
 (L TSA 99)
 03/15/2000 - 03/14/2002 FY01: \$84,083 Total: \$130,777
Prin. Invest.: M WOLFIRE
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9282 UNIV OF MARYLAND - COLLEGE PARK 5156
 MISSION OPERATIONS & DATA ANALYSIS FOR THE CELIAS/ MT OF EXPERI-
 MENT
 04/06/2000 - 04/30/2002 FY01: \$350,000 Total: \$750,000
Prin. Invest.: F I PAVICH
Tech. Officer: GSFC/J GURMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 9319 UNIV OF MARYLAND - COLLEGE PARK 5157
 AN INTEGRATED FOREST MONITORING SYSTEM FOR CENTRAL ASIA
 03/22/2000 - 03/31/2002 FY01: \$120,224 Total: \$201,720
Prin. Invest.: N LAPORTE, NONE
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9329 UNIV OF MARYLAND - COLLEGE PARK 5158
 INTER-ANNUAL LAND SURFACE VARIATION
 03/24/2000 - 04/30/2002 FY01: \$221,967 Total: \$382,505
Prin. Invest.: S D PRINCE
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9337 UNIV OF MARYLAND - COLLEGE PARK 5159
 IMPROVEMENTS IN LANDSAT PATHFINDER METHODS FOR MON ITORING
 TROPICAL DEFORESTATION & THEIR EXTENSION
 03/27/2000 - 04/30/2002 FY01: \$119,255 Total: \$291,348
Prin. Invest.: J R TOWNSHEND
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9338 UNIV OF MARYLAND - COLLEGE PARK 5160
 MONITORING FOREST DYNAMICS IN NORTHEASTEN CHINA IN SUPPORT
 OF GOFC
 03/31/2000 - 04/30/2002 FY01: \$105,741 Total: \$176,441
Prin. Invest.: G SUN
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9339 UNIV OF MARYLAND - COLLEGE PARK 5161
 TOWARDS METHODOLOGIES FOR GLOBAL MONITORING OF FOR EST
 COVER CHARACTERISTICS WITH COARSE
 03/31/2000 - 04/30/2002 FY01: \$114,324 Total: \$191,624
Prin. Invest.: R DEFRIES
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9411 UNIV OF MARYLAND - COLLEGE PARK 5162
 UNDERSTANDING WATER, ENERGY AND CLIMATE: A GEWEX GLOBAL
 WATER & ENERGY BIDGET PATHFINDER DATA SET
 04/10/2000 - 04/30/2002 FY01: \$48,533 Total: \$78,333
Prin. Invest.: R DUBAYAH
Tech. Officer: GSFC/J DODGE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9440 UNIV OF MARYLAND - COLLEGE PARK 5163
 CONTRIBUTION OF EMISSIONS FROM BOREAL FOREST FIRES
 04/13/2000 - 04/30/2002 FY01: \$222,068 Total: \$398,951
Prin. Invest.: K KASISCHKE
Tech. Officer: GSFC/D WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9447 UNIV OF MARYLAND - COLLEGE PARK 5164
 TERRESTRIAL HYDROLOGY & CLIMATE STUDIES USING EOS- ERA DATA
 04/12/2000 - 04/14/2003 FY01: \$90,478 Total: \$151,972
Prin. Invest.: R DUBAYAH
Tech. Officer: GSFC/P HOUSER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9481 UNIV OF MARYLAND - COLLEGE PARK 5165
 WORKSHOP: DESIGN & IMPLEMENTATION PLAN FOR A HARM FUL ALGAL
 BLOOMS OBSERVING SYSTEM (HABSOS), A
 04/19/2000 - 04/30/2001 FY01: \$0 Total: \$0
Prin. Invest.: T MALONE
Tech. Officer: GSFC/J MARRA
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9524 UNIV OF MARYLAND - COLLEGE PARK 5166
 A STUDY OF INTERANNUAL AND DECADEAL VARIABILITY IN THE PACIFIC
 04/26/2000 - 05/31/2001 FY01: \$0 Total: \$43,526
Prin. Invest.: L WANG
Tech. Officer: GSFC/E LINSTROM
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9560 UNIV OF MARYLAND - COLLEGE PARK 5167
 2000 ASEE-NASA SUMMER FACULTY FELLOWSHIP PROGRAM (AERO-
 NAUTICS AND SPACE RESEARCH)
 05/09/2000 - 09/14/2001 FY01: \$4,000 Total: \$309,000
Prin. Invest.: M GAVRILAS
Tech. Officer: GSFC/M S BURRELL
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9575 UNIV OF MARYLAND - COLLEGE PARK 5168
 THE PHYSICAL & CHEMICAL STRUCTURE OF CIRCUMSTELLAR DISKS &
 ENVELOPES
 05/10/2000 - 04/30/2001 FY01: \$0 Total: \$40,000
Prin. Invest.: L MUNDY
Tech. Officer: GSFC/J BOYCE
CASE Category: 13 - PHYSICS

NAG 5 9620 UNIV OF MARYLAND - COLLEGE PARK 5169
 A GLOBAL NETWORK OF SITES FOR ASSESSING BIOGEOCHEMICAL &
 BIOPHYSICAL CONSEQUENCES OF LAND COVER DIS
 05/18/2000 - 05/14/2002 FY01: \$141,709 Total: \$231,709
Prin. Invest.: R DEFRIES
Tech. Officer: GSFC/J DODGE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9621 UNIV OF MARYLAND - COLLEGE PARK 5170
 A FEDERATION INTEROPERABILITY SUBSTRATE USING MOCHA
 05/19/2000 - 10/14/2001 FY01: \$0 Total: \$40,000
Prin. Invest.: N ROUSSOPOULOS
Tech. Officer: GSFC/C CHEUNG
CASE Category: 11 - ASTRONOMY

NAG 5 9632 UNIV OF MARYLAND - COLLEGE PARK 5171
 INVESTIGATIONS OF THE TROPICAL TROPOPAUSE REGION
 06/07/2000 - 05/31/2002 FY01: \$103,485 Total: \$202,968
Prin. Invest.: A DESSLER
Tech. Officer: GSFC/P DECOLA
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9634 UNIV OF MARYLAND - COLLEGE PARK 5172
 IMPROVED GLOBAL SCALE MODELS FOR SURFACE RADIATION BUDGETS
 05/26/2000 - 04/30/2002 FY01: \$165,000 Total: \$239,000
Prin. Invest.: R T PINKER
Tech. Officer: GSFC/R CURAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9644 UNIV OF MARYLAND - COLLEGE PARK 5173
 SUPPORT FOR THE GOFC BOREAL FOREST WORKSHOP, NASA SIBERIAN
 NETWORK AND EWG BOREAL FOREST PROJECT AC
 06/01/2000 - 05/31/2001 FY01: \$36,130 Total: \$86,713
Prin. Invest.: E S KASISCHKE
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9672 UNIV OF MARYLAND - COLLEGE PARK 5174
 TROPOSPHERIC CONVECTION & STRATOSPHERE-TROPOSPHERE
 EXCHANGE: EFFECTS ON PHOTOCHEMISTRY, AEROSOLS
 06/12/2000 - 05/31/2002 FY01: \$260,031 Total: \$435,801
Prin. Invest.: K E PICKERING
Tech. Officer: GSFC/P DECOLA
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9674 UNIV OF MARYLAND - COLLEGE PARK 5175
 ADVANCING GLACIOLOGICAL APPLICATIONS OF REMOTE SENSING WITH
 EO-1
 06/09/2000 - 06/14/2001 FY01: \$0 Total: \$17,389
Prin. Invest.: M FAHNESTOCK
Tech. Officer: GSFC/R BINDSCHADLER
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 9750 UNIV OF MARYLAND - COLLEGE PARK 5176
 "WIDE-FIELD IMAGING INTERFEROMETRY"
 07/20/2000 - 07/31/2002 FY01: \$22,520 Total: \$37,460
Prin. Invest.: L G MUNDY
Tech. Officer: GSFC/D LEISAWITZ
CASE Category: 11 - ASTRONOMY

NAG 5 9755 UNIV OF MARYLAND - COLLEGE PARK 5177
 NEW ISTEP SOLAR MAX GRANT: LFM IONOSPHERIC MODULE AT SOLAR
 MAXIMUM
 06/28/2000 - 06/30/2001 FY01: \$0 Total: \$50,000
Prin. Invest.: K PAPAPOPOULOS
Tech. Officer: GSFC/S CURTIS
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 9756 UNIV OF MARYLAND - COLLEGE PARK 5178
 PERIODIC, QUASI-PERIODIC, AND BURSTING BEHAVIOR OF NEUTRON
 STAR X-RAY SOURCES
 06/28/2000 - 06/30/2002 FY01: \$0 Total: \$40,020
Prin. Invest.: M MILLER
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9761 UNIV OF MARYLAND - COLLEGE PARK 5179
 RESEARCH IN SUPPORT OF THE COMMUNITY COORDINATED MODELING
 CENTER
 07/06/2000 - 06/30/2001 FY01: \$0 Total: \$84,444
Prin. Invest.: A DEANE, NONE
Tech. Officer: GSFC/M HESSE
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 9793 UNIV OF MARYLAND - COLLEGE PARK 5180
 SUPRATHERMAL THROUGH ENERGETIC PARTICLE DETECTOR (STEP)
 SUBSYSTEM OF THEEPACT EXPERIMENT ON THE WIN
 07/27/2000 - 01/31/2002 FY01: \$0 Total: \$62,000
Prin. Invest.: G M MASON
Tech. Officer: GSFC/T VONROSENGINGE
CASE Category: 11 - ASTRONOMY

NAG 5 9809 UNIV OF MARYLAND - COLLEGE PARK 5181
 STUDY OF LAND-ATMOSPHERE INTERACTIONS USING SATEL-LITE DATA
 ASSIMILATION
 07/18/2000 - 07/31/2002 FY01: \$6,539 Total: \$46,561
Prin. Invest.: R DUBAYAH
Tech. Officer: GSFC/P R HOUSER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9827 UNIV OF MARYLAND - COLLEGE PARK 5182
 VARIABILITY ASSESSMENT OF TMI SNAPSHOTS & QUALITY CONTROLLING
 N-SENSOR DATA.
 08/23/2000 - 08/31/2001 FY01: \$0 Total: \$30,000
Prin. Invest.: B KEDEM
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9890 UNIV OF MARYLAND - COLLEGE PARK 5183
 RAREFIED FLOW AERODYNAMICS FOR STABILITY & CONTROL OF FORMA-
 TION-FLYINGSATELLITES
 08/23/2000 - 08/31/2002 FY01: \$75,000 Total: \$150,000
Prin. Invest.: M J LEWIS
Tech. Officer: GSFC/M CONCHA
CASE Category: 41 - AERONAUTICAL ENGR

NAG 5 9892 UNIV OF MARYLAND - COLLEGE PARK 5184
 NASA-CENTRAL AFRICAN REGIONAL PROGRAM FOR THE ENVIRONMENT (CARPE) ACTIVITY
 08/24/2000 - 08/31/2002 FY01: \$0 Total: \$80,000
Prin. Invest.: C O JUSTICE
Tech. Officer: GSFC/C J TUCKER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9893 UNIV OF MARYLAND - COLLEGE PARK 5185
 CARPE FOREST COVER & INFORMATION SYSTEM - REVISED
 08/29/2000 - 08/31/2001 FY01: \$160,941 Total: \$205,306
Prin. Invest.: C O JUSTICE
Tech. Officer: GSFC/C J TUCKER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9916 UNIV OF MARYLAND - COLLEGE PARK 5186
 REPROCESSING OF GOES NOAA/NESDIS SURFACE RADIATION BUDGET PRODUCTS FOR GCIP
 09/01/2000 - 08/31/2001 FY01: \$0 Total: \$100,000
Prin. Invest.: R T PINKER
Tech. Officer: GSFC/P R HOUSER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9935 UNIV OF MARYLAND - COLLEGE PARK 5187
 X-RAY PERIODOCOTY & THE BROAD IRON K LINE IN IRAS 18325-5926
 09/06/2000 - 09/14/2002 FY01: \$0 Total: \$10,500
Prin. Invest.: A J YOUNG
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 9961 UNIV OF MARYLAND - COLLEGE PARK 5188
 PRECISION RIGID BODY CONTROL OF A SATELLITE CONSTELLATION.
 09/20/2000 - 09/30/2001 FY01: \$0 Total: \$70,000
Prin. Invest.: E M ATKINS
Tech. Officer: GSFC/T STENGLE
CASE Category: 41 - AERONAUTICAL ENGR

NAG 5 10090 UNIV OF MARYLAND - COLLEGE PARK 5189
 COMPARISON OF THE RADIATIVE & PHYSIOLOGICAL EFFECT OF DOUBLED CO2 ON THE GLOBAL CLIMATE & THE
 11/29/2000 - 11/30/2001 FY01: \$82,803 Total: \$82,803
Prin. Invest.: L BOUNOUA
Tech. Officer: GSFC/G J COLLATZ
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10097 UNIV OF MARYLAND - COLLEGE PARK 5190
 INTEGRATING RADAR DATA WITH OTHER SATELLITE IMAGERGY TO ESTIMATE NET PRIMARYPRODUCTIVITY IN
 11/20/2000 - 10/31/2001 FY01: \$141,700 Total: \$141,700
Prin. Invest.: E KASISCHKE
Tech. Officer: GSFC/K PARTINGTON
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10126 UNIV OF MARYLAND - COLLEGE PARK 5191
 RECENT ADVANCES IN REMOTE SENSING OF BIOPHYSICAL VARIABLES
 12/11/2000 - 12/14/2001 FY01: \$5,920 Total: \$5,920
Prin. Invest.: S GOETZ
Tech. Officer: GSFC/D WICKLAND
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10175 UNIV OF MARYLAND - COLLEGE PARK 5192
 MILLIMETER OBSERVATIONS OF MEV-ENERGY ELECTRONS IN CONJUNCTION WITH THE HESSI MISSION
 12/18/2000 - 12/31/2001 FY01: \$68,900 Total: \$68,900
Prin. Invest.: S WHITE
Tech. Officer: GSFC/W WAGNER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10179 UNIV OF MARYLAND - COLLEGE PARK 5193
 MICROWAVE EMISSION DEPTH IN FIRN AND LONG-TERM ACCUMULATION RATES FROM INTERNAL LAYER DISTRIBUTION
 01/10/2001 - 02/28/2002 FY01: \$111,438 Total: \$111,438
Prin. Invest.: M FAHNESTOCK
Tech. Officer: GSFC/W ABDALATI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10180 UNIV OF MARYLAND - COLLEGE PARK 5194
 SOLAR FLARE PHYSICS
 01/11/2001 - 01/14/2002 FY01: \$113,888 Total: \$113,888
Prin. Invest.: E J SCHUMAHL
Tech. Officer: GSFC/B DENNIS
CASE Category: 11 - ASTRONOMY

NAG 5 10235 UNIV OF MARYLAND - COLLEGE PARK 5195
 NASA/UMD: MONITORING THE STATE OF THE RAINFOREST IN THE REPUBLIC DEMOCRATIC OF THE CONGO
 02/05/2001 - 02/14/2002 FY01: \$45,291 Total: \$45,291
Prin. Invest.: C J TUCKER
Tech. Officer: GSFC/C J TUCKER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10298 UNIV OF MARYLAND - COLLEGE PARK 5196
 NONLOCAL KINETIC ANALYSIS OF MAGNETOTAIL THIN CURRENT SHEET STRUCTURE & DYNAMICS DURING SUBSTORMS
 01/24/2001 - 01/31/2002 FY01: \$82,323 Total: \$82,323
Prin. Invest.: S SHARMA
Tech. Officer: GSFC/J SHARBER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10388 UNIV OF MARYLAND - COLLEGE PARK 5197
 IMPROVED SIBERIAN LANDSCAPE MAPPING USING SRTM AND VCL DATA
 02/08/2001 - 02/14/2002 FY01: \$25,000 Total: \$25,000
Prin. Invest.: G SUN
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 10425 UNIV OF MARYLAND - COLLEGE PARK 5198
 ISOTOPIC & GEOCHEMICAL INVESTIGATIONS OF METEORITES
 02/15/2001 - 07/31/2002 FY01: \$75,000 Total: \$75,000
Prin. Invest.: R WALKER
Tech. Officer: GSFC/J M BOYCE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10502 UNIV OF MARYLAND - COLLEGE PARK 5199
 NANOTECHNOLOGY OPTICS FOR INFRARED ASTRONOMY
 02/28/2001 - 02/28/2002 FY01: \$11,775 Total: \$11,775
Prin. Invest.: L G MUNDY
Tech. Officer: GSFC/M M FREUND
CASE Category: 11 - ASTRONOMY

NAG 5 10527 UNIV OF MARYLAND - COLLEGE PARK 5200
 SATELLITE MAPPING OF THE AFRICAN & ASIAN ARID & SEMI-ARID BOUNDARIES
 03/09/2001 - 03/14/2002 FY01: \$75,636 Total: \$75,636
Prin. Invest.: D R TOWNSEND
Tech. Officer: GSFC/C J TUCKER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10540 UNIV OF MARYLAND - COLLEGE PARK 5201
 MISSION OPERATIONS & DATA ANALYSIS FOR THE SOLAR WIND & SUPRA-THERMAL ION COMPOSITION INVESTIGATION
 03/22/2001 - 03/14/2002 FY01: \$175,000 Total: \$175,000
Prin. Invest.: G GLOEKLER
Tech. Officer: GSFC/M ACUNA
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 10563 UNIV OF MARYLAND - COLLEGE PARK 5202
 AUTOMATION OF SAMPEX ORBIT DETERMINATION
 03/19/2001 - 03/14/2002 FY01: \$50,000 Total: \$50,000
Prin. Invest.: B SHAPIRO
Tech. Officer: GSFC/J TOTH
CASE Category: 41 - AERONAUTICAL ENGR

NAG 5 10585 UNIV OF MARYLAND - COLLEGE PARK 5203
 CHAPMAN CONFERENCE ON STORM -SUBSTORMS RELATION SHIPS: TRAVEL GRANT
 03/13/2001 - 01/14/2002 FY01: \$10,000 Total: \$10,000
Prin. Invest.: A S SHARMA
Tech. Officer: GSFC/M GUHATHAKURTA
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10596 UNIV OF MARYLAND - COLLEGE PARK 5204
 NEW ISTEP THEORY GRANT
 03/16/2001 - 03/31/2002 FY01: \$300,000 Total: \$300,000
Prin. Invest.: K PAPAPOULIS
Tech. Officer: GSFC/S CURTIS
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 10611 UNIV OF MARYLAND - COLLEGE PARK 5205
 THE STRUCTURE OF YOUNG STELLAR SYSTEMS: ESTABLISHING THE INITIAL CONDITIONS FOR PLANET FORMATION
 03/17/2001 - 03/31/2002 FY01: \$45,000 Total: \$45,000
Prin. Invest.: L MUNDY
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 10626 UNIV OF MARYLAND - COLLEGE PARK 5206
 ADVANCED MHD MODELS FOR SOLAR WIND TURBULENCE
 03/22/2001 - 03/31/2002 FY01: \$153,474 Total: \$153,474
Prin. Invest.: A DEANE
Tech. Officer: GSFC/D GOLDSTEIN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 10746 UNIV OF MARYLAND - COLLEGE PARK 5207
 SEA ICE VARIABILITY, TRENDS AND CLIMATE CHANGE
 04/17/2001 - 04/30/2002 FY01: \$65,000 Total: \$65,000
Prin. Invest.: K Y VINNIKOV
Tech. Officer: GSFC/D CAVALIERI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10751 UNIV OF MARYLAND - COLLEGE PARK 5208
 WITS: THE WEB INFRARED TOOLSHED.
 04/13/2001 - 04/14/2002 FY01: \$60,000 Total: \$60,000
Prin. Invest.: M G WOLFIRE
Tech. Officer: GSFC/P E HUNTER
CASE Category: 22 - COMPUTER SCIENCE

NAG 5 10810 UNIV OF MARYLAND - COLLEGE PARK 5209
 RADIO & PLASMA WAVES ASSOCIATED WITH CORONAL MASS EJECTIONS
 04/30/2001 - 04/30/2002 FY01: \$20,000 Total: \$20,000
Prin. Invest.: T GOLLA, NONE
Tech. Officer: GSFC/W J WAGNER
CASE Category: 11 - ASTRONOMY

NAG 5 10819 UNIV OF MARYLAND - COLLEGE PARK 5210
 APPLICATIONS IN DEPLOYMENT DYNAMICS AND CONTROL
 04/24/2001 - 09/30/2001 FY01: \$40,000 Total: \$40,000
Prin. Invest.: P KRISHNAPRASAD
Tech. Officer: GSFC/D FOLTA
CASE Category: 41 - AERONAUTICAL ENGR

NAG 5 10858 UNIV OF MARYLAND - COLLEGE PARK 5211
 LAND COVER LAND USE CHANGE PROJECT SCIENTIST SUPPORT
 05/03/2001 - 04/30/2002 FY01: \$197,665 Total: \$197,665
Prin. Invest.: C JUSTICE
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10859 UNIV OF MARYLAND - COLLEGE PARK 5212
 INTER-COMPARISON OF GLOBAL SCALE ECOLOGICAL MODELS
 05/02/2001 - 04/30/2002 FY01: \$67,000 Total: \$67,000
Prin. Invest.: S PRINCE
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10882 UNIV OF MARYLAND - COLLEGE PARK 5213
 PREDICTION OF THE THREE DIMENSIONAL STRUCTURE OF THE SOLAR WIND AT THE EARTH FROM L1 ORBIT
 05/03/2001 - 04/30/2002 FY01: \$98,686 Total: \$98,686
Prin. Invest.: C S GOODRICH
Tech. Officer: GSFC/W J WAGNER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10895 UNIV OF MARYLAND - COLLEGE PARK 5214
 TOWARDS UNDERSTANDING STARBURST GALAXIES AT LOW & HIGH REDSHIFT (FUSE 2000)
 05/14/2001 - 05/31/2002 FY01: \$36,000 Total: \$36,000
Prin. Invest.: T LANZ
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 10898 UNIV OF MARYLAND - COLLEGE PARK 5215
 DEVELOPMENT OF ALGORITHMS FOR MONITORING & MAPPING FIRE BURNED AREAS OF NORTH AMERICA'S BOREAL & TEM
 05/22/2001 - 04/30/2002 FY01: \$88,718 Total: \$88,718
Prin. Invest.: L ZHANQUING
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10929 UNIV OF MARYLAND – COLLEGE PARK 5216
 SOLAR ULTRAVIOLET RADIATION AND THE ORIGIN OF LIFE ON EARTH
 (FUSE 2000)
 05/14/2001 – 05/31/2002 FY01: \$35,000 Total: \$35,000
Prin. Invest.: T LANZ
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 – ASTRONOMY

NAG 5 10958 UNIV OF MARYLAND – COLLEGE PARK 5217
 ANALYSIS OF SOLAR WIND DATA FROM MTOFON SOHO & SWE ON WIND
 05/30/2001 – 05/31/2002 FY01: \$25,703 Total: \$25,703
Prin. Invest.: M COPLAN, NONE
Tech. Officer: GSFC/K OGILVIE
CASE Category: 13 – PHYSICS

NAG 5 10959 UNIV OF MARYLAND – COLLEGE PARK 5218
 IMPROVING HURRICANE FORECASTS THROUGH 3D RETRIEVAL & 4D VAR
 ASSIMILATION IN THE GEOS DATA SYSTEM ASS
 06/04/2001 – 06/14/2002 FY01: \$100,000 Total: \$100,000
Prin. Invest.: D ZHANG, NONE
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 10981 UNIV OF MARYLAND – COLLEGE PARK 5219
 INTRASEASONAL VARIABILITY IN THE INDIAN OCEAN
 05/31/2001 – 06/30/2002 FY01: \$30,000 Total: \$30,000
Prin. Invest.: R MURTUGUDDE
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 33 – OCEANOGRAPHY

NAG 5 11054 UNIV OF MARYLAND – COLLEGE PARK 5220
 STUDIES OF THE SOLAR MODULATION OF GALACTIC AND ANOMALOUS
 COSMIC RAYS IN THE HELIOSPHERE
 06/20/2001 – 06/14/2002 FY01: \$70,000 Total: \$70,000
Prin. Invest.: F B MCDONALD
Tech. Officer: GSFC/W J WAGNER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 11091 UNIV OF MARYLAND – COLLEGE PARK 5221
 THE PROPAGATION OF HIGH-ENERGY COSMIC RAYS IN THE GALAXY
 07/06/2001 – 07/14/2002 FY01: \$50,000 Total: \$50,000
Prin. Invest.: F B MCDONALD
Tech. Officer: GSFC/F C JONES
CASE Category: 11 – ASTRONOMY

NAG 5 11149 UNIV OF MARYLAND – COLLEGE PARK 5222
 SPATIAL PREDICTIVE MODELING AND REMOTE SENSING OF LAND USE
 CHANGE IN THE CHESAPEAKE BAY WATERSHED
 07/26/2001 – 08/14/2003 FY01: \$76,666 Total: \$76,666
Prin. Invest.: N BOCKSTAEL
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 11151 UNIV OF MARYLAND – COLLEGE PARK 5223
 GLOBAL 3D MODEL STUDIES OF POLAR PROCESSES & RADIONUCLIDES
 WITH APPLICATION TO THE GLOBAL
 07/27/2001 – 07/31/2004 FY01: \$77,909 Total: \$77,909
Prin. Invest.: D CONSIDINE
Tech. Officer: GSFC/P DE COLA
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 11161 UNIV OF MARYLAND – COLLEGE PARK 5224
 LAND USE LAND CHANGE AROUND PROTECTED AREAS IN LCL UC SITES:
 SYNTHESIS OF RATES, CONSEQUENCES FOR
 08/08/2001 – 08/14/2004 FY01: \$25,402 Total: \$25,402
Prin. Invest.: R DEFRIES
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 11246 UNIV OF MARYLAND – COLLEGE PARK 5225
 EVALUATION OF ASIAN OUTFLOW USING A STRETCHED GRID CTM
 08/16/2001 – 08/14/2004 FY01: \$50,343 Total: \$50,343
Prin. Invest.: D ALLEN
Tech. Officer: GSFC/P DECOLA
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 11247 UNIV OF MARYLAND – COLLEGE PARK 5226
 TRENDS IN TOTAL AND PROFILE OZONE SORTED BY METEOROLOGICAL
 REGIMES
 08/16/2001 – 08/14/2004 FY01: \$99,999 Total: \$99,999
Prin. Invest.: R HUDSON
Tech. Officer: GSFC/P DECOLA
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 11251 UNIV OF MARYLAND – COLLEGE PARK 5227
 BURNED AREA MAPPING IN SOUTHERN AFRICA: CASE STUDY SYNTHESIS
 AND REGIONAL APPLICATION OF MOD
 08/20/2001 – 08/14/2004 FY01: \$131,572 Total: \$131,572
Prin. Invest.: D ROY
Tech. Officer: GSFC/G GUTMAN
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 11252 UNIV OF MARYLAND – COLLEGE PARK 5228
 BEYOND POTENTIAL VEGETATION: IMPROVING MODEL CARBON PROJEC-
 TIONS OF THE LAND SURFACE USING LUDAR RE
 08/20/2001 – 08/14/2004 FY01: \$78,629 Total: \$78,629
Prin. Invest.: R DUBAYAH, NONE
Tech. Officer: GSFC/D WICKLAND
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 11274 UNIV OF MARYLAND – COLLEGE PARK 5229
 MOORING BASED OPTICAM MEASUREMENTS IN THE TROPICAL ATLANTIC
 OCEAN
 08/22/2001 – 08/31/2002 FY01: \$60,522 Total: \$60,522
Prin. Invest.: A SUBRAMANIAN
Tech. Officer: GSFC/J MARRA
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 11276 UNIV OF MARYLAND – COLLEGE PARK 5230
 REPRESENTATION IN THE GMI MODEL AND EFFECTS ON CHEMISTRY AND
 CLIMATE
 08/22/2001 – 08/31/2004 FY01: \$54,842 Total: \$54,842
Prin. Invest.: K PICKERING
Tech. Officer: GSFC/P DECOLA
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 11291 UNIV OF MARYLAND - COLLEGE PARK 5231
 AN INVESTIGATION OF THE INDO-PACIFIC CLIMATE IN THE NSIPP
 COUPLEDCLIMATE SYSTEM
 08/22/2001 - 08/31/2002 FY01: \$60,000 Total: \$60,000
Prin. Invest.: R WAJSOWICZ
Tech. Officer: GSFC/M RIENECKER
CASE Category: 33 - OCEANOGRAPHY

NAG 5 11306 UNIV OF MARYLAND - COLLEGE PARK 5232
 GLOBAL FOREST COVER ASSESSMENT
 08/31/2001 - 08/31/2002 FY01: \$240,266 Total: \$240,266
Prin. Invest.: J TOWNSHEND
Tech. Officer: GSFC/G GUTMAN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 11313 UNIV OF MARYLAND - COLLEGE PARK 5233
 OPTIMAL PLANNING & CONTROL OF A VIRTUAL RIGID BODY SATELLITE
 CONSTELLATION.
 09/05/2001 - 09/14/2002 FY01: \$82,630 Total: \$82,630
Prin. Invest.: R SANNER
Tech. Officer: GSFC/S STRARIN
CASE Category: 41 - AERONAUTICAL ENGR

NAG 8 1027 UNIV OF MARYLAND - COLLEGE PARK 5234
 RADIO JET STUDY
 01/27/1994 - 09/30/2000 FY01: \$0 Total: \$665,000
Prin. Invest.: A S WILSON
Tech. Officer: MSFC/ME ROSENTHAL
CASE Category: 11 - ASTRONOMY

NAG 8 1440 UNIV OF MARYLAND - COLLEGE PARK 5235
 SEARCH FOR SPIN-MASS INTERACTION WITH A SUPER- CONDUCTING
 DIFFERENTIAL ANGULAR ACCELEROMETER
 02/02/1998 - 12/31/2002 FY01: \$95,000 Total: \$401,000
Prin. Invest.: H J PAIK, M V MOODY
Tech. Officer: MSFC/J W POE
CASE Category: 13 - PHYSICS

NAG 8 1755 UNIV OF MARYLAND - COLLEGE PARK 5236
 STUDIES OF RADIO JETS AND THE NARROW LINE REGIONS OF ACTIVE
 GALAXIES WITH THE ADVANCED X-RAY ASTROPH
 01/16/2001 - 09/30/2001 FY01: \$124,000 Total: \$124,000
Prin. Invest.: A S WILSON
Tech. Officer: MSFC/M SMITH
CASE Category: 11 - ASTRONOMY

NAG 8 1762 UNIV OF MARYLAND - COLLEGE PARK 5237
 THEORY OF PHASE TRANSITIONS AND SIMULATIONS IN USPERFLUID
 HELIUM OF COSMOLOGICAL PHENOMENA
 04/26/2001 - 02/01/2005 FY01: \$84,166 Total: \$84,166
Prin. Invest.: R FERRELL
Tech. Officer: MSFC/D HUBBARD
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 9 1116 UNIV OF MARYLAND - COLLEGE PARK 5238
 RESEARCH IN SPACE AND TELEROBOTICS
 06/04/1999 - 12/31/2000 FY01: \$0 Total: \$500,000
Prin. Invest.: D AKIN
Tech. Officer: JSC/C J CULBERT, JSC/C R PRICE
CASE Category: 49 - ENGINEERING, OTHER

NAG 9 1180 UNIV OF MARYLAND - COLLEGE PARK 5239
 GRANT DEVELOPEMENT/TESTING OF MECH COUNTERSPRESSURE SPACE
 SUIT GLOVE
 12/14/1999 - 12/31/2002 FY01: \$143,000 Total: \$293,000
Prin. Invest.: D L AKIN
Tech. Officer: JSC/B WOOLFORD
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 9 1290 UNIV OF MARYLAND - COLLEGE PARK 5240
 RESEARCH IN SPACE & TELEROBOTICS
 04/04/2001 - 03/31/2002 FY01: \$500,000 Total: \$500,000
Prin. Invest.: D AKIN
Tech. Officer: JSC/C CULBERT
CASE Category: 49 - ENGINEERING, OTHER

NAG 9 1920 UNIV OF MARYLAND - COLLEGE PARK 5241
 COMPUTER SIMULATIONS OF THE VARIABLE SPECIFIC IMPULSE MAGNE-
 TOPLASMA ROCKET
 06/23/2000 - 12/31/2001 FY01: \$50,000 Total: \$130,000
Prin. Invest.: R SAGDEEV
Tech. Officer: JSC/F R CHANG-DIAZ
CASE Category: 13 - PHYSICS

NAG13 98001 UNIV OF MARYLAND - COLLEGE PARK 5242
 ENHANCING EARTH SYSTEM SCIENCES USING COMMERCIAL TERRES-
 TRIAL REMOTE SENSING SYSTEMS
 11/03/1997 - 02/24/2002 FY01: \$200,135 Total: \$797,015
Prin. Invest.: S GOWARD
Tech. Officer: SSC/J JENNER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG13 99011 UNIV OF MARYLAND - COLLEGE PARK 5243
 MID ATLANTIC RESAC CONSORTIUM SAME
 03/01/1999 - 03/01/2002 FY01: \$0 Total: \$1,730,000
Prin. Invest.: S D PRINCE
Tech. Officer: SSC/C HILL
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAS 5 00192 UNIV OF MARYLAND - COLLEGE PARK 5244
 R & D TO SUPPORT GSFC'S SIMBIOS PROJECT
 12/18/2000 - 11/30/2001 FY01: \$260,821 Total: \$260,821
Prin. Invest.: A SUBRAMANIAM
Tech. Officer: GSFC/C R MCCLAIN
CASE Category: 33 - OCEANOGRAPHY

NAS 5 31365 UNIV OF MARYLAND - COLLEGE PARK 5245
 EOS EXECUTION PHASE
 01/02/1992 - 12/14/2001 FY01: \$721,000 Total: \$4,464,390
Prin. Invest.: C JUSTICE
Tech. Officer: GSFC/H OSEROFF
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAS 5 31732 UNIV OF MARYLAND - COLLEGE PARK 5246
 R & D STUDIES IN BIOSPHERE-ATMOSPHERE INTERACTIONS
 11/22/1991 - 12/31/1999 FY01: \$0 Total: \$753,400
Prin. Invest.: C JUSTICE
Tech. Officer: GSFC/P SELLERS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAS 5 96060 UNIV OF MARYLAND - COLLEGE PARK 5247
 DEFINITION PHASE ACTIVITIES ASSOCIATED WITH THE MODIS
 INSTRUMENT OF THE EOS
 07/25/1996 - 12/14/2001 FY01: \$433,000 Total: \$1,891,000
Prin. Invest.: J TOWNSHEND
Tech. Officer: GSFC/D TOLL
CASE Category: 11 - ASTRONOMY

NAS 5 96062 UNIV OF MARYLAND - COLLEGE PARK 5248
 DEFINITION PHASE ACTIVITIES ASSOCIATED WITH MODIS INSTRUMENT OF
 THE EOS
 07/02/1996 - 12/14/2001 FY01: \$403,000 Total: \$2,096,562
Prin. Invest.: E VERMONTE
Tech. Officer: GSFC/D TOLL
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAS 5 97160 UNIV OF MARYLAND - COLLEGE PARK 5249
 VEGETATION CANOPY LIDAR MISSION FOR ESSP
 05/15/1997 - 05/31/2002 FY01: \$6,099,428 Total: \$34,068,680
Prin. Invest.: R DUBAYAH
Tech. Officer: GSFC/J ROBINSON
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAS 5 99211 UNIV OF MARYLAND - COLLEGE PARK 5250
 AWARD - SAMPEX MISSION SUPPORT
 08/27/1999 - 08/26/2002 FY01: \$90,000 Total: \$270,000
Prin. Invest.: W FOURNEY
Tech. Officer: GSFC/T STENGLE
CASE Category: 41 - AERONAUTICAL ENGR

NASW 00004 UNIV OF MARYLAND - COLLEGE PARK 5251
 MESSENGER DISCOVERY PROJECTS (PI'S MANAGE PROJECT ORBIT &
 EXPLOR PLANET MERCURY PHASE B
 03/14/2000 - 02/29/2004 FY01: \$13,461,929 Total: \$14,244,398
Prin. Invest.: M F A'HEARN
Tech. Officer: JPL/D JARRETT
CASE Category: 11 - ASTRONOMY

NASW 00028 UNIV OF MARYLAND - COLLEGE PARK 5252
 JOINT US/RUSSIAN RESEARCH SPACE SCIENCES (JURRISS) PROGRAM
 SUPPORT SERVICE/OPTION DATE 8/5/2002
 12/06/2000 - 08/05/2002 FY01: \$219,800 Total: \$219,800
Prin. Invest.: L MUKHIN, R SAGDEEV
Tech. Officer: HQ/J BOYCE
CASE Category: 75 - POLITICAL SCIENCE

NCC 2 944 UNIV OF MARYLAND - COLLEGE PARK 5253
 CENTER FOR ROTORCRAFT EDUCATION & RESEARCH
 02/23/1996 - 12/31/2000 FY01: \$0 Total: \$3,797,988
Prin. Invest.: I CHOPRA
Tech. Officer: ARC/Y H YU, ARC/J M DAVIS
CASE Category: 41 - AERONAUTICAL ENGR

NCC 2 1129 UNIV OF MARYLAND - COLLEGE PARK 5254
 WAVERIDER-BASED REENTRY CONFIGURATIONS FOR THE SHARP FLIGHT
 EXPERIMENT
 07/13/1999 - 12/14/2001 FY01: \$0 Total: \$66,608
Prin. Invest.: M J LEWIS
Tech. Officer: ARC/P KOLODZIEJ, ARC/D J RASKY
CASE Category: 41 - AERONAUTICAL ENGR

NCC 2 1146 UNIV OF MARYLAND - COLLEGE PARK 5255
 EVALUATION OF METHODOLOGY FOR TESTING AND ANALYSIS OF
 ADVANCED ROTOR SYSTEMS
 12/01/1999 - 03/31/2002 FY01: \$100,000 Total: \$296,025
Prin. Invest.: F HARRIS, I CHOPRA, G PRICE
Tech. Officer: ARC/W WARMBRODT
CASE Category: 41 - AERONAUTICAL ENGR

NCC 2 5348 UNIV OF MARYLAND - COLLEGE PARK 5256
 THE EVOLUTION OF DUST IN THE MULTIPHASE INTERSTELLAR MEDIUM
 09/01/1999 - 09/14/2001 FY01: \$0 Total: \$33,199
Prin. Invest.: M G WOLFIRE, NONE
Tech. Officer: ARC/D J HOLLENBACH, ARC/R E YOUNG
CASE Category: 11 - ASTRONOMY

NCC 3 528 UNIV OF MARYLAND - COLLEGE PARK 5257
 CENTER FOR SATELLITE AND HYBRID COMMUNICATION NETWORKS
 01/30/1997 - 11/30/2001 FY01: \$1,000,000 Total: \$3,430,000
Prin. Invest.: J S BARAS
Tech. Officer: GRC/J W BAGWELL, GRC/K B BHASIN
CASE Category: 45 - ELECTRICAL ENGR

NCC 3 686 UNIV OF MARYLAND - COLLEGE PARK 5258
 STUDIES ON THE BEHAVIOR OF HIGHLY PRE-HEATED AIR FLOW LAMES IN
 MICROGRAVITY
 03/11/1999 - 01/11/2003 FY01: \$95,000 Total: \$273,500
Prin. Invest.: A K GUPTA
Tech. Officer: GRC/D STOCKER
CASE Category: 49 - ENGINEERING, OTHER

NCC 3 783 UNIV OF MARYLAND - COLLEGE PARK 5259
 POOL BOILING HEAT TRANSFER MECHANISMS IN MICROGRAVITY AND
 PARTIAL GRAVITY
 03/13/2000 - 11/30/2003 FY01: \$120,000 Total: \$195,000
Prin. Invest.: J KIM
Tech. Officer: GRC/J B MCQUILLEN
CASE Category: 49 - ENGINEERING, OTHER

NCC 3 804 UNIV OF MARYLAND - COLLEGE PARK 5260
 FLAMMABILITY DIAGRAMS OF COMBUSTIBLE MATERIALS IN
 MICROGRAVITY
 05/25/2000 - 04/30/2004 FY01: \$74,124 Total: \$129,092
Prin. Invest.: D L, NONE
Tech. Officer: GRC/H D ROSS
CASE Category: 46 - MECHANICAL ENGR

NCC 3 919 UNIV OF MARYLAND - COLLEGE PARK 5261
 TRANSITION FROM IGNITION TO FLAME GROWTH UNDER EXTENSIVE
 RADIATION IN D-D
 09/27/2001 - 09/30/2005 FY01: \$69,300 Total: \$69,300
Prin. Invest.: T KASHIWAGI
Tech. Officer: GRC/S OLSON
CASE Category: 49 - ENGINEERING, OTHER

NCC 5 55 UNIV OF MARYLAND - COLLEGE PARK 5262
 JOINT CENTER FOR EARTH SYSTEM SCIENCE
 09/22/1993 - 09/30/1999 FY01: \$0 Total: \$5,402,993
Prin. Invest.: R D HUDSON
Tech. Officer: GSFC/F EINAUDI, GSFC/C E COTE
CASE Category: 11 - ASTRONOMY

NCC 5 128 UNIV OF MARYLAND - COLLEGE PARK 5263
 A STUDY OF THE DEVELOPMENT OF REMOTE SENSING ALGORITHMS
 WITH EMPHASIS ON USING THE MODIS INSTR.
 01/18/1996 - 02/14/2000 FY01: -\$250 Total: \$960,474
Prin. Invest.: A J FLAG
Tech. Officer: GSFC/S SAMADI, GSFC/E MASUOKA
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 5 150 UNIV OF MARYLAND - COLLEGE PARK 5264
 GRAND CHALLENGE APPLICATIONS
 09/04/1996 - 06/30/2000 FY01: \$0 Total: \$962,000
Prin. Invest.: P L YSTER
Tech. Officer: GSFC/J R FISCHER
CASE Category: 29 - MATH/COMPUTER SCI, OTHER

NCC 5 180 UNIV OF MARYLAND - COLLEGE PARK 5265
 THIS GRANT PROVIDES POST-DOC SUPPORT, FELLOWSHIPS, LABORA-
 TORY FOR HIGH ENERGY ASTROPHYSICS
 02/06/1997 - 01/31/2002 FY01: \$1,587,049 Total: \$8,219,607
Prin. Invest.: J D TRASCO
Tech. Officer: GSFC/A HARDING
CASE Category: 11 - ASTRONOMY

NCC 5 190 UNIV OF MARYLAND - COLLEGE PARK 5266
 SUPPORT OF THE EARTH SYSTEM SCIENCE INTERDISCIPLIN
 04/04/1997 - 03/31/2002 FY01: \$0 Total: \$600,000
Prin. Invest.: D TOWNSHEND
Tech. Officer: GSFC/R C HARRISS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 5 238 UNIV OF MARYLAND - COLLEGE PARK 5267
 COOPERATIVE RESEARCH AGREEMENT FOR SPACE LASER RES MD, A.
 JAMES CLARK SCHOOL OF ENGINEERING & NASA/G
 09/18/1997 - 04/30/2002 FY01: \$135,000 Total: \$2,514,055
Prin. Invest.: D CHRISTOU
Tech. Officer: GSFC/R AFZAL
CASE Category: 49 - ENGINEERING, OTHER

NCC 5 243 UNIV OF MARYLAND - COLLEGE PARK 5268
 RANGER TELEROBOTIC FLIGHT EXPERIMENT
 11/03/1997 - 09/30/2002 FY01: \$0 Total: \$9,611,377
Prin. Invest.: D AKIN
Tech. Officer: GSFC/J PARRISH
CASE Category: 11 - ASTRONOMY

NCC 5 300 UNIV OF MARYLAND - COLLEGE PARK 5269
 A LANDCOVER EARTH SCIENCE INFORMATION PARTNERSHIP
 04/21/1998 - 02/28/2002 FY01: \$1,451,662 Total: \$5,092,162
Prin. Invest.: J TOWNSENDE, NONE
Tech. Officer: GSFC/M MAIDEN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 353 UNIV OF MARYLAND - COLLEGE PARK 5270
 FUNDS ARE PROVIDED FOR THE GRANT PROPOSAL BY THE U NIVERSITY
 RESEARCH FOUNDATION FOR ENVIRONET TO
 08/04/1998 - 12/31/2001 FY01: -\$1,444 Total: \$298,556
Prin. Invest.: C F MARTIN
Tech. Officer: GSFC/H PARK
CASE Category: 22 - COMPUTER SCIENCE

NCC 5 372 UNIV OF MARYLAND - COLLEGE PARK 5271
 COOPERATIVE RESEARCH IN SPACE SCIENCE WITH THE UNI VERSITY OF
 MARYLAND
 12/22/1998 - 12/31/2001 FY01: \$476,931 Total: \$1,728,063
Prin. Invest.: J D TRASCO
Tech. Officer: GSFC/T KOSTIUK
CASE Category: 11 - ASTRONOMY

NCC 5 374 UNIV OF MARYLAND - COLLEGE PARK 5272
 EARTH SCIENCE INTER-DISCIPLINARY CENTER
 01/20/1999 - 08/31/2002 FY01: \$828,535 Total: \$2,981,322
Prin. Invest.: M BROWN
Tech. Officer: GSFC/R HARTLE, GSFC/C COTE
CASE Category: 11 - ASTRONOMY

NCC 5 408 UNIV OF MARYLAND - COLLEGE PARK 5273
 PROTOTYPE IMPLEMENTATION OF A RESEARCH ENVIRONMENT FOR
 ADVANCED LANDSAT MONITORING (REALM)
 05/17/1999 - 04/30/2002 FY01: \$100,045 Total: \$473,680
Prin. Invest.: S GOWARD
Tech. Officer: GSFC/D L WILLIAMS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 5 417 UNIV OF MARYLAND - COLLEGE PARK 5274
 RANGER TELEROBOTICS FLIGHT EXPERIMENT
 08/25/1999 - 08/30/2001 FY01: \$0 Total: \$3,645,192
Prin. Invest.: D L AKIN
Tech. Officer: GSFC/D LAVERY
CASE Category: 11 - ASTRONOMY

NCC 5 449 UNIV OF MARYLAND - COLLEGE PARK 5275
 A STUDY OF THE DEVELOPMENT OF REMOTE SENSING ALGORITHMS
 02/08/2000 - 12/31/2001 FY01: \$232,012 Total: \$515,894
Prin. Invest.: D ROY
Tech. Officer: GSFC/E J MASUOKA
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 462 UNIV OF MARYLAND - COLLEGE PARK 5276
 E0-1 VALIDATION AND EVALUATION FOR AGRICULTURAL MONITORING
 02/29/2000 - 12/31/2001 FY01: \$155,026 Total: \$242,283
Prin. Invest.: S LIANG
Tech. Officer: GSFC/S G UNGAR
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 5 464 UNIV OF MARYLAND - COLLEGE PARK 5277
 EVALUATION OF SOFTWARE ENGINEERING METHODOLOGIES
 02/29/2000 - 02/14/2002 FY01: \$227,539 Total: \$633,539
Prin. Invest.: D R BASILI
Tech. Officer: GSFC/D E JAMISON
CASE Category: 42 - ASTRONAUTICAL ENGR

NCC 5 497 UNIV OF MARYLAND - COLLEGE PARK 5278
 SUMMER INST ON ATMOSPHERIC AND HYDROSPHERIC SCIENCES
 04/19/2000 - 09/30/2001 FY01: \$0 Total: \$92,807
Prin. Invest.: F BAER
Tech. Officer: GSFC/R HARTLE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 5 552 UNIV OF MARYLAND - COLLEGE PARK 5279
 SUMMER INST ON ATMOSPHERIC AND HYDROSPHERIC SCIENCES
 04/24/2001 - 04/30/2002 FY01: \$114,929 Total: \$114,929
Prin. Invest.: F BAER
Tech. Officer: GSFC/R HARTLE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NGT 1 52158 UNIV OF MARYLAND - COLLEGE PARK 5280
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
 05/23/1997 - 06/30/2000 FY01: -\$18,543 Total: \$47,457
Prin. Invest.: M LEWIS
Tech. Officer: LARC/C E COCKRELL
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 2 52214 UNIV OF MARYLAND - COLLEGE PARK 5281
 SHAPE MEMORY ALLOY ACTURATION FOR ACTIVE TUNING OF
 COMPOSITE SHAFTS
 07/17/1996 - 08/31/2000 FY01: -\$5,907 Total: \$68,093
Prin. Invest.: I CHOPRA
Tech. Officer: ARC/K Q NGUYEN
CASE Category: 41 - AERONAUTICAL ENGR

NGT 2 52273 UNIV OF MARYLAND - COLLEGE PARK 5282
 CENTER FOR ROTORCRAFT EDUCATION & RESEARCH
 01/09/2001 - 04/30/2002 FY01: \$916,829 Total: \$916,829
Prin. Invest.: CHOPRA
Tech. Officer: ARC/Y YU, ARC/A
CASE Category: 41 - AERONAUTICAL ENGR

NGT 3 52367 UNIV OF MARYLAND - COLLEGE PARK 5283
 SYNTHESIS OF MOLECULARLY DISPERSED CERAMIC POLYMER NANO-
 COMPOSITES
 06/14/2000 - 06/30/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: D C WILSON JR
Tech. Officer: GRC/F MONTEGANI
CASE Category: 49 - ENGINEERING, OTHER

NGT 5 50 UNIV OF MARYLAND - COLLEGE PARK 5284
 DEVELOPMENT OF A RATCHETLESS WRENCH FOR EXTRAVEHIC
 06/23/1997 - 06/30/2000 FY01: -\$7,638 Total: \$58,362
Prin. Invest.: D L AKIN
Tech. Officer: GSFC/M S BURRELL
CASE Category: 46 - MECHANICAL ENGR

NGT 5 60 UNIV OF MARYLAND - COLLEGE PARK 5285
 MEASUREMENT OF FIBER STRAIN IN TERMINATED FIBER CO NNECTOR
 ASSEMBLIES USING IN-FIBER BRAGG GRATING A
 10/24/1997 - 08/14/2000 FY01: -\$1,088 Total: \$64,912
Prin. Invest.: T MEAD
Tech. Officer: GSFC/G ASRAR
CASE Category: 42 - ASTRONAUTICAL ENGR

NGT 5 62 UNIV OF MARYLAND - COLLEGE PARK 5286
 1998 ASEE-NASA SUMMER FACULTY FELLOWSHIP PROGRAM (AERO-
 NAUTICS AND SPACE RESEARCH)
 04/22/1998 - 09/30/1999 FY01: -\$2,510 Total: \$356,741
Prin. Invest.: M GAVRILAS
Tech. Officer: GSFC/G A SOFFEN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 99 UNIV OF MARYLAND - COLLEGE PARK 5287
 ESTIMATION OF TROPICAL FOREST ABOVEGROUND USING LARGE FOOT-
 PRINT LIDAR
 08/20/1999 - 08/31/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: R DUBAYAH, J DRAKE
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 100 UNIV OF MARYLAND - COLLEGE PARK 5288
 GLOBAL CLIMATE CHANGE AND CHOLERA: MODELING OF CHO LERA
 OCCURRENCE IN SELECTED COASTAL AREAS USING S
 08/23/1999 - 08/31/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: E RUSSEK-COHEN
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 107 UNIV OF MARYLAND - COLLEGE PARK 5289
 FEASIBILITY OF ATMOSPHERIC PENETRATION FOR SATELLI TE FORMA-
 TION FLYING EXPERIMENTS/STUDENT: JOS SCHU
 06/07/2000 - 06/30/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: D PINES
Tech. Officer: GSFC/G SOFFEN
CASE Category: 41 - AERONAUTICAL ENGR

NGT 5 116 UNIV OF MARYLAND - COLLEGE PARK 5290
 INVESTIGATION OF LIBRATION ORBITS IN THE EARTH-MOO N
 SYSTEM(STUDENT): RAQUEL JARABEK
 06/04/2001 - 06/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: D SHAPIRO
Tech. Officer: GSFC/M S BURRELL
CASE Category: 42 - ASTRONAUTICAL ENGR

NGT 5 30142 UNIV OF MARYLAND - COLLEGE PARK 5291
 THE EFFECT OF WARM TROPICAL ATLANTIC SST ON EARLY SEASON
 CARIBBEAN RAIN-FALL
 08/27/1998 - 08/31/2001 FY01: \$0 Total: \$44,000
Prin. Invest.: A VERNEKAR, TAYLOR
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30196 UNIV OF MARYLAND - COLLEGE PARK 5292
 TORNADOES: COHERENT FLOW STRUCTURES IN ATMOSPHERIC TURBU-
 LENCE
 08/18/1999 - 08/31/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: F BAER/NAWRI
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30377 UNIV OF MARYLAND - COLLEGE PARK 5293
 ANALYSIS OF MOPITT DATA FOR INVESTIGATION OF BOREA L FOREST
 FIREMISSIONS/EDWARD J. HYER
 08/13/2001 - 08/31/2004 FY01: \$21,989 Total: \$21,989
Prin. Invest.: E KASISCHKE
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50083 UNIV OF MARYLAND - COLLEGE PARK 5294
 CHEMISTRY IN COMETS HALE-BOPP AND HYAKUTAKE
 09/05/1997 - 06/30/2000 FY01: -\$9,225 Total: \$56,775
Prin. Invest.: A HEARN
Tech. Officer: HQ/A NURRIDIN
CASE Category: 41 - AERONAUTICAL ENGR

NGT 5 50217 UNIV OF MARYLAND - COLLEGE PARK 5295
 CONVECTIVE EFFECTS ON TROPOSPHERIC OZONE CHEMISTRY STUDIED
 WITH ACOUPLED CLOUD/CHEMISTRY MOD
 09/15/1998 - 08/31/2001 FY01: \$0 Total: \$53,077
Prin. Invest.: K PICKERING
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 5328 UNIV OF MARYLAND - EASTERN SHORE 5296
 RESEARCH PARTICIPATION IN AIRBORNE OCEANOGRAPHIC LIDAR ON
 LONG RANGE MISSIONS
 03/19/2001 - 03/31/2002 FY01: \$27,623 Total: \$27,623
Prin. Invest.: D R LEVIN
Tech. Officer: GSFC/W B KRABILL
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 8501 UNIV OF MARYLAND - EASTERN SHORE 5297
 UNIV OF MARYLAND EASTERN SHORE PRE-COLLEGE TO COLLEGE ENGI-
 NEERING BRIDGE PROGRAM
 05/12/1999 - 07/30/2000 FY01: \$0 Total: \$50,000
Prin. Invest.: M WILSON
Tech. Officer: WFF/D MENCHAN
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 9243 UNIV OF MARYLAND - EASTERN SHORE 5298
 PRE-COLLEGE ACTIVITIES FOR ENHANCING MINORITY PARTICIPATION IN
 ENGINEERING.
 03/13/2000 - 03/14/2002 FY01: \$97,217 Total: \$194,773
Prin. Invest.: G SINGH
Tech. Officer: GSFC/M STOUTSENBERGER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10122 UNIV OF MARYLAND - EASTERN SHORE 5299
 MATHEMATICS, ENGINEERING, SCIENCE ENRICHMENT PRE- COLLEGE
 PROGRAM
 11/28/2000 - 11/30/2001 FY01: \$50,000 Total: \$50,000
Prin. Invest.: T DUBE
Tech. Officer: GSFC/D MENCHAN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 437 UNIV OF MARYLAND - EASTERN SHORE 5300
 DESIGN & DEVELOPMENT OF TETHERED BLIMP-BORNE MULTI -SPECTRAL
 IMAGING DEVICE
 10/07/1999 - 01/14/2001 FY01: \$0 Total: \$32,500
Prin. Invest.: E BOYD
Tech. Officer: GSFC/R WESCOTT
CASE Category: 46 - MECHANICAL ENGR

NAG 5 5339 UNIV OF MARYLAND BALTIMORE 5301
 ASSIST GSFC CODE 972 DURING CAMEX-4 PROJECT A
 07/12/2001 - 09/30/2001 FY01: \$9,000 Total: \$9,000
Prin. Invest.: W MCMILLAN
Tech. Officer: WFF/F SCHMIDLIN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 8 1573 UNIV OF MARYLAND BALTIMORE 5302
 IONS AND PROTEIN ASSOCIATION: AW AND PROTEIN CRYSTALS
 01/19/1999 - 11/30/2002 FY01: \$118,750 Total: \$362,750
Prin. Invest.: K COLLINS
Tech. Officer: MSFC/B GUYNE
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NCC 5 544 UNIV OF MARYLAND BALTIMORE 5303
 IDENTIFICATION FOR RISK FACTORS FOR CHILDHOOD ASTH MA.
 03/22/2001 - 03/31/2002 FY01: \$439,608 Total: \$439,608
Prin. Invest.: D BLAISDELL
Tech. Officer: GSFC/J P GALLOWAY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 1 2022 UNIV OF MARYLAND BALTIMORE COUNTY 5304
 A CLIMATOLOGY OF TROPOSPHERIC CO OVER THE CENTRAL AND SOUTH-
 ASTERN UNITED STATES AND THE SOUTHWESTERN
 03/12/1998 - 03/11/2002 FY01: \$15,000 Total: \$234,120
Prin. Invest.: W W MCMILLAN, G MORRIS, L STROW
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 6460 UNIV OF MARYLAND BALTIMORE COUNTY 5305
 VALIDATION OF MOPITT COLUMN & PROFILE CO FROM SPAC EBORNE,
 AIRBORNE, & GROUND-BASED INTERFEROMETERS
 10/14/1997 - 09/30/2002 FY01: \$60,588 Total: \$317,893
Prin. Invest.: W MCMILLAN
Tech. Officer: GSFC/D O STARR
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 6675 UNIV OF MARYLAND BALTIMORE COUNTY 5306
 VALIDATION OF CLOUD OPTICAL DEPTHS RETRIEVED FROM EOS/MODIS
 DATA
 12/01/1997 - 09/30/2002 FY01: \$84,198 Total: \$309,020
Prin. Invest.: A MARSHAK
Tech. Officer: GSFC/D O STARR
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 6681 UNIV OF MARYLAND BALTIMORE COUNTY 5307
 ASSIMILATION OF WIND OBSERVATIONS FROM THE HIGH RE SOLUTION
 DOPPLERIMAGER
 12/05/1997 - 11/30/2001 FY01: \$0 Total: \$430,241
Prin. Invest.: D TANGBORN
Tech. Officer: GSFC/C JACKMAN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 6996 UNIV OF MARYLAND BALTIMORE COUNTY 5308
 A STUDY OF UNCERTAINTIES FOR MODIS CLOUD RETRIEVAL S OF
 OPTICAL THICKNESS AND EFFECTIVE RADIUS
 02/06/1998 - 12/14/2001 FY01: \$0 Total: \$202,354
Prin. Invest.: D PLATNICK
Tech. Officer: GSFC/D STARR
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7385 UNIV OF MARYLAND BALTIMORE COUNTY 5309
 X-RAY SPECTROSCOPY OF ACTIVE GALACTIC NUCLEI: (LT SA)
 05/15/1998 - 06/30/2002 FY01: \$216,715 Total: \$570,610
Prin. Invest.: T J TURNER
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 7563 UNIV OF MARYLAND BALTIMORE COUNTY 5310
 MODELING OF SHORTWAVE RADIATION FIELDS USING ATMOSPHERIC
 RADIATION MEASUREMENTS (ARM) AND LANDSAT D
 06/29/1998 - 06/30/2001 FY01: \$4,000 Total: \$275,720
Prin. Invest.: A MARSHAK
Tech. Officer: GSFC/W WISCOMBE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7774 UNIV OF MARYLAND BALTIMORE COUNTY 5311
 CLOUDLESS SCENE IDENTIFICATION FOR AEROSOL RETRIEVAL FROM
 TOMS MEASUREMENTS
 10/28/1998 - 10/31/2001 FY01: \$0 Total: \$128,000
Prin. Invest.: O TORRES
Tech. Officer: GSFC/M I MISCHENKO
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7909 UNIV OF MARYLAND BALTIMORE COUNTY 5312
 TRMM PRECIPITATION RADAR: DEVELOPMENT OF A RAIN RETRIEVAL
 ALGORITHM USING GROUND VALIDATION DATA
 12/08/1998 - 12/14/2002 FY01: \$140,965 Total: \$278,035
Prin. Invest.: E AMITAI
Tech. Officer: GSFC/O W THIELE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 8231 UNIV OF MARYLAND BALTIMORE COUNTY 5313
 USE OF DATA FROM TRMM FIELD CAMPAIGNS IN IMPROVED INITIALIZA-
 TION AND VALIDATION OF HIGH RESOLUTION
 03/03/1999 - 03/14/2002 FY01: \$0 Total: \$156,420
Prin. Invest.: B S FERRIER
Tech. Officer: GSFC/O W THIELE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 8379 UNIV OF MARYLAND BALTIMORE COUNTY 5314
 VARIATIONAL ASSIMILATION OF TRMM-DERIVED PRECIPITATION
 OBSERVATIONS FOR THE IMPROVEMENT OF NUMERICAL
 04/14/1999 - 04/14/2001 FY01: \$0 Total: \$50,393
Prin. Invest.: W S OLSON
Tech. Officer: GSFC/R W LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9054 UNIV OF MARYLAND BALTIMORE COUNTY 5315
 INNOVATIVE ANALYSIS OF GRAVITY MAPPING MISSION DATA
 02/10/2000 - 12/31/2001 FY01: \$12,500 Total: \$50,000
Prin. Invest.: E C PAVLIS
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 9346 UNIV OF MARYLAND BALTIMORE COUNTY 5316
 UNDERSTANDING TON S180? (ADP - 99)
 03/31/2000 - 06/30/2001 FY01: \$0 Total: \$20,000
Prin. Invest.: T J TURNER
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9588 UNIV OF MARYLAND BALTIMORE COUNTY 5317
 LABORATORY QUANTITATIVE SPECTROSCOPY OF MOLECULES OF
 ATMOSPHERIC RELEVANCE
 05/11/2000 - 12/31/2001 FY01: \$77,197 Total: \$128,630
Prin. Invest.: J M SIROTA
Tech. Officer: GSFC/M KURYLO
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9645 UNIV OF MARYLAND BALTIMORE COUNTY 5318
 A COMPARATIVE STUDY OF FOREST MAPPING METHODS AND ALGO-
 RITHMS: TOWARDS OPTIMAL SOLUTIONS FOR OPERATIO
 06/12/2000 - 06/30/2002 FY01: \$60,204 Total: \$124,699
Prin. Invest.: Y SOHN, NONE
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9698 UNIV OF MARYLAND BALTIMORE COUNTY 5319
 IMPROVEMENT OF CONVECTIVE/STRATIFORM SEPARATION & LATENT
 HEATING PROFILE ESTIMATION FROM TRMM
 07/21/2000 - 11/30/2001 FY01: \$107,963 Total: \$220,963
Prin. Invest.: W S OLSON
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9699 UNIV OF MARYLAND BALTIMORE COUNTY 5320
 ORGANIZATION, STRUCTURE, AND EVOLUTION OF TROPICAL CONVEC-
 TIONS IN SOUTH CHINA SEA MONSOON AND THEIR
 07/27/2000 - 05/31/2002 FY01: \$80,000 Total: \$126,667
Prin. Invest.: J WANG
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9707 UNIV OF MARYLAND BALTIMORE COUNTY 5321
 US INDIA COLLABORATIVE RESEARCH ON MONSOON PREDICTABILITY
 06/16/2000 - 08/31/2002 FY01: \$23,856 Total: \$47,712
Prin. Invest.: A MEHTA, NONE
Tech. Officer: GSFC/J DODGE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9718 UNIV OF MARYLAND BALTIMORE COUNTY 5322
 INVESTIGATIONS OF MARITIME & CONTINENTAL TROPICAL CONVECTIVE
 SYSTEMS USING DATA FROM TRMM FIELD E
 06/19/2000 - 06/30/2002 FY01: \$89,766 Total: \$145,766
Prin. Invest.: J B HALVERSON
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9816 UNIV OF MARYLAND BALTIMORE COUNTY 5323
 CLIMATOLOGY AND EVOLUTION OF CONVECTIVE SYSTEMS COMBINING
 SURFACE RADAR & GEOSTATIONARY INFRARED SA
 07/21/2000 - 07/31/2002 FY01: \$75,000 Total: \$118,750
Prin. Invest.: T M RICKENBACH
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9954 UNIV OF MARYLAND BALTIMORE COUNTY 5324
 MYERHOFF SCHOLARSHIP PROGRAM
 09/08/2000 - 09/14/2001 FY01: \$0 Total: \$200,000
Prin. Invest.: E B BAKER
Tech. Officer: GSFC/D MENCHAN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9995 UNIV OF MARYLAND BALTIMORE COUNTY 5325
 A SPECTRAL STUDY OF A NEW CLASS OF RADIO QUASARS
 09/20/2000 - 03/31/2002 FY01: \$0 Total: \$21,878
Prin. Invest.: E S PERLMAN
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9996 UNIV OF MARYLAND BALTIMORE COUNTY 5326
 VARIABILITY AND HARD-X-RAY SPECTRA OF BL LACERTAE OBJECTS
 09/21/2000 - 06/30/2001 FY01: \$0 Total: \$2,790
Prin. Invest.: E PERLMAN
Tech. Officer: GSFC/J SWANK
CASE Category: 11 - ASTRONOMY

NAG 5 9997 UNIV OF MARYLAND BALTIMORE COUNTY 5327
 THE PHYSICS OF EXTRAGALACTIC RADIO/OPTICAL/X-RAY JETS
 09/20/2000 - 03/14/2002 FY01: \$55,000 Total: \$101,603
Prin. Invest.: E S PERLMAN
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 10024 UNIV OF MARYLAND BALTIMORE COUNTY 5328
 DIAGNOSTICS OF THE ISM IN INTERMEDIATE REDSHIFT GALAXIES USING
 BACKGROUND BL LACS
 09/27/2000 - 09/30/2001 FY01: \$0 Total: \$5,080
Prin. Invest.: E S PERLMAN
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10086 UNIV OF MARYLAND BALTIMORE COUNTY 5329
 THE X-RAY TEMPERATURE FUNCTION AND STRUCTURE OF CLUSTERS AT
 Z=0.6-1
 11/07/2000 - 11/14/2001 FY01: \$6,213 Total: \$6,213
Prin. Invest.: E S PERLMAN
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10109 UNIV OF MARYLAND BALTIMORE COUNTY 5330
 HIGH RESOLUTION X-RAY PROPERTIES OF BL LACS: AN XMM SURVEY
 01/26/2001 - 01/31/2002 FY01: \$45,045 Total: \$45,045
Prin. Invest.: E S PERLMAN
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10206 UNIV OF MARYLAND BALTIMORE COUNTY 5331
 QUANTITATIVE INFRARED SPECTROSCOPY FOR STUDIES OF BROWN
 DWARFS & EXTRASOLAR GIANT PLANETS
 12/28/2000 - 12/31/2001 FY01: \$30,000 Total: \$30,000
Prin. Invest.: D STEVERT
Tech. Officer: GSFC/G STRINGFELLOW
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10347 UNIV OF MARYLAND BALTIMORE COUNTY 5332
 VALIDATION OF CLOUD MODEL MICROPHYSICS & RAIN RATE ESTIMATION
 WITH HIGH-RESOLUTION MICROWAVE OBSERVA
 02/01/2001 - 09/30/2002 FY01: \$128,752 Total: \$128,752
Prin. Invest.: G M SKOFFRONICK-JACK
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 10687 UNIV OF MARYLAND BALTIMORE COUNTY 5333
 CALIBRATION & NAVIGATION OF RAW INSAT IMAGERY & APPLICATION FOR
 CLIMATE VARIABILITY ANALYSES
 04/04/2001 - 04/14/2002 FY01: \$59,150 Total: \$59,150
Prin. Invest.: G I MOLNAR
Tech. Officer: GSFC/A J NEGRİ
CASE Category: 31 - ATMOSPHERICSCIENCE

NAG 5 10876 UNIV OF MARYLAND BALTIMORE COUNTY 5334
 STUDY OF SOLAR AND SPECTRAL GRADIANCE VARIATIONS BASED ON
 SOHO/VIRGO AND MDI
 05/15/2001 - 11/30/2001 FY01: \$111,389 Total: \$111,389
Prin. Invest.: J M PAP
Tech. Officer: GSFC/J GURMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 10969 UNIV OF MARYLAND BALTIMORE COUNTY 5335
 DERIVING MICROPHYSICAL CLOUD PROFILES USING AIR- BORNE ACTIVE
 & WIDEBAND PASSIVE MICROWAVE OBSERVA
 06/06/2001 - 06/14/2002 FY01: \$28,596 Total: \$28,596
Prin. Invest.: G SKOFFRONICK-JACK
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 11020 UNIV OF MARYLAND BALTIMORE COUNTY 5336
 SCATTERING & ABSORPTION PROPERTIES OF NONSPHERICAL /INHOMO-
 GENEUS AEROSOLS& ICE CRYSTALS:
 06/22/2001 - 06/30/2002 FY01: \$30,000 Total: \$30,000
Prin. Invest.: P YANG
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 11092 UNIV OF MARYLAND BALTIMORE COUNTY 5337
 UNDERSTANDING ARK 564 (ADP 2000)
 07/09/2001 - 09/30/2002 FY01: \$47,536 Total: \$47,536
Prin. Invest.: T J TURNER
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 11115 UNIV OF MARYLAND BALTIMORE COUNTY 5338
 STUDIES OF THE UPPER ATMOSPHERIC INNER CORE REGION OF HURRI-
 CANES USING THENASA ER-2 DROPWINDSONDE
 07/26/2001 - 07/31/2002 FY01: \$152,789 Total: \$152,789
Prin. Invest.: J B HALVERSON
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 11150 UNIV OF MARYLAND BALTIMORE COUNTY 5339
 MARS WATER CONSTRAINTS FROM VOLCANIC LANDFORM TOPO GRAPHY
 07/26/2001 - 07/31/2002 FY01: \$40,000 Total: \$40,000
Prin. Invest.: S SAKIMOTO
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 11156 UNIV OF MARYLAND BALTIMORE COUNTY 5340
 BBAERI AIRS OCEAN VALIDATION EXPERIMENT: BOAVE" AQUA-0056-0064
 08/01/2001 - 08/31/2004 FY01: \$80,439 Total: \$80,439
Prin. Invest.: W MCMILLAN
Tech. Officer: GSFC/D STARR
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 11174 UNIV OF MARYLAND BALTIMORE COUNTY 5341
 CONSTRAINTS ON WATER ON MARS FROM EXPLOSIVE VOLCAN ISM LAND-
 FORMTOPOGRAPHY
 09/05/2001 - 09/30/2001 FY01: \$13,000 Total: \$13,000
Prin. Invest.: S SAKIMOTO
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 11206 UNIV OF MARYLAND BALTIMORE COUNTY 5342
 MODELING OF SHORTWAVE RADIATION FIELDS USING ATMOSPHERIC
 RADIATION MEASUREMENTS (ARM) & LANDSAT DATA
 08/14/2001 – 06/30/2002 FY01: \$114,205 Total: \$114,205
Prin. Invest.: A MARSHAK
Tech. Officer: GSFC/W WISCOMBE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 11230 UNIV OF MARYLAND BALTIMORE COUNTY 5343
 OBSERVATIONALLY-BASED PROCESS EVALUATION OF MODEL TRANS-
 PORT: IMPROVING ATMOSPHERIC MODELS AND THE G
 08/16/2001 – 08/14/2004 FY01: \$115,145 Total: \$115,145
Prin. Invest.: S STRAHAN
Tech. Officer: GSFC/P DECOLA
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 11269 UNIV OF MARYLAND BALTIMORE COUNTY 5344
 MICROPHYSICAL PROPERTIES OF CRYSTALLINE PARTICLES
 DERIVED FROM AIRBORNE LIDAR MEASUREMENTS
 08/22/2001 – 08/31/2004 FY01: \$67,295 Total: \$67,295
Prin. Invest.: J REICHARDT
Tech. Officer: GSFC/P DECOLA
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 11284 UNIV OF MARYLAND BALTIMORE COUNTY 5345
 STATISTICAL INVESTIGATIONS OF SUBGRID SCALE VARIABILITY IN THE
 UT/LS
 08/17/2001 – 08/31/2004 FY01: \$73,791 Total: \$73,791
Prin. Invest.: L SPARLING
Tech. Officer: GSFC/P DECOLA
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 11326 UNIV OF MARYLAND BALTIMORE COUNTY 5346
 VARIATIONS IN THE SOLAR RADIATION ENERGY OUTPUT ON TIME SCALES
 OF YEARS AND THE SOLAR CYCLE
 09/05/2001 – 05/14/2003 FY01: \$20,378 Total: \$20,378
Prin. Invest.: J PAP
Tech. Officer: GSFC/C JACKSON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 9 1190 UNIV OF MARYLAND BALTIMORE COUNTY 5347
 EFFECTS OF EXPOSURE TO HEAVY PARTICLES
 01/20/2000 – 01/19/2003 FY01: \$178,062 Total: \$335,749
Prin. Invest.: B M RABIN
Tech. Officer: JSC/F A CUCINOTTA
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NAS 1 99107 UNIV OF MARYLAND BALTIMORE COUNTY 5348
 PICASSO-CENA SCIENCE TEAM SUPPORT FOR AEROSOL RETRIEVAL
 STUDIES
 11/02/1999 – 11/01/2002 FY01: \$124,187 Total: \$129,187
Prin. Invest.: R M HOFF
Tech. Officer: LARC/G G GIBSON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 00173 UNIV OF MARYLAND BALTIMORE COUNTY 5349
 PARTICIPATION IN THE OZONE MONITORING INSTRUMENT SCIENCE TEAM.
 06/06/2000 – 10/31/2004 FY01: \$118,644 Total: \$188,644
Prin. Invest.: O TORRES
Tech. Officer: GSFC/J C RIVERA
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 00203 UNIV OF MARYLAND BALTIMORE COUNTY 5350
 R & D TO SUPPORT GSFC'S SIMBIOS PROJECT
 12/15/2000 – 11/30/2001 FY01: \$125,014 Total: \$125,014
Prin. Invest.: M WANG
Tech. Officer: GSFC/C R MCCLAIN
CASE Category: 33 – OCEANOGRAPHY

NAS 5 01110 UNIV OF MARYLAND BALTIMORE COUNTY 5351
 OZONE MONITORING INSTRUMENT (OMI) SCIENCE TEAM
 04/18/2001 – 10/31/2004 FY01: \$127,932 Total: \$127,932
Prin. Invest.: A KRUEGER
Tech. Officer: GSFC/J C RIVERA
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 31378 UNIV OF MARYLAND BALTIMORE COUNTY 5352
 EOS EXECUTION PHASE
 12/16/1991 – 12/14/2001 FY01: \$480,000 Total: \$3,088,000
Prin. Invest.: L L STROW
Tech. Officer: GSFC/E R KREINS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAS 5 99141 UNIV OF MARYLAND BALTIMORE COUNTY 5353
 COMPACT HYPERSPECTRAL MAPPER FOR ENVIRONMENTAL APPLICA-
 TIONS (CHYMER).
 02/08/1999 – 12/15/2001 FY01: -\$56,344 Total: \$469,836
Prin. Invest.: S JANZ
Tech. Officer: GSFC/J HARTLEY
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 1252 UNIV OF MARYLAND BALTIMORE COUNTY 5354
 DISTRIBUTED DATA MINING FOR LARGE NASA DATABASES
 04/10/2001 – 02/28/2002 FY01: \$156,000 Total: \$156,000
Prin. Invest.: H KARGUPTA
Tech. Officer: ARC/J SKILES, ARC/J COUGHLAN
CASE Category: 22 – COMPUTER SCIENCE

NCC 5 339 UNIV OF MARYLAND BALTIMORE COUNTY 5355
 JOINT CENTER FOR EARTH SYSTEM TECHNOLOGY NEW AWARD
 07/01/1998 – 06/30/2002 FY01: \$2,555,684 Total: \$11,033,288
Prin. Invest.: D CHRISTOU, R HOFF
Tech. Officer: GSFC/R AFZAL, GSFC/C E COTE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 5 361 UNIV OF MARYLAND BALTIMORE COUNTY 5356
 DESKTOP STEREOSCOPIC VISUALIZATION AND ANALYSIS OF MULTI-DI-
 MENSIONAL DATA SETS
 09/08/1998 – 09/14/2001 FY01: \$0 Total: \$129,876
Prin. Invest.: D S EBERT
Tech. Officer: GSFC/A ROBERTS
CASE Category: 22 – COMPUTER SCIENCE

NCC 5 367 UNIV OF MARYLAND BALTIMORE COUNTY 5357
 LHEA/UMBC COOPERATIVE AGREEMENT (LUCA)
 10/20/1998 – 12/31/2001 FY01: \$612,863 Total: \$1,028,605
Prin. Invest.: M J HENRIKSEN
Tech. Officer: GSFC/N E WHITE
CASE Category: 11 – ASTRONOMY

NCC 5 494 UNIV OF MARYLAND BALTIMORE COUNTY 5358
 ESTABLISHMENT OF GODDARD EARTH SCIENCE & TECHN CTR ESTAB-
 LISHING GODDARD EARTH SCIENCE AND TECHNOLOGY
 05/11/2000 - 05/10/2005 FY01: \$6,960,835 Total: \$9,787,006
Prin. Invest.: R CURRAN
Tech. Officer: GSFC/R HARTLE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

MASSACHUSETTS

NAG 1 2057 BOSTON COLLEGE 5359
 ENHANCEMENT OF SOLID STATE LASER OUTPUT VIA INTERI ONIC ENERGY
 TRANSFER
 04/24/1998 - 01/31/2001 FY01: \$0 Total: \$242,971
Prin. Invest.: B DIBARTOIO, B WALSH
Tech. Officer: LARC/N P BARNES, LARC/J C BARNES
CASE Category: 13 - PHYSICS

NAG 1 01019 BOSTON COLLEGE 5360
 INVESTIGATIONS OF FUNDAMENTAL PROCESSES IN LASER SOLIDS WITH
 REMOTE SENSING APPLICATIONS
 01/25/2001 - 11/30/2003 FY01: \$142,260 Total: \$142,260
Prin. Invest.: B DIBARTOLO, B WALSH
Tech. Officer: LARC/N P BARNES, LARC/J C BARNES
CASE Category: 13 - PHYSICS

NAG 1 01067 BOSTON COLLEGE 5361
 NATO ADVANCED STUDY INST ON SPECTROSCOPY WITH SPATIALLY
 CONFINED STRUCTURES
 04/18/2001 - 08/17/2001 FY01: \$15,000 Total: \$15,000
Prin. Invest.: B DIBARTOLOL
Tech. Officer: LARC/J C BARNES
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 10824 BOSTON COLLEGE 5362
 STAR FORMATION IN MSX INFRARED DARK CLOUDS (LISA 2000)
 05/01/2001 - 05/14/2002 FY01: \$87,882 Total: \$87,882
Prin. Invest.: S J CAREY
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 10833 BOSTON COLLEGE 5363
 THE MAGNETIC STRUCTURE OF CMES: A COMPARISON OF HALO CMES
 WITH MAGNETIC CLOUDS AT 1 AU
 04/27/2001 - 04/30/2002 FY01: \$64,760 Total: \$64,760
Prin. Invest.: D F WEBB
Tech. Officer: GSFC/W J WAGNER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 2 1432 BOSTON UNIV 5364
 INTEGRATION OF ATMOSPHERIC, LABORATORY, & SATELITE DATA TO
 ESTIMATE BIOSPHERIC SOURCES OF OXYGENATE
 08/15/2000 - 08/14/2002 FY01: \$42,000 Total: \$80,000
Prin. Invest.: R B MYNENI
Tech. Officer: ARC/C S POTTER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 3 1844 BOSTON UNIV 5365
 DETERMINATION OF INTERFACIAL RHEOLOGICAL PROPERTIE S THROUGH
 MICROGRAVITY OSCILLATIONS OF BUBBLES DR
 05/03/1996 - 08/31/2000 FY01: \$0 Total: \$272,000
Prin. Invest.: A NADIM
Tech. Officer: GRC/B SINGH
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 3 2121 BOSTON UNIV 5366
 RHEOLOGY OF FOAM NEAR THE ORDER-DISORDER TRANSITIO N
 02/17/1998 - 08/31/2000 FY01: \$0 Total: \$100,000
Prin. Invest.: R G HOLT, J G MCDANIEL
Tech. Officer: GRC/R B ROGERS
CASE Category: 13 - PHYSICS

NAG 3 2143 BOSTON UNIV 5367
 SONOLUMINESCENCE IN SPACE: THE CRITICAL ROLE OF B OUYANCY IN
 STABILITY AND EMISSION MECHANISMS
 04/10/1998 - 01/08/2002 FY01: \$162,500 Total: \$517,500
Prin. Invest.: R G HOLT, R A ROY
Tech. Officer: GRC/N R HALL
CASE Category: 13 - PHYSICS

NAG 3 2392 BOSTON UNIV 5368
 RHEOLOGY OF FOAM NEAR THE ORDER-DISORDER PHASE TRA NSITION
 04/18/2000 - 11/30/2003 FY01: \$80,000 Total: \$130,000
Prin. Invest.: D HOLT
Tech. Officer: GRC/R B ROGERS
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 690 BOSTON UNIV 5369
 A SOUNDING ROCKET PROGRAM IN EXTREME AND FAR UV INTERFER-
 OMETRY
 04/29/1992 - 01/31/2001 FY01: \$0 Total: \$2,352,044
Prin. Invest.: S CHAKRABARTI
Tech. Officer: GSFC/R H PLESS
CASE Category: 13 - PHYSICS

NAG 5 3384 BOSTON UNIV 5370
 TOWARD A REFINED UNDERSTANDING OF THE HIGH-ENERGY
 GAMMA-RAY UNIVERSE
 08/28/1996 - 08/31/2001 FY01: \$0 Total: \$365,000
Prin. Invest.: J R MATTOX
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 3439 BOSTON UNIV 5371
 MONITORING CHANGE IN TEMPERATE CONIFEROUS FOREST E COSYS-
 TEMS
 10/07/1996 - 12/31/2001 FY01: \$50,854 Total: \$915,007
Prin. Invest.: C WOODCOCK
Tech. Officer: GSFC/D L WILLIAMS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 3748 BOSTON UNIV 5372
 THE MAGNETOSPHERIC MAPPING MISSION
 03/10/1997 - 03/14/2001 FY01: -\$31 Total: \$199,969
Prin. Invest.: D E SPENCE
Tech. Officer: GSFC/R HOWARD
CASE Category: 13 - PHYSICS

NAG 5 3839 **BOSTON UNIV** **5373**
 FREQUENCY STRATIFICATION OF THE NONTHERMAL EMISSIONS
 02/24/1997 - 02/28/2001 FY01: \$1,000 Total: \$287,000
Prin. Invest.: A P MARSCHER
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 3999 **BOSTON UNIV** **5374**
 A SILICON ANODE DETECTOR WITH INTEGRATED ELECTRONICS
 03/06/1997 - 02/28/2001 FY01: \$0 Total: \$491,700
Prin. Invest.: D CHAKRABARTI
Tech. Officer: GSFC/H HASAN
CASE Category: 11 - ASTRONOMY

NAG 5 4246 **BOSTON UNIV** **5375**
 USE OF ENERGETIC NEUTRAL ATOMS AS DIAGNOSTICS OF M PROCESSES
 03/26/1997 - 04/30/2001 FY01: \$0 Total: \$262,266
Prin. Invest.: D MENDILLO
Tech. Officer: GSFC/J GREBOWSKY
CASE Category: 13 - PHYSICS

NAG 5 4273 **BOSTON UNIV** **5376**
 SEPARATING SPATIAL AND TEMPORAL VARIATIONS OF THE NEARLY COLO-
 CATED SATELLITES
 04/04/1997 - 04/30/2001 FY01: \$0 Total: \$222,632
Prin. Invest.: D E SPENCE
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 - PHYSICS

NAG 5 4707 **BOSTON UNIV** **5377**
 USE OF NASA'S GLOBAL POSITIONING SYSTEM (GPS) MONITORING STUDIES OF
 IONOSPHERIC STRUCTURE AND VARIABILITY
 06/11/1997 - 05/31/2001 FY01: \$0 Total: \$200,000
Prin. Invest.: D MENDILLO
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 - PHYSICS

NAG 5 5137 **BOSTON UNIV** **5378**
 SPECTRE: STUDENT-RUN PROGRAM FOR EXOATMOSPHERIC
 COLLECTING TECHNOLOGIES & ROCKET EXPERIMENTS
 04/14/1997 - 12/31/2000 FY01: -\$2 Total: \$43,193
Prin. Invest.: S CHAKRABARTI
Tech. Officer: GSFC/W JOHNSON
CASE Category: 13 - PHYSICS

NAG 5 5251 **BOSTON UNIV** **5379**
 A SUBORBITAL RESEARCH PROGRAM IN ULTRAVIOLET HIGH RESOLUTION
 AND IMAGING SPECTROSCOPY PI CHAKRABARTI
 02/04/2000 - 02/03/2003 FY01: \$351,490 Total: \$652,929
Prin. Invest.: S CHAKRABARTI
Tech. Officer: WFF/W B JOHNSON
CASE Category: 13 - PHYSICS

NAG 5 6214 **BOSTON UNIV** **5380**
 MODELING AND FORECASTING EFFECTS OF LAND-USE CHANGE
 SOCIOECONOMIC DRIVERS
 08/18/1997 - 06/30/2001 FY01: \$0 Total: \$312,042
Prin. Invest.: D K KAUFMANN
Tech. Officer: GSFC/G C GUTMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6658 **BOSTON UNIV** **5381**
 ULYSSES DATA ANALYSIS: MAGNETIC TOPOLOGY OF HELIO SPHERIC
 STRUCTURES
 11/20/1997 - 06/30/2001 FY01: \$0 Total: \$203,772
Prin. Invest.: N CROOKER
Tech. Officer: GSFC/J LING
CASE Category: 11 - ASTRONOMY

NAG 5 6716 **BOSTON UNIV** **5382**
 THERMAL AND HYDROLOGIC SIGNATURE OF SOIL CONTROLS ON EVAPORATION:
 A COMBINED ENERGY AND WATER
 12/10/1997 - 06/30/2000 FY01: -\$695 Total: \$148,119
Prin. Invest.: G SALVUCCI
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6755 **BOSTON UNIV** **5383**
 ANALYSIS AND MODELING OF COMET HALE-BOPP'S MULTIPLE TAILS
 12/16/1997 - 02/28/2001 FY01: \$0 Total: \$96,000
Prin. Invest.: M MENDILLO
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 - ASTRONOMY

NAG 5 6926 **BOSTON UNIV** **5384**
 THE CLUSTER II RAPID RESPONSE EFFORT AT BOSTON UNIVERSITY-PRELAUNCH
 ACTIVITY
 02/05/1998 - 10/31/2000 FY01: -\$8 Total: \$202,780
Prin. Invest.: T FRITZ
Tech. Officer: GSFC/L CHRISTENSEN
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 5 7049 **BOSTON UNIV** **5385**
 WIND DATA ANALYSIS: GLOBAL HELIOSPHERIC STRUCTURES
 02/26/1998 - 06/30/2002 FY01: \$10,000 Total: \$127,700
Prin. Invest.: N U CROOKER
Tech. Officer: GSFC/J LING
CASE Category: 11 - ASTRONOMY

NAG 5 7217 **BOSTON UNIV** **5386**
 GEOMETRIC OPTICAL MODELING OF DIRECTIONAL THERMAL RADIANCE
 FOR IMPROVEMENT OF LAND SURFACE TEMPERATURE
 04/17/1998 - 12/31/2001 FY01: \$34,086 Total: \$300,236
Prin. Invest.: X LI
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7218 **BOSTON UNIV** **5387**
 MACHINE LEARNING TO IMPROVE LAND COVER CLASSIFICATIONS FROM
 MULTISENSOR AND MULTITEMPORAL DATA
 04/09/1998 - 04/14/2001 FY01: \$0 Total: \$84,433
Prin. Invest.: M FRIEDL
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7331 **BOSTON UNIV** **5388**
 XTE PROPOSAL MULTI-WAVEBAND MONITORING OF THE RADIO GALAXY
 3C 120
 04/24/1998 - 04/30/2000 FY01: -\$46 Total: \$10,454
Prin. Invest.: A MARSCHER
Tech. Officer: GSFC/J SWANK
CASE Category: 11 - ASTRONOMY

NAG 5 7452 **BOSTON UNIV** **5389**
 SIMULATIONS AND THEORY OF THE FARLEY-BUNEMAN INSTABILITY IN THE E-REGION IONOSPHERE
 07/10/1998 - 08/31/2001 FY01: \$0 Total: \$157,357
Prin. Invest.: M OPPENHEIM
Tech. Officer: GSFC/M MELLOTT
CASE Category: 13 - PHYSICS

NAG 5 7472 **BOSTON UNIV** **5390**
 ADVANCED DATA SETS FROM FUSION OF AVHRR AND SEAWIFS DATA
 06/16/1998 - 06/30/2001 FY01: \$0 Total: \$70,775
Prin. Invest.: R MYNENI
Tech. Officer: GSFC/C TUCKER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7677 **BOSTON UNIV** **5391**
 STUDIES BY THE CAMMICE INVESTIGATION TEAM DURING THE EXTENDED MISSION OF GGSPOL
 09/18/1998 - 09/30/2001 FY01: \$360,000 Total: \$1,335,607
Prin. Invest.: T FRITZ
Tech. Officer: GSFC/R HOFFMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 7706 **BOSTON UNIV** **5392**
 STUDIES OF MAGNETOSPHERIC ENERGETIC PARTICLES IN THE SOLAR MAXIMUM AREA
 10/01/1998 - 12/31/2001 FY01: \$75,000 Total: \$355,000
Prin. Invest.: H E SPENCER
Tech. Officer: GSFC/R HOFFMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 7861 **BOSTON UNIV** **5393**
 DYNAMICS OF JOVIAN UPPER ATMOSPHERES FROM STELLAR OCCULTATIONS
 01/07/1999 - 03/31/2000 FY01: -\$7,633 Total: \$23,096
Prin. Invest.: D A YOUNG
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 - ASTRONOMY

NAG 5 8012 **BOSTON UNIV** **5394**
 INVESTIGATIONS INTO THE ORIGIN OF THE MOON'S ATMOSPHERE: OBSERVATIONS AND MODELING
 01/13/1999 - 12/31/2000 FY01: \$0 Total: \$132,420
Prin. Invest.: M MENDILLO
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 - ASTRONOMY

NAG 5 8039 **BOSTON UNIV** **5395**
 MULTIPOINT ENERGETIC NEUTRAL ATOM STUDIES WITH POLAR, GEOTAIL, AND TIROS
 01/11/1999 - 01/14/2001 FY01: \$0 Total: \$59,748
Prin. Invest.: H E SPENCE
Tech. Officer: GSFC/M H ACUNA
CASE Category: 13 - PHYSICS

NAG 5 8135 **BOSTON UNIV** **5396**
 "SIGNATURES OF MAGNETOPAUSE RECONNECTION".
 01/29/1999 - 01/31/2002 FY01: \$241,909 Total: \$607,075
Prin. Invest.: G L SISCOE
Tech. Officer: GSFC/J GREBOWSKY
CASE Category: 13 - PHYSICS

NAG 5 8147 **BOSTON UNIV** **5397**
 AN AUDIO-MULTIMEDIA WORKSTATION: SCIENCE DATA ANALYSIS USING SONIFICATION AND SIMULTANEOUS
 02/04/1999 - 12/31/2000 FY01: \$0 Total: \$176,485
Prin. Invest.: J D SULLIVAN
Tech. Officer: GSFC/J BREDEKAMP
CASE Category: 11 - ASTRONOMY

NAG 5 8584 **BOSTON UNIV** **5398**
 INVESTIGATION OF AERODYNAMIC AND RADIOMETRIC LAND SURFACE TEMPERATURES
 06/21/1999 - 06/30/2002 FY01: \$22,835 Total: \$65,906
Prin. Invest.: M A FRIEDL
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8659 **BOSTON UNIV** **5399**
 COLLECTION OF LAI & FPAR DATA OVER THE TERRA CORE SITES
 08/31/1999 - 08/31/2000 FY01: \$0 Total: \$25,000
Prin. Invest.: R MYNENI
Tech. Officer: GSFC/J PRIVETTE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8666 **BOSTON UNIV** **5400**
 DIRECT ESTIMATION OF THE FORM AND SCALE-DEPENDENCE OF SOIL MOISTURE CONTROL ON LAND SURFACE WATER
 07/01/1999 - 12/31/2000 FY01: \$0 Total: \$50,000
Prin. Invest.: G D SALVUCCI
Tech. Officer: GSFC/P R HOUSER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8756 **BOSTON UNIV** **5401**
 GRAVITATIONAL LENSING: RECENT PROGRESS AND FUTURE GOALS CONFERENCE
 08/25/1999 - 06/30/2001 FY01: \$0 Total: \$13,996
Prin. Invest.: T BRAINERD
Tech. Officer: GSFC/L KALUZIENSKI
CASE Category: 11 - ASTRONOMY

NAG 5 9110 **BOSTON UNIV** **5402**
 SUBSTORM EVOLUTION IN THE NEAR-EARTH PLASMA SHEET
 02/23/2000 - 02/28/2002 FY01: \$94,598 Total: \$182,498
Prin. Invest.: G ERICKSON
Tech. Officer: GSFC/J SHARBER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9161 **BOSTON UNIV** **5403**
 RXTE OBSERVATIONS OF SELECTED BLAZARS - ADP - 99
 03/08/2000 - 03/14/2002 FY01: \$0 Total: \$23,580
Prin. Invest.: A MARSCHER
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9191 **BOSTON UNIV** **5404**
 SUPPORT FOR SCIENTIFIC EVALUATION OF RAPID ON ORBIT PERFORMANCE
 03/08/2000 - 03/14/2001 FY01: \$0 Total: \$72,855
Prin. Invest.: T FRITZ
Tech. Officer: GSFC/L CHRISTENSEN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 9444 **BOSTON UNIV** **5405**
 SIMULATIONS & THEORY OF ELECTRON PHASE-SPACE HOLES OBSERVED
 IN THE AURORAL IONOSPHERE
 04/13/2000 - 12/31/2001 FY01: \$0 Total: \$37,000
Prin. Invest.: M OPPENHEIM
Tech. Officer: GSFC/M MELLOTT
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9547 **BOSTON UNIV** **5406**
 MULTI-DECADAL PATHFINDER DATA SETS OF GLOBAL LAND BIOPHYSICAL
 VARIABLES FROM AVHRR & MODIS & THEIR
 05/16/2000 - 05/31/2002 FY01: \$73,570 Total: \$150,000
Prin. Invest.: R MYNENI
Tech. Officer: GSFC/DODGE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9557 **BOSTON UNIV** **5407**
 MULTIPOINT ENERGETIC NEUTRAL ATOM IMAGING WITH POLAR GEOTAIL
 AND TIROS
 05/16/2000 - 05/14/2002 FY01: \$0 Total: \$58,999
Prin. Invest.: H SPENCE
Tech. Officer: GSFC/R HOFFMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 9562 **BOSTON UNIV** **5408**
 NEW ISTP SOLAR MAX: CUSP ENERGETIC PARTICLES
 05/09/2000 - 05/14/2001 FY01: \$0 Total: \$30,000
Prin. Invest.: J CHEN
Tech. Officer: GSFC/R HOFFMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 9582 **BOSTON UNIV** **5409**
 A LARGE FORMAT, MINIATURIZED, PHOTON COUNTING IMAGING SYSTEM
 WITH MICRO-CHANNEL PLATE PORE-LIMITED
 05/09/2000 - 05/14/2002 FY01: \$0 Total: \$100,000
Prin. Invest.: S CHAKRABARTI
Tech. Officer: GSFC/P CRANE
CASE Category: 13 - PHYSICS

NAG 5 10108 **BOSTON UNIV** **5410**
 THE CLUSTER RAPID ON-ORBIT OPERATIONS AND DATA VERIFICATION
 12/28/2000 - 12/31/2001 FY01: \$502,000 Total: \$502,000
Prin. Invest.: T FRITZ
Tech. Officer: GSFC/M GOLDSTEIN
CASE Category: 13 - PHYSICS

NAG 5 10156 **BOSTON UNIV** **5411**
 RETRIEVING LAI AND FPAR FROM MERIS DATA WITH ADVANCED ALGO-
 RITHMS
 12/18/2000 - 12/31/2001 FY01: \$89,641 Total: \$89,641
Prin. Invest.: R B MYNENI
Tech. Officer: GSFC/D WICKLAND
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10286 **BOSTON UNIV** **5412**
 USE OF ENERGETIC NEUTRAL ATOMS AS DIAGNOSTICS OF MAGNETO-
 SPHERIC PROCESSES AT JUPITER
 01/23/2001 - 01/31/2002 FY01: \$35,000 Total: \$35,000
Prin. Invest.: M MENDILLO
Tech. Officer: GSFC/J SHARBER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10419 **BOSTON UNIV** **5413**
 CONSTELLATION PATHFINDER TECHNOLOGY DEVELOPMENT: SYSTEMS
 INTEGRATION AND MANUFACTURABILITY.
 03/13/2001 - 03/14/2002 FY01: \$50,000 Total: \$50,000
Prin. Invest.: D SPENCE
Tech. Officer: GSFC/P BUCHANAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 10496 **BOSTON UNIV** **5414**
 HIGH DEFINITION IMAGES OF MERCURY'S SURFACE AND EXTENDED
 ATMOSPHERE
 02/28/2001 - 02/28/2002 FY01: \$55,000 Total: \$55,000
Prin. Invest.: J BAUMGARDNER
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 - ASTRONOMY

NAG 5 10801 **BOSTON UNIV** **5415**
 CONCEPT STUDY FOR THE "A SMALL EXPLORER MISSION FOR SPEC-
 TROSCOPY & PHOTOMETRY OF IGM'S DIFFUSE
 04/30/2001 - 04/30/2002 FY01: \$450,000 Total: \$450,000
Prin. Invest.: P CHAKRABARTI
Tech. Officer: GSFC/J R BYRD
CASE Category: 11 - ASTRONOMY

NAG 5 10808 **BOSTON UNIV** **5416**
 INFRARED STUDIES OF 13CO CLUMPS IN THE GRS (LISA 2 000)
 04/25/2001 - 04/30/2002 FY01: \$100,000 Total: \$100,000
Prin. Invest.: J M JACKSON
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 10856 **BOSTON UNIV** **5417**
 HELIOSPHERIC CURRENT SHEET STRUCTURE
 05/01/2001 - 04/30/2002 FY01: \$71,950 Total: \$71,950
Prin. Invest.: N U CROOKER
Tech. Officer: GSFC/W J WAGNER
CASE Category: 13 - PHYSICS

NAG 5 10881 **BOSTON UNIV** **5418**
 HELIOSPHERIC CONSEQUENCES OF CORONAL MASS EJECTION
 05/14/2001 - 05/31/2002 FY01: \$71,950 Total: \$71,950
Prin. Invest.: N U CROOKER
Tech. Officer: GSFC/J GURMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 11077 **BOSTON UNIV** **5419**
 IONOSPHERE VARIABILITY AND STORMS ON MARS
 08/06/2001 - 08/14/2003 FY01: \$50,000 Total: \$50,000
Prin. Invest.: M MENDILLO
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 11165 **BOSTON UNIV** **5420**
 MODELING STUDIES OF TITAN'S THERMOSPHERE, IONOSPHERE, AND
 AURORA
 08/06/2001 - 08/14/2004 FY01: \$40,198 Total: \$40,198
Prin. Invest.: M MENDILLO
Tech. Officer: GSFC/D J BOGAN
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 5 11263 **BOSTON UNIV** **5421**
 LAND SURFACE ALBEDO FROM MERIS REFLECTIONS USING MODIS
 DIRECTIONALFACTORS
 08/29/2001 - 12/31/2003 FY01: \$22,607 Total: \$22,607
Prin. Invest.: C SCHAAF
Tech. Officer: GSFC/D WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 11338 **BOSTON UNIV** **5422**
 THE EFFECTS OF AGRICULTURAL EXPANSION ON REGIONAL HYDROLOGY
 IN SETURKEY
 09/07/2001 - 09/15/2004 FY01: \$191,205 Total: \$191,205
Prin. Invest.: G SALVUCCI
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 8 1522 **BOSTON UNIV** **5423**
 DIRECT USE OF SATELLITE REMOTE SENSING IN THE ESTIMATION OF
 HYDROLOGIC TRANSPORTS.
 05/22/1998 - 09/30/2001 FY01: \$0 Total: \$134,869
Prin. Invest.: G D SALVUCCI
Tech. Officer: MSFC/J ARNOLD
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAS 5 31369 **BOSTON UNIV** **5424**
 MODERATE RESOLUTION IMAGING SPECTROMETER INVESTIGATION -
 LAND COVER CHANGES
 12/30/1991 - 12/14/2001 FY01: \$645,000 Total: \$5,389,303
Prin. Invest.: W STRAHLER
Tech. Officer: GSFC/H OSEROFF
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAS 5 96061 **BOSTON UNIV** **5425**
 MODIS
 09/27/1996 - 12/14/2001 FY01: \$384,000 Total: \$1,985,000
Prin. Invest.: R B MYNENI
Tech. Officer: GSFC/D TOLL
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 2 1233 **BOSTON UNIV** **5426**
 A BENCHMARK DATASET OF MULTIDIMENSIONAL EARTH SCIENCE
 SATELLITE DATA FOR TESTING OF LEARNING ALGORITHMS
 03/30/2001 - 02/28/2002 FY01: \$97,000 Total: \$97,000
Prin. Invest.: R B MYNENI
Tech. Officer: ARC/J COUGHLAN, ARC/S LAU
CASE Category: 22 - COMPUTER SCIENCE

NCC 9 127 **BOSTON UNIV** **5427**
 MICRO GRAVITY INDUCED CHANGES IN CONTROL OF MUSCLES
 05/11/2001 - 05/31/2004 FY01: \$100,000 Total: \$100,000
Prin. Invest.: C J DE LUCA
Tech. Officer: JSC/M ANDERSON
CASE Category: 56 - MEDICAL

NGT 1 52199 **BOSTON UNIV** **5428**
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
 07/20/1998 - 06/30/2001 FY01: \$12,000 Total: \$66,000
Prin. Invest.: K P HARLING, B DI BARTOLO
Tech. Officer: LARC/J C BARNES, LARC/N P BARNES
CASE Category: 13 - PHYSICS

NGT 5 30223 **BOSTON UNIV** **5429**
 RELATION BETWEEN INTERANNUAL VARIABILITY IN ATMOSPHERIC CO₂,
 SEA (ENSO) AND LAND SURFACE TEMPERATURE
 09/20/1999 - 08/31/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: R MYNENI, L ZHOU
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30401 **BOSTON UNIV** **5430**
 URBANIZATION AS A COMPONENT OF GLOBAL CHANGE. STUDENT: ANNE-
 MARIE SCHNEIDE
 08/14/2001 - 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: C WOODSTOCK
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30405 **BOSTON UNIV** **5431**
 ESTIMATION OF LAND SURFACE ENERGY BALANCE AND SURFACE
 PROPERTIES USING REMOTELY-SENSED OBSERVATION
 08/16/2001 - 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: M FRIEDL
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50171 **BOSTON UNIV** **5432**
 TOMOGRAPHIC IMAGING OF THE HOT INTERSTELLAR MEDIA USING
 ULTRAVIOLETSPECTROSCOPY
 06/03/1998 - 06/30/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: S CHAKRABARTI
Tech. Officer: HQ/A NURRIDIN
CASE Category: 49 - ENGINEERING, OTHER

NGT 5 50288 **BOSTON UNIV** **5433**
 SIMULATION OF PLASMA TURBULENCE IN THE AURORAL IONOSPHERE
 06/26/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: M OPPENHEIM
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50307 **BOSTON UNIV** **5434**
 GENE EXPRESSION PROFILE OF UNLOADED SKELETAL MUSCLE -
 STUDENT: ERIC STEVENSON
 07/06/2000 - 06/30/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: S KANDARIAN
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50309 **BOSTON UNIV** **5435**
 A PROSTHETIC FOOT SOLE FOR THE MITIGATION OF BALANCE DEFICITS
 CAUSED BY REDUCED PLANTAR SENSATION
 07/07/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: L ODDSSON
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 3 2386	BRANDEIS UNIV	5436	NAG 5 11134	CLARK UNIV	5444
NUCLEATION OF COLLOIDAL AND PROTEIN CRYSTALS IN THE VICINITY OF A METASTABLE CRITICAL POINT			LCLUC-SYPR II		
04/07/2000 - 11/30/2003	FY01: \$95,000	Total: \$170,000	07/26/2001 - 07/31/2002	FY01: \$99,824	Total: \$99,824
<i>Prin. Invest.:</i> D FRADEN			<i>Prin. Invest.:</i> B TURNER		
<i>Tech. Officer:</i> GRC/F P CHIARAMONTE			<i>Tech. Officer:</i> GSFC/G GUTMAN		
<i>CASE Category:</i> 49 - ENGINEERING, OTHER			<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER		
NAG 5 6100	BRANDEIS UNIV	5437	NCC 2 1270	CLARK UNIV	5445
THE GRAYBIEL LABORATORY ROTATING ROOM RESEARCH FACILITY			COFFEE HARVEST OPTIMIZATION USING UAV PLATFORMS FOR THE ACQUISITION OF HIGH SPATIAL RESOLUTION REAL		
10/02/1997 - 08/31/2000	FY01: \$0	Total: \$825,418	06/07/2001 - 06/14/2002	FY01: \$840,000	Total: \$840,000
<i>Prin. Invest.:</i> D LACKNER			<i>Prin. Invest.:</i> S HERWITZ		
<i>Tech. Officer:</i> GSFC/V SCHNEIDER			<i>Tech. Officer:</i> ARC/S S WEGENER		
<i>CASE Category:</i> 59 - LIFE SCIENCE, OTHER			<i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER		
NAG 9 1037	BRANDEIS UNIV	5438	NGT 5 97	CLARK UNIV	5446
MOTOR ADAPTATION TO CORIOLIS AND CONTACT			INTEGRATED ASSESSMENT AND PROJECTION OF LAND-USE/ COVER CHANGE IN THE SOUTHERN YUCATAN PENINSULAR		
07/01/1998 - 06/30/2001	FY01: \$266,364	Total: \$811,776	08/24/1999 - 08/31/2002	FY01: \$22,000	Total: \$66,000
<i>Prin. Invest.:</i> J LACKNER			<i>Prin. Invest.:</i> B L TURNER, S MANSON		
<i>Tech. Officer:</i> JSC/C W LLOYD			<i>Tech. Officer:</i> GSFC/M WEI		
<i>CASE Category:</i> 59 - LIFE SCIENCE, OTHER			<i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER		
NAG 9 1038	BRANDEIS UNIV	5439	NGT 5 30061	CLARK UNIV	5447
ADAPTATION IN ARTIFICIAL GRAVITY ENVIRONMENTS			DIAGNOSIS OF SPATIAL AND TEMPORAL PATTERNS OF DRY LAND-ATMOSPHERE WATER EXCHANGE IN THE TROPICAL SAV		
06/25/1998 - 08/30/2001	FY01: \$250,350	Total: \$617,290	09/10/1997 - 08/31/2001	FY01: \$0	Total: \$66,000
<i>Prin. Invest.:</i> J LACKNER			<i>Prin. Invest.:</i> L LEWIS		
<i>Tech. Officer:</i> JSC/C W LLOYD			<i>Tech. Officer:</i> GSFC/M Y WEI		
<i>CASE Category:</i> 59 - LIFE SCIENCE, OTHER			<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER		
NAG 9 1263	BRANDEIS UNIV	5440	NGT 5 30129	CLARK UNIV	5448
DEVELOPING PROCEDURES FOR ALLEVIATING ASTRONAUTS POST FLIGHT DISTR OF POSTURE AND LOCOMOTION			IDENTIFYING THE BIOPHYSICAL & HUMAN DIMENSIONS OF LAND DEGRADATION IN THE SEMI-ARID KAROO, SOUTH AFR		
12/06/2000 - 11/30/2003	FY01: \$309,386	Total: \$309,386	10/08/1997 - 08/31/2001	FY01: \$0	Total: \$66,000
<i>Prin. Invest.:</i> J R LACKNER			<i>Prin. Invest.:</i> B TURNER		
<i>Tech. Officer:</i> JSC/C W LLOYD			<i>Tech. Officer:</i> GSFC/G ASRAR		
<i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER			<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER		
NAG 2 1443	CLARK UNIV	5441	NGT 5 30147	CLARK UNIV	5449
COFFEE HARVEST OPTIMIZATION USING UAV PLATFORMS FOR THE ACQUISITION OF HIGH SPATIAL RESOLUTION REAL			IDENTIFYING THE LAND-MANAGEMENT INSTS AND LANDSCAPE PATTERNS GOVERNING SAVANNA FIRE REGI		
09/27/2000 - 12/31/2000	FY01: \$0	Total: \$90,000	08/31/1998 - 08/31/2002	FY01: \$0	Total: \$66,000
<i>Prin. Invest.:</i> S R HERWITZ			<i>Prin. Invest.:</i> B L TURNER, 11		
<i>Tech. Officer:</i> ARC/S S WEGENER, ARC/R S HIPSKIN			<i>Tech. Officer:</i> GSFC/M Y WEI		
<i>CASE Category:</i> 55 - AGRICULTURE			<i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER		
NAG 5 6046	CLARK UNIV	5442	NAG 5 8559	CLARK UNIV	5443
LAND-USE COVER IN THE SOUTHERN YUCATAN PENINSULAR			PIXELING THE SOCIAL USING REMOTELY SENSED INFORMATION IN SOCIAL SCIENCE MODELS		
07/31/1997 - 02/25/2001	FY01: \$0	Total: \$530,000	07/08/1999 - 06/30/2002	FY01: \$116,917	Total: \$344,368
<i>Prin. Invest.:</i> B TURNER			<i>Prin. Invest.:</i> J GEOGHEGAN		
<i>Tech. Officer:</i> GSFC/A JANETOS			<i>Tech. Officer:</i> GSFC/M Y WEI		
<i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER			<i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER		
NAG 5 8559	CLARK UNIV	5443	NGT 5 30153	CLARK UNIV	5450
PIXELING THE SOCIAL USING REMOTELY SENSED INFORMATION IN SOCIAL SCIENCE MODELS			LINKING REMOTE SENSING AND SOCIAL ANALYSIS: CAUSAL INFLUENCES OF TRANSITIONING ECONOMIES ON		
07/08/1999 - 06/30/2002	FY01: \$116,917	Total: \$344,368	08/28/1998 - 08/31/2001	FY01: \$0	Total: \$66,000
<i>Prin. Invest.:</i> J GEOGHEGAN			<i>Prin. Invest.:</i> B L TURNER, 11, HAAN		
<i>Tech. Officer:</i> GSFC/M Y WEI			<i>Tech. Officer:</i> GSFC/M Y WEI		
<i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER			<i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER		

NGT 5 30197 **CLARK UNIV** **5451**
 CONSERVATION IN THE SOUTHERN YUCATAN PENINSULAR REGION,
 MEXICO: LINKING LANDSCAPE ECOLOGY AND SOCIA
 08/18/1999 - 08/31/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: B L TURNER, 11
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30217 **CLARK UNIV** **5452**
 SOCIALIZING MIOMBO GEOLOGY: CHANGE IN WOODLAND USE AND ITS
 MEANING FOR SUSTAINABLE LIVELIHOODS/STUD
 08/24/1999 - 08/31/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: B L TURNER
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 8 1796 **COLLEGE OF THE HOLY CROSS** **5453**
 FOR RESEARCH "TRANSIENT DENDRITIC SOLIDIFICATION EXPERIMENT"
 03/07/2001 - 02/23/2002 FY01: \$100,000 Total: \$100,000
Prin. Invest.: M KOSS
Tech. Officer: MSFC/A JACKSON
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 1 2007 **HARVARD UNIV** **5454**
 IN-SITU DETECTION OF OH, HO₂, ClO, BRO, NO₂, ClONO₂, H₂O, AND O₃
 FROM THE ER-2
 02/18/1998 - 03/31/2001 FY01: -\$1 Total: \$5,928,959
Prin. Invest.: J G ANDERSON
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 2025 **HARVARD UNIV** **5455**
 ANALYSIS OF INTERANNUAL AND LONG TERM VARIATIONS OF STRATO-
 SPHERIC TRANSPORT OF OZONE AND DEVELOP-
 03/19/1998 - 01/31/2001 FY01: \$1 Total: \$345,001
Prin. Invest.: S C WOFSY
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 2126 **HARVARD UNIV** **5456**
 ANALYSIS AND MODELING OF PEM-TROPICS (B) DATA MY 1/3
 02/02/1999 - 12/31/2001 FY01: \$1 Total: \$328,001
Prin. Invest.: D J JACOB, J A LOGAN
Tech. Officer: LARC/J RAPER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 2307 **HARVARD UNIV** **5457**
 GLOBAL THREE-DIMENSIONAL MODELING STUDIES OF TROPOSPHERIC
 OZONE
 06/28/2000 - 03/31/2003 FY01: \$211,001 Total: \$481,001
Prin. Invest.: D J JACOB
Tech. Officer: LARC/G L MADDREA, HQ/P DE COLA
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 2328 **HARVARD UNIV** **5458**
 ANALYSIS OF ASIAN OUTFLOW OVER THE PACIFIC USING OBSERVATIONS
 FROM TRACE-P, NRA 00-OES-01
 09/20/2000 - 06/30/2003 FY01: \$115,469 Total: \$224,059
Prin. Invest.: D J JACOB
Tech. Officer: LARC/J L RAPER, SR
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 01095 **HARVARD UNIV** **5459**
 CHEMISTRY, DYNAMICS, AND RADIATION OF OZONE LOSS AIRBORNE
 MEAS OF OH, HO₂, NO₂, ClO BRO, IO, CLONO₂
 07/18/2001 - 12/31/2003 FY01: \$1,999,722 Total: \$1,999,722
Prin. Invest.: J G ANDERSON
Tech. Officer: LARC/L R POOLE, LARC/G L MADDREA
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 2 1300 **HARVARD UNIV** **5460**
 FREE RADICALS & REACTIVE INTERMEDIATES FOR THE SAGE III OZONE
 LOSS & VALIDATION EXPERIMENT SOLVE MI
 03/09/1999 - 11/30/2000 FY01: \$0 Total: \$519,444
Prin. Invest.: J G ANDERSON
Tech. Officer: ARC/E P CONDON, ARC/R S HIPSKIND
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 2 1304 **HARVARD UNIV** **5461**
 IN SITU MEASUREMENT OF CONCENTRATION OF ATMOSPHERIC CO₂ IN
 THE SAGE-2 OZONE LOSS &...: BALLOON MEAS
 03/19/1999 - 12/31/2001 FY01: \$0 Total: \$309,500
Prin. Invest.: S C WOFSY
Tech. Officer: ARC/E P CONDON, ARC/R S HIPSKIND
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 2 1310 **HARVARD UNIV** **5462**
 IN SITU MEASUREMENT OF CONCENTRATION OF ATMOSPHERIC CO₂ IN
 THE SAGE-3 OZONE LOSS & VALIDATION EXPER
 03/19/1999 - 12/31/2001 FY01: \$119,500 Total: \$437,000
Prin. Invest.: S C WOFSY
Tech. Officer: ARC/E P CONDON, ARC/R S HIPSKIND
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 2 1417 **HARVARD UNIV** **5463**
 BIOMECHANICS OF ARABIDOPSIS THALIANA WAVY ROOT DEVELOPMENT
 07/11/2000 - 06/30/2002 FY01: \$52,740 Total: \$121,609
Prin. Invest.: N M HOLBROOK
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 2 1509 **HARVARD UNIV** **5464**
 CONTROL OF CELL MECHANICS AND FUNCTION BY CELL MICROENVIRON-
 MENT
 07/26/2001 - 07/31/2002 FY01: \$112,405 Total: \$112,405
Prin. Invest.: N WANG
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 3 2284 **HARVARD UNIV** **5465**
 PHYSICS OF COLLOIDS IN SPACE PHYSICS OF COLLOIDS IN SPACE
 08/02/1999 - 06/30/2004 FY01: \$378,125 Total: \$831,125
Prin. Invest.: D WEITZ
Tech. Officer: GRC/B S SINGH
CASE Category: 13 - PHYSICS

NAG 3 2376 **HARVARD UNIV** **5466**
 MICROGRAVITY DRIVEN INSTABILITIES IN GAS-FLUIDIZED BEDS
 03/27/2000 - 11/30/2003 FY01: \$19,000 Total: \$49,000
Prin. Invest.: D A WEITZ
Tech. Officer: GRC/B MOTIL
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2381 HARVARD UNIV 5467
 FABRICATION OF PHOTONIC STRUCTURE WITH COLLOIDAL ENGINEERING
 04/07/2000 - 11/30/2003 FY01: \$76,000 Total: \$136,000
Prin. Invest.: D A WHITE
Tech. Officer: GRC/F P CHIARAMONTE
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2492 HARVARD UNIV 5468
 ENGINEERING OF NOVEL BIOCOLLOIDAL SUSPENSIONS ENGINEERING OF
 NOVEL BIOCOLLOIDAL SUSPENSIONS
 10/17/2000 - 11/30/2003 FY01: \$30,000 Total: \$30,000
Prin. Invest.: D A WEITZ
Tech. Officer: GRC/D GRIFFIN
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 3553 HARVARD UNIV 5469
 AN INVESTIGATION OF THE COUPLING BETWEEN TROPOSPHERIC OZONE,
 SULFATE AEROSOLS AND CLIMATE.....
 12/05/1996 - 08/31/2000 FY01: \$0 Total: \$990,000
Prin. Invest.: D JACOB
Tech. Officer: GSFC/D RIND
CASE Category: 11 - ASTRONOMY

NAG 5 3645 HARVARD UNIV 5470
 EVOLUTION OF PROTEROZOIC MICROORGANISMS AND ENVIRONMENTAL
 03/05/1997 - 11/30/2001 FY01: \$0 Total: \$353,808
Prin. Invest.: D H KNOLL
Tech. Officer: GSFC/M MEYER
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 4174 HARVARD UNIV 5471
 PALEOSOLS AS INDICATORS OF ATMOSPHERIC EVOLUTION
 03/24/1997 - 09/30/2000 FY01: \$0 Total: \$465,967
Prin. Invest.: D D HOLLAND
Tech. Officer: GSFC/M A MEYER
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIRONMENTAL)

NAG 5 4216 HARVARD UNIV 5472
 CCD PHOTOMETRY STUDY OF KUIPER BELT OBJECTS
 04/09/1997 - 02/29/2000 FY01: -\$10,009 Total: \$69,408
Prin. Invest.: D X SASSELOV
Tech. Officer: GSFC/J BERGSTRAHL
CASE Category: 11 - ASTRONOMY

NAG 5 4302 HARVARD UNIV 5473
 CROSS SECTION MEASUREMENTS FOR SOLAR COSMIC RAY ST
 04/12/1997 - 06/30/2001 FY01: \$0 Total: \$82,034
Prin. Invest.: D SISTERSON
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 4348 HARVARD UNIV 5474
 ABSOLUTE TRANSITION PROBABILITIES FOR LINES IN THE ASTROPHYSICAL
 ATOMS, MOLECULES AND IONS
 04/17/1997 - 12/31/2001 FY01: \$90,000 Total: \$426,197
Prin. Invest.: W H PARKINSON
Tech. Officer: GSFC/H HASAN
CASE Category: 11 - ASTRONOMY

NAG 5 4430 HARVARD UNIV 5475
 ISOTOPIC STUDIES OF SOLAR SYSTEMS ORIGINS
 05/06/1997 - 02/28/2002 FY01: \$45,000 Total: \$178,000
Prin. Invest.: D B JACOBSEN
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 4522 HARVARD UNIV 5476
 DEVELOPMENT OF HOT-ELECTRON MICROBOLMETERS FOR OBSERVING COSMIC
 MICROWAVE BACKGROUND RADIATION
 05/28/1997 - 12/31/1999 FY01: -\$122,937 Total: \$144,021
Prin. Invest.: P NAHUM
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 - ASTRONOMY

NAG 5 4713 HARVARD UNIV 5477
 CRYSTAL-LIQUID DENSITY INVERSIONS IN LUNAR AND PLANETARY
 06/17/1997 - 06/30/2000 FY01: -\$117 Total: \$69,883
Prin. Invest.: D G AGEE
Tech. Officer: GSFC/D NAVA
CASE Category: 11 - ASTRONOMY

NAG 5 4720 HARVARD UNIV 5478
 TUNGSTEN ISOTOPE STUDIES OF METEORITES
 06/17/1997 - 03/31/2001 FY01: \$0 Total: \$75,000
Prin. Invest.: D B JACOBSEN
Tech. Officer: GSFC/D NAVA
CASE Category: 11 - ASTRONOMY

NAG 5 5103 HARVARD UNIV 5479
 DEVELOPMENT OF EXITE3, IMAGING DETECTORS AND A LONG-DURATION
 BALLOON GONDOLA
 02/11/1997 - 06/30/2001 FY01: \$0 Total: \$616,629
Prin. Invest.: J E GRINDLAY
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/B A MERRITT
CASE Category: 13 - PHYSICS

NAG 5 5279 HARVARD UNIV 5480
 DEVELOPMENT OF A HARD X-RAY IMAGING DETECTOR AND SURVEY
 TELESCOPE (EXITE 3) FOR AN LDB MISSION
 05/31/2000 - 05/18/2002 FY01: \$222,855 Total: \$422,811
Prin. Invest.: G GRINDLAY
Tech. Officer: GSFC/B A MERRITT
CASE Category: 13 - PHYSICS

NAG 5 6554 HARVARD UNIV 5481
 LABORATORY STUDIES IN UV AND EUV SOLAR PHYSICS
 10/24/1997 - 05/31/2000 FY01: \$0 Total: \$290,231
Prin. Invest.: D H PARKINSON
Tech. Officer: GSFC/W J WAGNER
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 5 7039 HARVARD UNIV 5482
 STRUCTURE AND EVOLUTION OF X-RAY CLUSTERS: THEORY AND IMPLICATIONS
 FOR AXAF -ATP
 02/25/1998 - 02/14/2002 FY01: \$0 Total: \$269,824
Prin. Invest.: A LOEB
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 7201 HARVARD UNIV 5483
 GLOBAL THREE-DIMENSIONAL MODELING OF THE EFFECTS OF
 SUBSONIC AIRCRAFT ON OZONE
 03/24/1998 - 03/31/2001 FY01: \$0 Total: \$495,343
Prin. Invest.: D JACOB
Tech. Officer: GSFC/R W STEWART
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7534 HARVARD UNIV 5484
 LONG-TERM NET ECOSYSTEM EXCHANGE AT THE BOREAS NORTHERN
 OLD BLACKSPRUCE SITE: MECHANISMS FOR
 06/11/1998 - 05/31/2002 FY01: \$213,603 Total: \$1,159,850
Prin. Invest.: S C WORSY
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7616 HARVARD UNIV 5485
 FUNDING FOR 'INVESTIGATIONS OF THE GEODYNAMIC USING SATELLITE
 MAGNETIC FIELD OBSERVATIONS' (SENH98-0
 07/22/1998 - 07/14/2001 FY01: \$37,000 Total: \$224,000
Prin. Invest.: J BLOXHAM
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 7768 HARVARD UNIV 5486
 STUDYING THE SUPERNOVA HISTORY OF THE UNIVERSE WITH THE NEXT
 GENERATION SPACE TELESCOPE
 01/11/1999 - 01/14/2002 FY01: \$0 Total: \$56,348
Prin. Invest.: R KIRSHNER
Tech. Officer: GSFC/E SMITH
CASE Category: 11 - ASTRONOMY

NAG 5 7859 HARVARD UNIV 5487
 PHOTOABSORPTION CROSS SECTIONS AND THEIR TEMPERATURE
 DEPENDENCE FOR CO₂ AND H₂O IN THE 170 NM TO 20
 01/06/1999 - 12/31/2001 FY01: \$65,000 Total: \$183,875
Prin. Invest.: W H PARKINSON
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 - ASTRONOMY

NAG 5 8467 HARVARD UNIV 5488
 STUDIES OF STAR AND PLANETARY SYSTEM FORMATION
 05/03/1999 - 07/31/2001 FY01: -\$19,712 Total: \$20,288
Prin. Invest.: A W CAMERON
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8727 HARVARD UNIV 5489
 ORIGIN OF QUASAR ABSORPTION LINES IN A COSMOLOGICAL CONTEXT
 08/10/1999 - 12/31/2000 FY01: -\$8 Total: \$69,698
Prin. Invest.: L E HERNQUIST
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8779 HARVARD UNIV 5490
 CLOUDS AND WATER VAPOR IN THE CLIMATE SYSTEM
 08/30/1999 - 02/28/2001 FY01: \$0 Total: \$898,876
Prin. Invest.: J ANDERSON
Tech. Officer: GSFC/R CURRAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9019 HARVARD UNIV 5491
 1. H₂ IN HH2: FLUORESCENCE OR COLLISIONS? - FUSE 2. NON-RADIATIVE
 SHOCKS IN THE CYGNUS LOOP - FUSE
 02/02/2000 - 01/31/2002 FY01: \$0 Total: \$61,100
Prin. Invest.: J C RAYMOND
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 9521 HARVARD UNIV 5492
 MEASUREMENT & ANALYSIS OF THE SPATIAL & TEMPORAL VARIABILITY OF
 OROGRAPHIC PRECIPITATION IN THE
 04/26/2000 - 10/31/2000 FY01: \$0 Total: \$72,860
Prin. Invest.: A P BARROS
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9571 HARVARD UNIV 5493
 ISOTOPIC STUDIES OF THE FORMATION & EARLY DIFFERENTIATION OF
 PLANETS
 05/08/2000 - 04/30/2001 FY01: \$0 Total: \$15,000
Prin. Invest.: S B JACOBSEN
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 9643 HARVARD UNIV 5494
 CHEMISTRY, AEROSOLS, AND CLIMATE: TROPOSPHERIC UNIFIED SIMULA-
 TION (CACTUS)
 06/28/2000 - 05/31/2002 FY01: \$313,667 Total: \$630,667
Prin. Invest.: D J JACOB
Tech. Officer: GSFC/P DECOLA
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9823 HARVARD UNIV 5495
 MEASUREMENT, ANALYSIS, & MODELING OF THE SPATIAL & TEMPORAL
 VARIABILITY OF OROGRAPHIC PRECIP.
 07/24/2000 - 11/30/2001 FY01: \$114,000 Total: \$225,420
Prin. Invest.: A P BARROS
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 10040 HARVARD UNIV 5496
 ON THE ORIGIN OF DIPS IN 4U1915-05
 10/03/2000 - 09/30/2002 FY01: \$7,400 Total: \$7,400
Prin. Invest.: J E GRINDLAY
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10046 HARVARD UNIV 5497
 XMM OBSERVATIONS OF LARGE CORE CLUSTERS
 09/28/2000 - 09/30/2002 FY01: \$0 Total: \$8,100
Prin. Invest.: J E GRINDLAY
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10105 HARVARD UNIV 5498
 X-RAY SPECTROSCOPY OF LOW-LUMINOSITY ACTIVE GALACTIC NUCLEI
 WITH XMM
 12/18/2000 - 12/31/2001 FY01: \$4,865 Total: \$4,865
Prin. Invest.: R NARAYAN
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10484 HARVARD UNIV 5499
 ISOTOPIC STUDIES OF THE FORMATION & EARLY DIFFERENTIATION OF PLANETS
 03/05/2001 – 03/31/2002 FY01: \$70,000 Total: \$70,000
Prin. Invest.: S JACOBSEN
Tech. Officer: GSFC/J BOYCE
CASE Category: 12 – CHEMISTRY

NAG 5 10631 HARVARD UNIV 5500
 THE EVOLUTION OF ATMOSPHERIC OXYGEN AND THE COMPOSITION OF SEAWATER
 03/17/2001 – 03/14/2002 FY01: \$150,000 Total: \$150,000
Prin. Invest.: H D HOLLAND
Tech. Officer: GSFC/M MEYER
CASE Category: 11 – ASTRONOMY

NAG 5 10780 HARVARD UNIV 5501
 MODELS OF LOW-LUMINOSITY ACCRETION FLOWS (ATP 2000)
 04/20/2001 – 04/30/2002 FY01: \$94,389 Total: \$94,389
Prin. Invest.: R NARAYAN
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 10792 HARVARD UNIV 5502
 2001 7TH INTERNATIONAL PRECIPITATION CONFERENCE
 04/24/2001 – 12/31/2001 FY01: \$27,900 Total: \$27,900
Prin. Invest.: A P BARROS
Tech. Officer: GSFC/P R HOUSER
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10906 HARVARD UNIV 5503
 THE ORIGINS OF AUTOTROPHY: DISTRIBUTION, DIVERSITY AND EVOLUTION OF RUBISCO
 05/22/2001 – 07/31/2002 FY01: \$90,000 Total: \$90,000
Prin. Invest.: C M CAVANAUGH
Tech. Officer: GSFC/M MEYER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 11154 HARVARD UNIV 5504
 FLUXES OF CARBON, WATER, AND ENERGY IN A BOREAL FOREST-PEAT ECOSYSTEM: SHORT TERM VARIANCE, LONG
 08/02/2001 – 07/31/2002 FY01: \$189,403 Total: \$189,403
Prin. Invest.: S C WOFSY
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 11270 HARVARD UNIV 5505
 EVALUATION AND INTERCOMPARISON OF TROPOSPHERIC CHEMISTRY SIMULATIONS FOR GLOBAL MODEL INITIATIVE (GM)
 08/22/2001 – 08/31/2004 FY01: \$145,130 Total: \$145,130
Prin. Invest.: D JACOB
Tech. Officer: GSFC/P DECOLA
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 8 1256 HARVARD UNIV 5506
 KINETICS OF NUCLEATION AND GROWTH FROM UNDERCOOLED MELTS
 05/24/1996 – 05/22/2001 FY01: \$0 Total: \$700,000
Prin. Invest.: M J AZIZ, F SPAEPEN
Tech. Officer: MSFC/P DOTY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1680 HARVARD UNIV 5507
 "GLASS FORMATION, NUCLEATION AND DIFFUSION IN METALLIC MELTS"
 06/06/2000 – 11/30/2003 FY01: \$95,000 Total: \$140,000
Prin. Invest.: F A SPAEPEN, M J AZIZ
Tech. Officer: MSFC/P DOTY
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 8 1822 HARVARD UNIV 5508
 RESEARCH ENTITLED, "STUDY OF METASTABILITY OF HYDROGEN AGAINST A TRANSITION TO PRESSURE"
 06/29/2001 – 07/15/2002 FY01: \$99,972 Total: \$99,972
Prin. Invest.: I F SILVERA
Tech. Officer: MSFC/S D BAI
CASE Category: 43 – CHEMICAL ENGR

NAS 1 18946 HARVARD UNIV 5509
 SAGE III SCIENCE SUPPORT; P.I. – WOFSY
 11/28/1989 – 01/31/2005 FY01: \$80,000 Total: \$503,930
Prin. Invest.: S C WOFSY
Tech. Officer: LARC/G MADDREA
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NCC 2 897 HARVARD UNIV 5510
 LIGHTWEIGHT HIGH-PRECISION, FAST RESPONSE INSTRUMENT FOR AIRBORNE CO2 MEASUREMENTS FOR UAVS
 03/22/1995 – 12/31/1999 FY01: -\$5,300 Total: \$1,049,504
Prin. Invest.: S C WOFSY
Tech. Officer: ARC/S S WEGENER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 1053 HARVARD UNIV 5511
 THE PLANETARY CONTEXT OF BIOLOGICAL EVOLUTION
 09/14/1998 – 06/30/2003 FY01: \$856,664 Total: \$2,322,169
Prin. Invest.: A H KNOLL
Tech. Officer: ARC/R A GRAYMES, ARC/W W DOLCI
CASE Category: 59 – LIFE SCIENCE, OTHER

NCC 2 1236 HARVARD UNIV 5512
 PROBABILISTIC REASONING FOR COMPLEX DYNAMIC SYSTEMS
 04/11/2001 – 02/28/2002 FY01: \$66,000 Total: \$66,000
Prin. Invest.: A J PFEFFER
Tech. Officer: ARC/R A MORRIS, ARC/D J CLANCY
CASE Category: 22 – COMPUTER SCIENCE

NCC 5 341 HARVARD UNIV 5513
 NET ECOSYSTEM EXCHANGE OF CO2 AND H2O FROM PRIMARY TROPICAL FOREST IN CENTRAL AMAZONIA
 07/07/1998 – 12/31/2001 FY01: \$295,000 Total: \$1,362,000
Prin. Invest.: S C WOFSY
Tech. Officer: GSFC/D W DEERING
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 101 HARVARD UNIV 5514
 NATURAL SELECTION IN ELEMENTS OF PHOTOSYNTHESIS STUDENT: LUCAS MIX
 05/25/2000 – 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: C CAVANAUGH
Tech. Officer: GSFC/G A SOFFEN
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NGT 5 30144 HARVARD UNIV 5515
 THE EFFECTS OF ADJANCENCY ARRANGEMENTS ON PLANT DIVERSITY IN
 THE ASPEN PARKLAND ALBERTA
 08/27/1998 - 08/31/2000 FY01: \$0 Total: \$44,000
Prin. Invest.: R FORMAN, ALEXANDER
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30152 HARVARD UNIV 5516
 BIOLOGICAL AND PHYSICAL CONTROLS ON EVAPOTRANSPIRATION IN A
 MID-LATITUDE FOREST
 08/28/1998 - 08/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: S C WOFSY, LIN
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30205 HARVARD UNIV 5517
 NITRIC ACID AND NITROGEN DIOXIDE FLUX MEASUREMENTS OVER A
 NORTH-AMERICAN FOREST/STUDENT: CASSANDRA H
 08/19/1999 - 08/31/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: S C WOFSY
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30336 HARVARD UNIV 5518
 LABORATORY STUDIES OF TROPOSPHERIC SOURCES & SINKS OF THE
 HYDROXYL RADICAL: OXIDATION OF ALKENE
 08/21/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: J ANDERSON
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30366 HARVARD UNIV 5519
 CHARACTERIZING THE HYDROLOGICAL AND ENVIRONMENTAL CONTROLS
 ON THE CARBON BALANCE OF BOREAL FORESTS/AL
 08/13/2001 - 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: S WOFSY
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30410 HARVARD UNIV 5520
 A NEW METHOD FOR IN SITU MEASUREMENTS OF THE ISOTOPIC
 COMPOSITION OF WATER IN THE TROPICAL UPPER
 08/15/2001 - 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: J ANDERSON
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50020 HARVARD UNIV 5521
 OBSERVATIONS AND INSTRUMENTATION DEVELOPMENT TO STUDY
 STARS
 07/14/1997 - 06/30/2000 FY01: -\$265 Total: \$43,735
Prin. Invest.: J GRINDLEY
Tech. Officer: GSFC/A NURRIDIN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50028 HARVARD UNIV 5522
 A COMBINED X-RAY AND GRAVITATIONAL LENSING DETERMINATIONS OF
 GALAXIES
 07/14/1997 - 08/31/2000 FY01: -\$1,546 Total: \$42,454
Prin. Invest.: L HERNQUIST, FOX
Tech. Officer: GSFC/A NURRIDIN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50244 HARVARD UNIV 5523
 A KINEMATIC SURVEY OF NEARBY FIELD GALAXIES (STUDENT: SHEILA
 KANNAPPAN)
 06/02/1999 - 06/30/2001 FY01: \$0 Total: \$33,000
Prin. Invest.: R KIRSHNER
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50258 HARVARD UNIV 5524
 STUDIES IN LOW TEMPERATURE ATOMIC PHYSICS USING A CRYOGENIC
 HYDROGEN MASER STUDENT: MARC HUMPHR
 07/07/1999 - 06/30/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: W H PARKINSON
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 1 1857 MASSACHUSETTS INST OF TECHNOLOGY 5525
 FUNDAMENTAL ISSUES INVOLVED WITH MODE AWARENESS OF
 ADVANCED AUTOFLIGHT SYSTEMS
 07/24/1996 - 06/30/2000 FY01: -\$270 Total: \$293,040
Prin. Invest.: R J HANSMAN
Tech. Officer: LARC/M T PALMER
CASE Category: 41 - AERONAUTICAL ENGR

NAG 1 1900 MASSACHUSETTS INST OF TECHNOLOGY 5526
 TRACE GAS TRANSPORT IN THE TROPOSPHERE AND THE INTERPRETA-
 TION OF IN SITU CONCENTRATION MEASURE.
 02/10/1997 - 02/09/2000 FY01: -\$11 Total: \$217,990
Prin. Invest.: R A PLUMB
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 1978 MASSACHUSETTS INST OF TECHNOLOGY 5527
 FAST BOUND METHODS FOR LARGE SCALE SIMULATION WITH APPLICA-
 TION FOR ENGINEERING OPTIMIZATION
 12/10/1997 - 12/09/2000 FY01: \$29,726 Total: \$419,726
Prin. Invest.: A T PATERN, J PERAIRE
Tech. Officer: LARC/T A TANG, LARC/N M ALEXANDRIA
CASE Category: 41 - AERONAUTICAL ENGR

NAG 1 2027 MASSACHUSETTS INST OF TECHNOLOGY 5528
 LARGE-SCALE STRATOSPHERIC TRANSPORT PROCESSES MY 1/3
 03/20/1998 - 02/28/2001 FY01: \$0 Total: \$414,501
Prin. Invest.: R A PLUMB
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 2122 MASSACHUSETTS INST OF TECHNOLOGY 5529
 UNSTRUCTURED MESH METHODS FOR THE SIMULATION OF HYPERSONIC
 FLOW
 12/23/1998 - 03/31/2001 FY01: \$1 Total: \$190,766
Prin. Invest.: J PERAIRE
Tech. Officer: LARC/K L BIBB, LARC/K J WEILMUNSTER
CASE Category: 41 - AERONAUTICAL ENGR

NAG 1 2152 MASSACHUSETTS INST OF TECHNOLOGY 5530
 STUDIES OF TRACE GAS CHEMICAL CYCLES USING INVERSE METHODS &
 GLOBAL CHEMICAL TRANSPORT MODELS
 02/25/1999 - 12/31/2001 FY01: \$148,013 Total: \$428,180
Prin. Invest.: R G PRINN
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 2173 MASSACHUSETTS INST OF TECHNOLOGY 5531
 PHYS PROCESSES GOV/G ATMOSPHERIC TRACECONSTITUENTS MEAS'D
 FROM A/C IN PEM-TROPICS-B (NRA-97-MTPE-04)
 05/03/1999 - 02/28/2002 FY01: \$1 Total: \$445,112
Prin. Invest.: R E NEWELL
Tech. Officer: LARC/J L RAPER, LARC/R J BENDURA
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 2189 MASSACHUSETTS INST OF TECHNOLOGY 5532
 ALERTG SYS EVAL METHODOLOGY FOR TRAJ CORRIDOR CON-
 FORMANCE MONITORG W/APPLIC CLOSELY SPACED PARALLE
 04/28/1999 - 05/31/2000 FY01: -\$29 Total: \$70,388
Prin. Invest.: J K KUCHAR
Tech. Officer: LARC/M C WALLER, LARC/T S ABBOTT
CASE Category: 41 - AERONAUTICAL ENGR

NAG 1 2203 MASSACHUSETTS INST OF TECHNOLOGY 5533
 TRACER EVOLUTION AT HIGHER LATITUDES IN WINTER (SOLVE)
 06/17/1999 - 09/30/2001 FY01: \$8,319 Total: \$24,820
Prin. Invest.: R PLUMB
Tech. Officer: LARC/G MADDREA
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 2239 MASSACHUSETTS INST OF TECHNOLOGY 5534
 REQUIREMENT ENGINEERING FOR SOFTWARE INTEGRITY AND SAFETY
 (NRA 98-LARC-8)
 09/23/1999 - 09/30/2002 FY01: \$166,397 Total: \$352,740
Prin. Invest.: N LEVESON
Tech. Officer: LARC/D E ECKMARDT
CASE Category: 22 - COMPUTER SCIENCE

NAG 1 2275 MASSACHUSETTS INST OF TECHNOLOGY 5535
 DEVELOPMENT OF AN OUTPUT-BASED ADAPTIVE METHOD FOR MULTI-DI-
 MENSIONAL EULER AND NAVIER STOKES SIMUL-
 02/29/2000 - 12/31/2001 FY01: \$85,066 Total: \$165,279
Prin. Invest.: D L DARMOTAL
Tech. Officer: LARC/J L THOMAS/W K ANDERSON
CASE Category: 41 - AERONAUTICAL ENGR

NAG 1 2306 MASSACHUSETTS INST OF TECHNOLOGY 5536
 USE OF GTE, MOZAIC, SONEX AND UARS-MLS DATA IN UNDERSTANDING
 TROPOSPHERIC CRITICAL TO MODEL DEV.
 06/08/2000 - 03/31/2003 FY01: \$90,000 Total: \$180,000
Prin. Invest.: R E NEWELL
Tech. Officer: LARC/D L MODDREA
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 01025 MASSACHUSETTS INST OF TECHNOLOGY 5537
 PERFORMANCE AND RELIABILITY OPTIMIZATION FOR AERO- SPACE
 SYSTEMS SUBJECT TO UNCERTAINTY & DEGRADATIO
 02/16/2001 - 12/31/2001 FY01: \$90,351 Total: \$90,351
Prin. Invest.: D W MILLER
Tech. Officer: LARC/P G MAGHAMI
CASE Category: 41 - AERONAUTICAL ENGR

NAG 1 01102 MASSACHUSETTS INST OF TECHNOLOGY 5538
 ACTIVE TAILORING OF A FLEXIBLE WING USING LANGLEY MACRO-FIBER
 COMPOSITE (MFC) ACTUATORS
 06/20/2001 - 06/30/2002 FY01: \$39,988 Total: \$39,988
Prin. Invest.: C CESNIK
Tech. Officer: LARC/H K WILKIE
CASE Category: 41 - AERONAUTICAL ENGR

NAG 2 729 MASSACHUSETTS INST OF TECHNOLOGY 5539
 MODELING INFORMATION PROCESSING IN FLIGHT MANAGEM ENT
 08/27/1991 - 06/30/2001 FY01: \$0 Total: \$994,962
Prin. Invest.: T B SHERIDAN
Tech. Officer: ARC/S C LOZITO, ARC/E J HARTZELL
CASE Category: 69 - PSYCHOLOGY, OTHER

NAG 2 855 MASSACHUSETTS INST OF TECHNOLOGY 5540
 ARCHIVING OF PLANETARY RING DATA
 07/16/1993 - 03/31/2000 FY01: -\$399 Total: \$111,981
Prin. Invest.: J L ELLIOT
Tech. Officer: ARC/J N CUZZI
CASE Category: 11 - ASTRONOMY

NAG 2 1111 MASSACHUSETTS INST OF TECHNOLOGY 5541
 INVESTIGATON OF ALERT ZONE & DISPLAY CONCEPTS FOR FREE FLIGHT
 02/14/1997 - 08/31/2000 FY01: \$0 Total: \$360,478
Prin. Invest.: J K KUCHAR
Tech. Officer: ARC/S C LOZITO
CASE Category: 41 - AERONAUTICAL ENGR

NAG 2 1128 MASSACHUSETTS INST OF TECHNOLOGY 5542
 DEPARTURES PLANNING AT BUSY AIRPORTS
 05/09/1997 - 05/31/2000 FY01: -\$1,515 Total: \$548,485
Prin. Invest.: A R ODONI, R J HANSMAN, E FERON
Tech. Officer: ARC/D R ISSACSON, ARC/S C ATKINS
CASE Category: 29 - MATH/COMPUTER SCI, OTHER

NAG 2 1136 MASSACHUSETTS INST OF TECHNOLOGY 5543
 SDSI IMPLEMENTATION
 07/11/1997 - 11/30/2000 FY01: \$0 Total: \$153,149
Prin. Invest.: R L RIVEST
Tech. Officer: ARC/Y K LIU
CASE Category: 22 - COMPUTER SCIENCE

NAG 2 1272 MASSACHUSETTS INST OF TECHNOLOGY 5544
 APPLYING ATC AUTOMATION TO ADDRESS ENVIRONMENTAL C ONSIDERA-
 TIONS
 12/22/1998 - 02/28/2002 FY01: \$168,651 Total: \$486,178
Prin. Invest.: J P CLARKE
Tech. Officer: ARC/T TOBIAS, ARC/T J DAVIS
CASE Category: 41 - AERONAUTICAL ENGR

NAG 2 1299 MASSACHUSETTS INST OF TECHNOLOGY 5545
 HUMAN PERFORMANCE CONSIDERATIONS FOR SHARED INFORM ATION IN
 DATALINKED AIR TRAFFIC MANAGEMENT SYSTEM
 03/03/1999 - 07/31/2002 FY01: \$206,177 Total: \$370,533
Prin. Invest.: R J HANSMAN
Tech. Officer: ARC/S C LOZITO
CASE Category: 69 - PSYCHOLOGY, OTHER

NAG 2 1338 MASSACHUSETTS INST OF TECHNOLOGY 5546
 SOFTWARE DESIGN FOR AIR-TRAFFIC CONTROL
 07/19/1999 - 07/14/2001 FY01: \$0 Total: \$100,530
Prin. Invest.: D N JACKSON, J CHAPIN
Tech. Officer: ARC/M M ESHOW, ARC/K Y TUNG-CATE
CASE Category: 22 - COMPUTER SCIENCE

NAG 2 1350 MASSACHUSETTS INST OF TECHNOLOGY 5547
EFFECT OF GROWTH STARVATION UNDER SIMULATED MICRO- GRAVITY
ON THE BACTERIAL STRESS & SECONDARY METAB
07/21/1999 - 07/14/2002 FY01: \$217,880 Total: \$599,947
Prin. Invest.: A L DEMAIN
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 2 1388 MASSACHUSETTS INST OF TECHNOLOGY 5548
HYBRID ADAPTIVE METHODS FOR THE DEVELOPMENT OF MOD EL-BASED
AUTONOMOUS ROBOTIC SYSTEMS
12/01/1999 - 11/30/2001 FY01: \$300,000 Total: \$790,000
Prin. Invest.: B C WILLIAMS
Tech. Officer: ARC/S LAU
CASE Category: 22 - COMPUTER SCIENCE

NAG 2 1425 MASSACHUSETTS INST OF TECHNOLOGY 5549
MODELING & ANALYSIS OF MULTIPLE ALERTING SYSTEM IN TERACTIONS
07/26/2000 - 10/31/2001 FY01: \$111,097 Total: \$171,097
Prin. Invest.: J K KUCHAR
Tech. Officer: ARC/S C LOZITO
CASE Category: 41 - AERONAUTICAL ENGR

NAG 2 1458 MASSACHUSETTS INST OF TECHNOLOGY 5550
SURFACE GENERATION & CARTESIAN MESH SUPPORT
02/27/2001 - 02/28/2002 FY01: \$50,139 Total: \$50,139
Prin. Invest.: R HAIMES
Tech. Officer: ARC/M J AFTOSMIS, ARC/G KLUPFER
CASE Category: 22 - COMPUTER SCIENCE

NAG 2 1463 MASSACHUSETTS INST OF TECHNOLOGY 5551
SELF-DIRECTED COOPERATIVE PLANETARY ROVERS
03/16/2001 - 02/28/2002 FY01: \$270,961 Total: \$270,961
Prin. Invest.: S ZILBERSTEIN
Tech. Officer: ARC/R A MORRIS, ARC/S LAU
CASE Category: 22 - COMPUTER SCIENCE

NAG 2 1466 MASSACHUSETTS INST OF TECHNOLOGY 5552
UNIFYING MODEL-BASED SEQUENCE EXECUTION & FAULT PR OTECTION
FOR SPACE VEHICLES
03/23/2001 - 03/14/2003 FY01: \$471,560 Total: \$471,560
Prin. Invest.: B WILLIAMS
Tech. Officer: ARC/R MORRIS, ARC/S LAU
CASE Category: 22 - COMPUTER SCIENCE

NAG 2 1482 MASSACHUSETTS INST OF TECHNOLOGY 5553
UNDERSTANDING THE DYNAMICS OF AGILE SMALL-SCALE RO TORCRAFT
05/09/2001 - 04/30/2002 FY01: \$50,000 Total: \$50,000
Prin. Invest.: E FERON, NONE
Tech. Officer: ARC/M B TISCHER, ARC/B R LAKINSMITH
CASE Category: 41 - AERONAUTICAL ENGR

NAG 2 1515 MASSACHUSETTS INST OF TECHNOLOGY 5554
DEVELOPMENT OF STOCHASTIC MODELS AND MODULES AND I NTERAC-
TIVE COMMUNICATION CAPABILITIES FOR THE MIT
08/08/2001 - 07/31/2002 FY01: \$65,000 Total: \$65,000
Prin. Invest.: J P CLARKE
Tech. Officer: ARC/L A MEYN
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 1845 MASSACHUSETTS INST OF TECHNOLOGY 5555
DYNAMICS OF THE MOLTEN CONTACT LINE
05/20/1996 - 05/19/2001 FY01: \$0 Total: \$520,000
Prin. Invest.: A A SONIN
Tech. Officer: GRC/M M HASAN
CASE Category: 13 - PHYSICS

NAG 3 1879 MASSACHUSETTS INST OF TECHNOLOGY 5556
MODELING OF PULSED PLASMA THRUSTER PLUMES
05/22/1996 - 11/30/2000 FY01: \$0 Total: \$483,000
Prin. Invest.: J B HOWARD
Tech. Officer: GRC/J E BROOKER
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2019 MASSACHUSETTS INST OF TECHNOLOGY 5557
A GEOMETRY BASED INFA-STRUCTURE FOR COMPUTATIONAL ANALYSIS
03/05/1997 - 02/04/2001 FY01: -\$121 Total: \$368,934
Prin. Invest.: R HAIMES
Tech. Officer: GRC/G J FOLLEN, GRC/C LAWRENCE
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2051 MASSACHUSETTS INST OF TECHNOLOGY 5558
THREE DIMENSIONAL AERODYNAMIC INSTABILITIES IN MU LTI-STAGE
AXIAL COMPRESSORS
05/27/1997 - 07/31/2000 FY01: -\$788 Total: \$161,956
Prin. Invest.: C S TAN
Tech. Officer: GRC/A K OWEN
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2052 MASSACHUSETTS INST OF TECHNOLOGY 5559
IDENTIFICATION AND CONTROL OF ROTATING STALL MODES IN AXIAL
COMPRESSORS
05/27/1997 - 03/31/2001 FY01: \$15,000 Total: \$669,476
Prin. Invest.: J PADUANO
Tech. Officer: GRC/M BRIGHT
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2078 MASSACHUSETTS INST OF TECHNOLOGY 5560
AERODYNAMICS OF ADVANCED SUBSONIC TRANSPORT INTEGR ATED FAN
BYPASS DUCT SYSTEM AND ITS DESIGN
12/18/1997 - 08/31/2001 FY01: \$0 Total: \$211,012
Prin. Invest.: C S TAN
Prin. Invest.: NONE
Tech. Officer: GRC/J J ADAMCZYK
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2101 MASSACHUSETTS INST OF TECHNOLOGY 5561
THREE-DIMENSIONAL AERODYNAMIC INSTABILITIES IN MUL TI-STAGE
AXIAL COMPRESSORS
12/23/1997 - 11/23/2001 FY01: \$49,500 Total: \$289,769
Prin. Invest.: C S TAN
Tech. Officer: GRC/K L SUDER
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2155 MASSACHUSETTS INST OF TECHNOLOGY 5562
AN INTEROMETRIC INVESTIGATION OF CONTACT LINE DYNA MICS IN
SPREADING POLYMERMELTS AND SOLUTIONS
04/21/1998 - 01/19/2002 FY01: \$82,650 Total: \$357,650
Prin. Invest.: G H MCKINLEY
Tech. Officer: GRC/N R HALL
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 3 2178 MASSACHUSETTS INST OF TECHNOLOGY 5563
 INTEGRATED HUMAN CENTERED SYSTEMS ANALYSIS OF FUNCTIONAL REQUIREMENTS FOR COCKPIT ICING INFORMATION
 07/08/1998 - 12/31/2001 FY01: \$87,336 Total: \$239,975
Prin. Invest.: R J HANSMAN
Tech. Officer: GRC/A REEHORST
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2179 MASSACHUSETTS INST OF TECHNOLOGY 5564
 INTRA-ENGINE TRACE SPECIES CHEMISTRY
 06/30/1998 - 12/31/2000 FY01: \$0 Total: \$539,491
Prin. Invest.: L WAITZ
Tech. Officer: GRC/C C WEY
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2320 MASSACHUSETTS INST OF TECHNOLOGY 5565
 AEROTHERMAL PROBABILISTIC DESIGN OF COMPRESSOR BLADES
 01/13/2000 - 03/13/2002 FY01: \$134,614 Total: \$258,555
Prin. Invest.: D M DARMOFAL
Tech. Officer: GRC/S PAI
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2321 MASSACHUSETTS INST OF TECHNOLOGY 5566
 CHARACTERIZATION OF AEROMECHANICS RESPONSE AND INSTABILITY IN FANS, COMPRESSORS, AND TURBINE BLADES
 01/13/2000 - 11/30/2001 FY01: \$41,034 Total: \$91,034
Prin. Invest.: D S TAN
Tech. Officer: GRC/G L STEFKO
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2503 MASSACHUSETTS INST OF TECHNOLOGY 5567
 INTRA-ENGINE TRACE SPECIES CHEMISTRY INTRA-ENGINE TRACE SPECIES CHEMISTRY
 11/21/2000 - 11/30/2001 FY01: \$92,166 Total: \$92,166
Prin. Invest.: D A WAITZ
Tech. Officer: GRC/N LIU
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 3 2506 MASSACHUSETTS INST OF TECHNOLOGY 5568
 MICROFABRICATED LIQUID ROCKET MOTORS MICROFABRICATED LIQUID ROCKET MOTORS
 11/21/2000 - 11/30/2001 FY01: \$128,686 Total: \$128,686
Prin. Invest.: D H EPSTEIN
Tech. Officer: GRC/S SCHNEIDER
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 3 2523 MASSACHUSETTS INST OF TECHNOLOGY 5569
 CAPRI USING A GEOMETRIC FOUNDATION FOR COMPUTATIONAL ANALYSIS AND DESIGN
 01/17/2001 - 09/30/2003 FY01: \$109,920 Total: \$109,920
Prin. Invest.: R HAIMES
Tech. Officer: GRC/G FOLLEN
CASE Category: 29 - MATH/COMPUTER SCI, OTHER

NAG 4 157 MASSACHUSETTS INST OF TECHNOLOGY 5570
 DEVELOPMENT OF AN UNSTRUCTURED MESH CODE FOR FLOWS ABOUT COMPLETE VEHICLES
 08/27/1998 - 05/31/2001 FY01: -\$88 Total: \$78,741
Prin. Invest.: J PERAIRE
Tech. Officer: DFRC/K GUPTA
CASE Category: 41 - AERONAUTICAL ENGR

NAG 5 3550 MASSACHUSETTS INST OF TECHNOLOGY 5571
 ASSESSMENT OF GEOPHYSICAL SIGNALS IN GLOBAL GEODETIC DATA
 12/14/1996 - 11/30/2000 FY01: -\$20 Total: \$399,460
Prin. Invest.: T A HERRING
Tech. Officer: GSFC/P TAYLOR
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 3558 MASSACHUSETTS INST OF TECHNOLOGY 5572
 ACCRETING BLACK HOLES - AN ALL OUT EFFORT
 12/14/1996 - 12/14/2001 FY01: \$52,000 Total: \$182,003
Prin. Invest.: W H LEWIN
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 3726 MASSACHUSETTS INST OF TECHNOLOGY 5573
 AMAZON DEFORESTATION & REGIONAL CLIMATE
 02/12/1997 - 02/28/2001 FY01: \$0 Total: \$317,531
Prin. Invest.: R L BRAS
Tech. Officer: GSFC/R KAKAR
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 3727 MASSACHUSETTS INST OF TECHNOLOGY 5574
 DEVELOPMENT OF OLIGONUCLEOTIDE PROBES TO STUDY THE PROCHLOROCOCCUS STRAINS WITH DIFFERING PHOTOSYNTH
 02/20/1997 - 02/14/2001 FY01: \$0 Total: \$164,761
Prin. Invest.: S W CHISHOLM
Tech. Officer: GSFC/J A YODER
CASE Category: 33 - OCEANOGRAPHY

NAG 5 3915 MASSACHUSETTS INST OF TECHNOLOGY 5575
 SOLAR SYSTEM DYNAMICS
 02/21/1997 - 09/30/2001 FY01: \$120,000 Total: \$613,900
Prin. Invest.: J WISDOM
Tech. Officer: GSFC/D G SENSKE
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 3939 MASSACHUSETTS INST OF TECHNOLOGY 5576
 SMALL MAIN-BELT SPECTROSCOPIC SURVEY
 02/12/1997 - 12/31/2001 FY01: \$0 Total: \$570,720
Prin. Invest.: D P BINZEL
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 - ASTRONOMY

NAG 5 3940 MASSACHUSETTS INST OF TECHNOLOGY 5577
 STELLAR OCCULTATION STUDIES OF PLUTO, TRITON
 02/12/1997 - 11/30/2001 FY01: \$0 Total: \$494,752
Prin. Invest.: D L ELLIOT
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 - ASTRONOMY

NAG 5 3974 MASSACHUSETTS INST OF TECHNOLOGY 5578
 ADVANCED GLOBAL ATMOSPHERIC GASES EXPERIMENT (AGAGE)
 02/26/1997 - 01/31/2002 FY01: \$453,924 Total: \$2,337,117
Prin. Invest.: R G PRINN
Tech. Officer: GSFC/M J KURYLO
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 3977 MASSACHUSETTS INST OF TECHNOLOGY 5579
 COLLISION PROCESSES INVOLVING ATMOSPHERIC FREE RAD INFRARED
 ABSORBERS
 02/26/1997 - 09/30/2001 FY01: \$0 Total: \$287,633
Prin. Invest.: P STEINFELD
Tech. Officer: GSFC/P L DECOLA
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 4047 MASSACHUSETTS INST OF TECHNOLOGY 5580
 INVESTIGATION OF VENUS SURFACE PROPERTIES
 03/10/1997 - 12/31/2001 FY01: \$0 Total: \$165,000
Prin. Invest.: D G FORD
Tech. Officer: GSFC/J G GRANT
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 4115 MASSACHUSETTS INST OF TECHNOLOGY 5581
 RXTE SEARCH FOR THE CENTRIFUGAL BARRIER IN TRANSIE
 04/17/1997 - 04/14/2000 FY01: \$1 Total: \$25,842
Prin. Invest.: S RAPPAPORT
Tech. Officer: GSFC/J SWANK
CASE Category: 11 - ASTRONOMY

NAG 5 4434 MASSACHUSETTS INST OF TECHNOLOGY 5582
 RESEARCH PARTICIPATION IN THE MARS ORBITING LASER
 04/28/1997 - 12/31/2001 FY01: \$74,391 Total: \$409,282
Prin. Invest.: G H PETTENGILL
Tech. Officer: GSFC/D E SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 4485 MASSACHUSETTS INST OF TECHNOLOGY 5583
 TIMING AND SPECTRAL STUDY OF 4U 1538-52
 05/06/1997 - 04/30/2000 FY01: -\$10 Total: \$20,120
Prin. Invest.: G CLARK
Tech. Officer: GSFC/J SWANK
CASE Category: 11 - ASTRONOMY

NAG 5 4555 MASSACHUSETTS INST OF TECHNOLOGY 5584
 PLANETARY TECTONICS AND VOLCANISM
 06/23/1997 - 03/31/2002 FY01: \$92,000 Total: \$689,783
Prin. Invest.: D R ZUBER
Tech. Officer: GSFC/H BRINTON
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 4733 MASSACHUSETTS INST OF TECHNOLOGY 5585
 FAST TIMING AND SPECTROSCOPY OF Z SOURCES
 06/04/1997 - 06/30/2000 FY01: \$0 Total: \$30,000
Prin. Invest.: W LEWIN
Tech. Officer: GSFC/J SWANK
CASE Category: 11 - ASTRONOMY

NAG 5 4768 MASSACHUSETTS INST OF TECHNOLOGY 5586
 PHASE EQUILIBRIUM INVESTIGATIONS OF PLANETARY MATE
 06/09/1997 - 06/30/2001 FY01: \$0 Total: \$180,000
Prin. Invest.: P L GROVE
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 4778 MASSACHUSETTS INST OF TECHNOLOGY 5587
 RAINFALL-LIGHTNING RELATIONSHIPS ON A GLOBAL BASIS
 06/18/1997 - 11/30/2000 FY01: \$0 Total: \$406,916
Prin. Invest.: E R WILLIAMS
Tech. Officer: GSFC/R W LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 4806 MASSACHUSETTS INST OF TECHNOLOGY 5588
 MARS OBSERVER LASER ALTIMETER
 08/01/1997 - 07/31/2001 FY01: \$110,565 Total: \$970,797
Prin. Invest.: M T ZUBER
Tech. Officer: GSFC/D E SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 4807 MASSACHUSETTS INST OF TECHNOLOGY 5589
 GPS MEASUREMENTS OF LOCALIZED INTRACONTINENTAL DEF HAN
 08/01/1997 - 07/31/2000 FY01: \$0 Total: \$194,000
Prin. Invest.: P MOLNAR
Tech. Officer: GSFC/H FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 4879 MASSACHUSETTS INST OF TECHNOLOGY 5590
 XTE OBSERVATIONS OF PSR1259-63 NEAR APASTRON
 07/15/1997 - 07/14/2000 FY01: \$0 Total: \$3,000
Prin. Invest.: V KASPI
Tech. Officer: GSFC/J SWANK
CASE Category: 11 - ASTRONOMY

NAG 5 4880 MASSACHUSETTS INST OF TECHNOLOGY 5591
 THE FACTORS CONTROLLING POLEWARD HEAT TRANSPORT IN
 07/15/1997 - 04/30/2001 FY01: \$0 Total: \$178,640
Prin. Invest.: P H STONE
Tech. Officer: GSFC/A HOU
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 4989 MASSACHUSETTS INST OF TECHNOLOGY 5592
 CENTER FOR QUANTITATIVE CARDIOVASCULAR PHYSIOLOGY, ANALYSIS
 06/27/1997 - 08/31/2001 FY01: \$0 Total: \$575,000
Prin. Invest.: R COHEN
Tech. Officer: GSFC/V SCHNEIDER
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 5 5105 MASSACHUSETTS INST OF TECHNOLOGY 5593
 A THREE-YEAR PROGRAM OF MICRO AND NANO SYSTEM TECHNOLOGY
 DEVELOPMENT FOR X-RAY ASTRONOMY
 01/17/1997 - 01/31/2001 FY01: \$0 Total: \$915,000
Prin. Invest.: C R CANIZARES
Tech. Officer: GSFC/B FLOWERS
CASE Category: 13 - PHYSICS

NAG 5 5271 MASSACHUSETTS INST OF TECHNOLOGY 5594
 FIRST YEAR OF TWO YEAR EFFORT FIRST YEAR OF TWO YEAR EFFORT -
 A PROGRAM OF
 04/17/2000 - 04/16/2002 FY01: \$385,000 Total: \$740,000
Prin. Invest.: M SCHATTEBURG
Tech. Officer: GSFC/J C BRINTON
CASE Category: 13 - PHYSICS

NAG 5 5329 MASSACHUSETTS INST OF TECHNOLOGY 5595
 ADAPTATION OF GAS ELECTRON MULTIPLIER TECHNOLOGY FOR
 ROUTINE
 03/29/2001 - 03/31/2004 FY01: \$129,884 Total: \$129,884
Prin. Invest.: A LEVINE
Tech. Officer: GSFC/J BRINTON
CASE Category: 13 - PHYSICS

NAG 5 6062 MASSACHUSETTS INST OF TECHNOLOGY 5596
 RECENT AND ACTIVE EVOLUTION OF THE EASTERN TIBETAN IPLINARY
 STUDY
 07/28/1997 - 07/14/2001 FY01: \$0 Total: \$151,577
Prin. Invest.: B C FIELD
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 6063 MASSACHUSETTS INST OF TECHNOLOGY 5597
 VERTICAL ACCURACY IMPROVEMENT FOR VLBI AND GPS
 08/01/1997 - 07/14/2001 FY01: \$0 Total: \$272,990
Prin. Invest.: A E NIELL
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 6129 MASSACHUSETTS INST OF TECHNOLOGY 5598
 MODELING THE EXTENDED NEUTRAL ATMOSPHERE AND PLASM SATURN
 08/04/1997 - 07/14/2000 FY01: -\$4 Total: \$180,996
Prin. Invest.: D RICHARDSON, NONE
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 6145 MASSACHUSETTS INST OF TECHNOLOGY 5599
 CRUSTAL DEFORMATION AND EARTHQUAKE HAZARDS IN THE REGION
 08/21/1997 - 08/31/2000 FY01: \$0 Total: \$350,000
Prin. Invest.: R E REILINGER
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 6304 MASSACHUSETTS INST OF TECHNOLOGY 5600
 GLOBAL SCALE CIRCULATION PROCESSES
 10/10/1997 - 04/30/2000 FY01: -\$3 Total: \$203,997
Prin. Invest.: D S LINDZEN
Tech. Officer: GSFC/K H BERGMAN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 6352 MASSACHUSETTS INST OF TECHNOLOGY 5601
 SURFACE DEFORMATION AND GRAVITY CHANGES FROM SURFA LOADS
 09/26/1997 - 01/14/2001 FY01: \$0 Total: \$300,000
Prin. Invest.: B HAGER
Tech. Officer: GSFC/E J LINSTROM
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6473 MASSACHUSETTS INST OF TECHNOLOGY 5602
 SHOCK EVOLUTION IN THE OUTER HELIOSPHERE
 11/13/1997 - 10/31/2000 FY01: -\$30 Total: \$148,928
Prin. Invest.: K PAULARENA
Tech. Officer: GSFC/J LING
CASE Category: 11 - ASTRONOMY

NAG 5 6523 MASSACHUSETTS INST OF TECHNOLOGY 5603
 STUDIES OF TECHNIQUES FOR THE DETECTION OF PLANETS OF OTHER
 SOLAR SYSTEMS
 12/16/1997 - 06/30/2000 FY01: \$0 Total: \$45,000
Prin. Invest.: B BURKE
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 - ASTRONOMY

NAG 5 6710 MASSACHUSETTS INST OF TECHNOLOGY 5604
 PHYSICAL MECHANISMS CONTROLLING UPPER TROPOSPHERIC WATER
 VAPOR AS REVEALED BY MLS DATA FROM U
 12/17/1997 - 11/30/2001 FY01: \$0 Total: \$278,000
Prin. Invest.: D NEWELL
Tech. Officer: GSFC/A DOUGLASS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 6722 MASSACHUSETTS INST OF TECHNOLOGY 5605
 EARLY PRECAMBRIAN CARBONATE AND EVAPORITE SEDIMENT S:
 CONSTRAINTS ON ENVIRONMENTAL AND BIOLOGICA
 12/16/1997 - 09/30/2000 FY01: \$0 Total: \$233,666
Prin. Invest.: J GROTZINGER
Tech. Officer: GSFC/M MEYER
CASE Category: 11 - ASTRONOMY

NAG 5 7012 MASSACHUSETTS INST OF TECHNOLOGY 5606
 JETS IN AGN: NUMERICAL SIMULATIONS IN RELATIVISTIC MHD - ATP
 02/19/1998 - 02/28/2002 FY01: \$0 Total: \$182,915
Prin. Invest.: M H VAN PUTTEN
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 7194 MASSACHUSETTS INST OF TECHNOLOGY 5607
 ATLANTIC OCEAN PROCESSES FROM SUBPOLAR REGIONS TO THE
 SOUTHERN SUBTRO- PICAL GYRE: MODEL/DATA COMPAR
 03/26/1998 - 04/30/2001 FY01: \$45,160 Total: \$498,840
Prin. Invest.: P RIZZOLI
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7204 MASSACHUSETTS INST OF TECHNOLOGY 5608
 PARTICIPATION IN THE GISS EOS PROPOSAL
 03/25/1998 - 07/14/2000 FY01: \$0 Total: \$100,000
Prin. Invest.: P H STONE
Tech. Officer: GSFC/D RIND
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7279 MASSACHUSETTS INST OF TECHNOLOGY 5609
 XTE PROPOSAL - DOES PRECESSION OF THE ACCRETION DI SK OF SMC
 X-1 CAUSE A VARIATION IN THE PULSE PR
 04/15/1998 - 04/14/2001 FY01: \$0 Total: \$10,125
Prin. Invest.: G W CLARK
Tech. Officer: GSFC/J SWANK
CASE Category: 11 - ASTRONOMY

NAG 5 7359 MASSACHUSETTS INST OF TECHNOLOGY 5610
 MO & DA ON THE SWIE INSTRUMENT ON THE WIND SPACECRAFT
 05/05/1998 - 09/30/2001 FY01: \$0 Total: \$502,000
Prin. Invest.: A LARARUS
Tech. Officer: GSFC/K OGILVIE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 7375 MASSACHUSETTS INST OF TECHNOLOGY 5611
 XTE PROPOSAL - SPECTRAL AND TIMING INVESTIGATIONS OF DWARF
 NOVAE SELECTED INHARD X-RAYS
 05/12/1998 - 05/31/2000 FY01: -\$248 Total: \$6,498
Prin. Invest.: R A REMILLARD
Tech. Officer: GSFC/J SWANK
CASE Category: 11 - ASTRONOMY

NAG 5 7475 MASSACHUSETTS INST OF TECHNOLOGY 5612
 THE VALUE OF DISTRIBUTED MODELING TO FLOOD FORECASTING
 06/18/1998 - 08/31/2002 FY01: \$0 Total: \$382,143
Prin. Invest.: R BRASS
Tech. Officer: GSFC/E ENGMAN
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 7480 MASSACHUSETTS INST OF TECHNOLOGY 5613
 XTE PROPOSAL (30269) - BL LACS IN X-RAY OUTBURST
 06/01/1998 - 05/31/2000 FY01: -\$207 Total: \$5,805
Prin. Invest.: R A REMILLARD
Tech. Officer: GSFC/J SWANK
CASE Category: 11 - ASTRONOMY

NAG 5 7481 MASSACHUSETTS INST OF TECHNOLOGY 5614
 XTE PROPOSAL (30079) - SIMULTANEOUS RXTE AND RADIO OBSERVA-
 TIONS OF THE RAPID BURSTER IN OUTBURST
 06/01/1998 - 05/31/2000 FY01: -\$1 Total: \$4,999
Prin. Invest.: W LEWIN
Tech. Officer: GSFC/J SWANK
CASE Category: 11 - ASTRONOMY

NAG 5 7487 MASSACHUSETTS INST OF TECHNOLOGY 5615
 THIS PR PROVIDES FUNDING TO A MIT GRANT ON "PASSIVE MICROWAVE
 STUDIES OF ATMOSPHERIC PRECIPITATION A
 06/05/1998 - 11/30/2001 FY01: \$0 Total: \$355,000
Prin. Invest.: D STAELIN
Tech. Officer: GSFC/J C SHIUE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7517 MASSACHUSETTS INST OF TECHNOLOGY 5616
 XTE PROPOSAL (30137) TARGET OF OPPORTUNITY POSITIONING OF
 TRANSIENT X-RAY PULSARS
 06/04/1998 - 06/14/2000 FY01: -\$46 Total: \$6,769
Prin. Invest.: D CHAKRABARTY
Tech. Officer: GSFC/J SWANK
CASE Category: 11 - ASTRONOMY

NAG 5 7525 MASSACHUSETTS INST OF TECHNOLOGY 5617
 USE OF SATELLITE REMOTE SENSING TO STUDY THE ROLE OF RAINFO-
 RESTS IN TROPICAL CLIMATE
 06/08/1998 - 12/31/2002 FY01: \$99,993 Total: \$311,993
Prin. Invest.: E ELTAHIR
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7794 MASSACHUSETTS INST OF TECHNOLOGY 5618
 INTERCALIBRATION AND CROSS-CORRELATION OF ACE AND WIND SOLAR
 WIND DATA
 12/10/1998 - 09/30/2002 FY01: \$69,243 Total: \$203,205
Prin. Invest.: D J LAZARUS
Tech. Officer: GSFC/D C LING
CASE Category: 11 - ASTRONOMY

NAG 5 7839 MASSACHUSETTS INST OF TECHNOLOGY 5619
 STRUCTURAL DYNAMICS & CONTROLS ANALYSES, SIMULATIONS, AND
 TESTBEDS FOR THE NEXT GENERATION SPACE T
 12/16/1998 - 12/14/2001 FY01: \$111,982 Total: \$412,910
Prin. Invest.: D W MILLER
Tech. Officer: GSFC/G MOSIER
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 5 7857 MASSACHUSETTS INST OF TECHNOLOGY 5620
 A SYNTHESIS OF THE GLOBAL WOE OBSERVATIONS OF THE OCEANIC
 CIRCULATION
 12/10/1998 - 11/30/2001 FY01: \$275,090 Total: \$787,330
Prin. Invest.: C WUNSCH
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7967 MASSACHUSETTS INST OF TECHNOLOGY 5621
 A SEARCH FOR THE SOLAR SOURCES OF HIGH-SPEED SOLAR WIND
 STREAMS
 01/15/1999 - 12/14/2001 FY01: \$98,645 Total: \$288,490
Prin. Invest.: D J LAZARUS
Tech. Officer: GSFC/D C LING
CASE Category: 11 - ASTRONOMY

NAG 5 7990 MASSACHUSETTS INST OF TECHNOLOGY 5622
 RELATIVISTIC ASTROPHYSICS IN BLACK HOLE AND LOW-MASS NEUTRON
 STAR X-RAY BINARIES - LTSA98
 01/22/1999 - 08/14/2000 FY01: \$0 Total: \$33,532
Prin. Invest.: W CUI
Tech. Officer: GSFC/R K OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 8031 MASSACHUSETTS INST OF TECHNOLOGY 5623
 REDUCTION AND SCIENTIFIC ANALYSIS OF DATA FROM IMP -8
 01/19/1999 - 12/31/2001 FY01: \$122,546 Total: \$312,734
Prin. Invest.: A J LAZARUS, NONE
Tech. Officer: GSFC/J KING
CASE Category: 11 - ASTRONOMY

NAG 5 8045 MASSACHUSETTS INST OF TECHNOLOGY 5624
 SCIENTIFIC ANALYSIS OF DATA FOR THE ISTP/SOLARMAX PROGRAM
 01/11/1999 - 01/14/2002 FY01: \$0 Total: \$99,954
Prin. Invest.: A J LAZARUS
Tech. Officer: GSFC/M H ACUNA
CASE Category: 13 - PHYSICS

NAG 5 8063 MASSACHUSETTS INST OF TECHNOLOGY 5625
 PULSAR WIND NEBULAE, SPACE VELOCITIES, & SUPERNOVA REMNANT
 ASSOCIATIONS LTSA 98
 01/13/1999 - 01/14/2002 FY01: \$48,000 Total: \$144,000
Prin. Invest.: V M KASPI
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8224 MASSACHUSETTS INST OF TECHNOLOGY 5626
 "THEORY AND MODELING OF STRATOSPHERIC AGE DISTRIBUTIONS"
 02/10/1999 - 08/14/2000 FY01: \$0 Total: \$73,316
Prin. Invest.: R PLUMB
Tech. Officer: GSFC/R W STEWART
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 8244 MASSACHUSETTS INST OF TECHNOLOGY 5627
 SEARCH FOR ORBITAL DECAY IN LMC X-4
 02/10/1999 - 02/14/2000 FY01: -\$87 Total: \$10,555
Prin. Invest.: S A RAPPAPORT
Tech. Officer: GSFC/J SWANK
CASE Category: 11 - ASTRONOMY

NAG 5 8368 MASSACHUSETTS INST OF TECHNOLOGY 5628
 FORMATION AND EVOLUTION OF BINARY SYSTEMS CONTAINING COLLAPSED STARS(ATP 98)
 03/01/1999 - 04/30/2002 FY01: \$55,000 Total: \$161,810
Prin. Invest.: S A RAPPAPORT
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8460 MASSACHUSETTS INST OF TECHNOLOGY 5629
 THEORETICAL STUDIES OF BINARY SYSTEMS CONTAINING COLLAPSED STARS
 04/16/1999 - 04/14/2002 FY01: \$82,608 Total: \$237,669
Prin. Invest.: F A RASIO
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 8617 MASSACHUSETTS INST OF TECHNOLOGY 5630
 TWO-WAY BIOSPHERE-ATMOSPHERE INTERACTIONS: THEIR IMPLICATIONS FOR SATELLITE OBSERVATIONS OF REGIONAL
 06/14/1999 - 06/30/2002 FY01: \$75,183 Total: \$199,247
Prin. Invest.: E B ELTAHIR
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8668 MASSACHUSETTS INST OF TECHNOLOGY 5631
 DIRECT DEPOSITION OF OPTICAL BLOCKING FILTERS ON CCD X-RAY DETECTORS
 07/07/1999 - 09/30/2001 FY01: \$0 Total: \$172,793
Prin. Invest.: M W BAUTZ
Tech. Officer: GSFC/G MUCKLOW
CASE Category: 11 - ASTRONOMY

NAG 5 8707 MASSACHUSETTS INST OF TECHNOLOGY 5632
 IMPLICATIONS OF LUNAR PROSPECTOR DATA FOR LUNAR GEOPHYSICS
 07/20/1999 - 07/31/2002 FY01: \$45,000 Total: \$172,347
Prin. Invest.: M T ZUBER
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8720 MASSACHUSETTS INST OF TECHNOLOGY 5633
 INVESTIGATION OF SOLAR WIND CORRELATIONS & MODIFICATIONS NEAR EARTH USING MULTI-SPACECRAFT OBSERVATIONS
 08/03/1999 - 07/31/2002 FY01: \$24,000 Total: \$70,500
Prin. Invest.: J I RICHARDSON
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8776 MASSACHUSETTS INST OF TECHNOLOGY 5634
 RESIN-SPINNING OF SYNTHETIC POLYMER FIBERS WITH SILK-LIKE PROPERTIES
 08/31/1999 - 08/31/2002 FY01: \$166,250 Total: \$385,000
Prin. Invest.: G MCKINLEY
Tech. Officer: GSFC/R CROUCH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 8814 MASSACHUSETTS INST OF TECHNOLOGY 5635
 TEMPO OF THE PERMIAN MASS EXTINCTIONS & RECOVERIES
 09/29/1999 - 04/01/2002 FY01: \$114,000 Total: \$228,000
Prin. Invest.: S A BOWRING
Tech. Officer: GSFC/M MEYER
CASE Category: 11 - ASTRONOMY

NAG 5 8887 MASSACHUSETTS INST OF TECHNOLOGY 5636
 LABORATORY STUDIES OF HOMOGENEOUS & HETEROGENEOUS CHEMICAL PROCESSES OF IMPORTANCE IN THE UPPER ATMOSPHERE
 12/02/1999 - 12/31/2001 FY01: \$199,995 Total: \$399,610
Prin. Invest.: M MOLINA
Tech. Officer: GSFC/P DECOLA
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8947 MASSACHUSETTS INST OF TECHNOLOGY 5637
 MODELING THE EXTENDED NEUTRAL ATMOSPHERE & PLASMA ENVIRONMENT NEAR SATURN/FOLLOW-ON TO NAG5-6129
 01/18/2000 - 07/14/2002 FY01: \$63,200 Total: \$122,734
Prin. Invest.: J D RICHARDSON
Tech. Officer: GSFC/D BOGAN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9057 MASSACHUSETTS INST OF TECHNOLOGY 5638
 NEW GPS SITES ON THE ARABIAN PLATE TO EXPAND THE IGS NETWORK & TO SUPPORT MEASUREMENTS OF THE RED SEA
 02/15/2000 - 02/28/2001 FY01: \$4,500 Total: \$18,000
Prin. Invest.: R E REILINGER, NONE
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 9080 MASSACHUSETTS INST OF TECHNOLOGY 5639
 DEVELOPMENT OF SOLID-STATE LOCAL-OSCILLATOR SOURCE FOR TERAHERTZ FREQUENCIES
 02/17/2000 - 02/28/2003 FY01: \$144,000 Total: \$282,000
Prin. Invest.: Q HU
Tech. Officer: GSFC/G STRINGFELLOW
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9117 MASSACHUSETTS INST OF TECHNOLOGY 5640
 SELF-ORGANIZED CRITICALITY, MULTIFRACTALS, & INTERMITTENT TURBULENCE IN EARTH'S MAGNETOSPHERE
 02/24/2000 - 02/28/2002 FY01: \$46,637 Total: \$88,637
Prin. Invest.: T CHANG
Tech. Officer: GSFC/J SHARBER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9120 MASSACHUSETTS INST OF TECHNOLOGY 5641
 NEW ENERGETIC RADIO PULSARS: AN ARCHIVAL X-RAY SURVEY - ADP 99
 02/29/2000 - 02/28/2002 FY01: \$0 Total: \$29,166
Prin. Invest.: V M KASPI, NONE
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 41 - AERONAUTICAL ENGR

NAG 5 9135 MASSACHUSETTS INST OF TECHNOLOGY 5642
 RXTE OBSERVATIONS OF BLACK HOLE CANDIDATES ADP99
 02/28/2000 - 06/30/2002 FY01: \$0 Total: \$30,000
Prin. Invest.: W H LEWIN
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9143 MASSACHUSETTS INST OF TECHNOLOGY 5643
 APPLICATIONS OF AIRBORNE & ORBITAL LASER ALTIMETRY FOR COASTAL
 PROCESSES & MARINE STATIC GRAVITY
 02/29/2000 - 02/28/2002 FY01: \$79,936 Total: \$126,436
Prin. Invest.: M T ZURBER
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 9164 MASSACHUSETTS INST OF TECHNOLOGY 5644
 LONG-TERM MONITORING OF ANOMALOUS X-RAY PULSARS WITH RXTE -
 ADP 99
 03/08/2000 - 03/14/2002 FY01: \$0 Total: \$58,265
Prin. Invest.: D CHARKRABARTY
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 41 - AERONAUTICAL ENGR

NAG 5 9184 MASSACHUSETTS INST OF TECHNOLOGY 5645
 ACCRETING NEUTRON STARS AS ASTROPHYSICAL LABORATORIES
 LTSA-99
 03/07/2000 - 03/14/2002 FY01: \$122,730 Total: \$240,744
Prin. Invest.: D CHARKRABARTY
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 41 - AERONAUTICAL ENGR

NAG 5 9185 MASSACHUSETTS INST OF TECHNOLOGY 5646
 TIMING THE MILLISECOND X-RAY PULSAR WITH RXTE - ADP - 99
 03/07/2000 - 03/14/2002 FY01: \$0 Total: \$58,866
Prin. Invest.: D CHAKRABARTY
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 41 - AERONAUTICAL ENGR

NAG 5 9189 MASSACHUSETTS INST OF TECHNOLOGY 5647
 X-RAY PULSAR STUDIES WITH RXTE - ADP 99
 03/08/2000 - 03/14/2002 FY01: \$20,000 Total: \$40,000
Prin. Invest.: S RAPPAPORT
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 41 - AERONAUTICAL ENGR

NAG 5 9211 MASSACHUSETTS INST OF TECHNOLOGY 5648
 A SEARCH FOR EVIDENCE OF NON-THERMAL EMISSION FROM THE
 SUPERNOVA REMNANTS 37A/B (ADP 99)
 03/09/2000 - 03/14/2002 FY01: \$0 Total: \$7,709
Prin. Invest.: G ALLEN
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 41 - AERONAUTICAL ENGR

NAG 5 9235 MASSACHUSETTS INST OF TECHNOLOGY 5649
 A MEASUREMENT OF THE NON-THERMAL X-RAY EMISSION OF THE
 SUPERNOVA REMNANT J1713.7-3946 - ADP 99
 03/09/2000 - 03/14/2002 FY01: \$0 Total: \$8,769
Prin. Invest.: G ALLEN
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 41 - AERONAUTICAL ENGR

NAG 5 9237 MASSACHUSETTS INST OF TECHNOLOGY 5650
 A STUDY OF THE NON-THERMAL X-RAY EMISSION OF SHELL-TYPE
 SUPERNOVA REMNANTS - LTSA99
 03/09/2000 - 03/14/2002 FY01: \$104,200 Total: \$204,300
Prin. Invest.: G ALLEN
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9445 MASSACHUSETTS INST OF TECHNOLOGY 5651
 CARBONATE PLATFORM DEVELOPMENT & STROMATOLITE MORPHOGENESIS:
 CONSTRAINTS ON ENVIRONMENTAL & BIOLOGIC
 05/01/2000 - 04/30/2001 FY01: \$0 Total: \$117,750
Prin. Invest.: J GROTZINGER
Tech. Officer: GSFC/M MEYER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9525 MASSACHUSETTS INST OF TECHNOLOGY 5652
 PHASE EQUILIBRIUM INVESTIGATIONS OF PLANETARY MATERIALS
 04/28/2000 - 06/30/2002 FY01: \$61,000 Total: \$122,000
Prin. Invest.: T L GROVE, NONE
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 9616 MASSACHUSETTS INST OF TECHNOLOGY 5653
 SOLAR WIND ACCELERATION, HEATING, & EVOLUTION WITH WAVE-PAR-
 TICLE
 05/23/2000 - 04/30/2002 FY01: \$69,144 Total: \$107,441
Prin. Invest.: T CHANG
Tech. Officer: GSFC/W J WAGNER
CASE Category: 13 - PHYSICS

NAG 5 9622 MASSACHUSETTS INST OF TECHNOLOGY 5654
 DEVELOPMENT OF 25-YEAR IMP 8 BOW SHOCK CROSSING LIST, INGES-
 TION OF THIS LIST TO CDWEB, & ENHANCEMENT
 05/19/2000 - 05/31/2002 FY01: \$21,849 Total: \$42,764
Prin. Invest.: K PAULARENA
Tech. Officer: GSFC/J KING
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 9637 MASSACHUSETTS INST OF TECHNOLOGY 5655
 THE USE OF TRMM LIS & GEOSTATIONARY IR DATA TO STUDY LAND-
 OCEAN DIFFERENCES IN CONVECTION & THEIR RE
 07/07/2000 - 11/30/2001 FY01: \$92,396 Total: \$143,286
Prin. Invest.: E R WILLIAMS
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9640 MASSACHUSETTS INST OF TECHNOLOGY 5656
 APPLICATIONS OF TRMM PRODUCTS IN HYDROLOGIC STUDIES OVER THE
 AMAZON REGION
 07/07/2000 - 11/30/2001 FY01: \$307,000 Total: \$446,131
Prin. Invest.: R L BRAS
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9763 MASSACHUSETTS INST OF TECHNOLOGY 5657
 OPTICAL INTERFEROMETER STUDIES OF OTHER PLANETARY SYSTEMS
 06/27/2000 - 06/30/2002 FY01: \$0 Total: \$70,000
Prin. Invest.: B F BURKE
Tech. Officer: GSFC/P CRANE
CASE Category: 11 - ASTRONOMY

NAG 5 9962 MASSACHUSETTS INST OF TECHNOLOGY 5658
 DISENTANGLING X-RAY EMISSION PROCESSES IN VELA-LIKE PULSARS
 09/22/2000 - 09/30/2002 FY01: \$16,000 Total: \$36,625
Prin. Invest.: B M GAENSLER
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10008 MASSACHUSETTS INST OF TECHNOLOGY 5659
 STUDYING THE INTERGALACTIC MEDIUM THROUGH X-RAY ABSORPTION
 LINES
 09/25/2000 – 09/30/2002 FY01: \$16,500 Total: \$44,500
Prin. Invest.: C R CANIZARES
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 – ASTRONOMY

NAG 5 10107 MASSACHUSETTS INST OF TECHNOLOGY 5660
 XMM OBSERVATIONS OF LOW MASS GROUPS
 12/01/2000 – 11/30/2001 FY01: \$28,000 Total: \$28,000
Prin. Invest.: D S DAVIS
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 – ASTRONOMY

NAG 5 10192 MASSACHUSETTS INST OF TECHNOLOGY 5661
 XMM OBSERVATIONS OF BLACK-HOLE X-RAY BINARIES IN OUTBURST
 12/28/2000 – 12/31/2001 FY01: \$22,900 Total: \$22,900
Prin. Invest.: W LEWIN
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 – ASTRONOMY

NAG 5 10328 MASSACHUSETTS INST OF TECHNOLOGY 5662
 COMPOSITION OF HYDRATED M AND E-CLASS ASTEROIDS: A SEARCH
 FOR ANALOGS
 01/26/2001 – 01/31/2002 FY01: \$23,000 Total: \$23,000
Prin. Invest.: A RIVKIN
Tech. Officer: GSFC/D SENKE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10389 MASSACHUSETTS INST OF TECHNOLOGY 5663
 RELIEF EVOLUTION IN TECTONICALLY ACTIVE MOUNTAIN RANGERS
 02/08/2001 – 02/14/2002 FY01: \$50,049 Total: \$50,049
Prin. Invest.: K X WHIPPLE
Tech. Officer: GSFC/H V FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 10440 MASSACHUSETTS INST OF TECHNOLOGY 5664
 AGENT BASED SOFTWARE FOR THE AUTONOMOUS CONTROL OF FORMA-
 TION FLYING SPACECRAFT PROPOSAL 864
 03/07/2001 – 03/14/2002 FY01: \$366,548 Total: \$366,548
Prin. Invest.: D P HOW
Tech. Officer: GSFC/N J DENNEHY
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 5 10444 MASSACHUSETTS INST OF TECHNOLOGY 5665
 STELLAR OCCULTATION STUDIES OF SMALL BODIES IN THE OUTER SOLAR
 SYSTEM
 02/20/2001 – 01/31/2002 FY01: \$133,900 Total: \$133,900
Prin. Invest.: J ELLIOT
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 – ASTRONOMY

NAG 5 10522 MASSACHUSETTS INST OF TECHNOLOGY 5666
 PHASE EQUILIBRIUM AND KINETIC INVESTIGATIONS OF PLANETARY
 MATERIALS
 03/03/2001 – 04/01/2001 FY01: \$0 Total: \$0
Prin. Invest.: D L GROVE, NONE
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 10604 MASSACHUSETTS INST OF TECHNOLOGY 5667
 WATER OF HYDRATION ON C-CLASS ASTEROIDS: DOES SIZE MATTER
 03/15/2001 – 03/14/2002 FY01: \$35,934 Total: \$35,934
Prin. Invest.: A RIVKIN
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 – ASTRONOMY

NAG 5 10613 MASSACHUSETTS INST OF TECHNOLOGY 5668
 HIGH SENSITIVITY OPTICAL TECHNIQUES FOR ATMOSPHERIC SPECTROSCOPY,
 KINETICS, AND REMOTE SENSING
 03/27/2001 – 03/31/2002 FY01: \$76,121 Total: \$76,121
Prin. Invest.: J I STEINFELD
Tech. Officer: GSFC/M KURYLO
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10684 MASSACHUSETTS INST OF TECHNOLOGY 5669
 DYNAMICS OF LANDSCAPE CHANGE IN RAPIDLY ERODING REGIONS
 03/30/2001 – 03/31/2002 FY01: \$75,313 Total: \$75,313
Prin. Invest.: R L BRAS
Tech. Officer: GSFC/H V FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 10711 MASSACHUSETTS INST OF TECHNOLOGY 5670
 A PARTICLE PHYSICS EXPERIMENT IN SPACE
 04/06/2001 – 03/31/2002 FY01: \$10,000,000 Total: \$10,000,000
Prin. Invest.: S C TING
Tech. Officer: GSFC/M SISTILLI
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10728 MASSACHUSETTS INST OF TECHNOLOGY 5671
 APPLICATION OF EXPERIMENTAL PETROLOGY TO AID IN THE INTERPRETA-
 TION OF THE MARS PATHFINDER ROCK
 04/10/2001 – 04/30/2002 FY01: \$40,000 Total: \$40,000
Prin. Invest.: T GROVE
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 10793 MASSACHUSETTS INST OF TECHNOLOGY 5672
 ATLANTIC OCEAN PROCESSES FROM SUBPOLAR REGIONS TO THE
 SOUTHERN SUBTROPICAL GYRE: MODEL/DATA COMPAR
 04/25/2001 – 10/31/2001 FY01: \$69,010 Total: \$69,010
Prin. Invest.: P RIZZOLI
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 10815 MASSACHUSETTS INST OF TECHNOLOGY 5673
 LOW-MASS X-RAY BINARIES WITH RXTE (ADP 2000)
 05/03/2001 – 05/14/2002 FY01: \$40,171 Total: \$40,171
Prin. Invest.: W H LEWIN
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 10915 MASSACHUSETTS INST OF TECHNOLOGY 5674
 MO&DA FOR THE FARADAY CUP PORTION OF THE WIND SWE EXPERIMENT
 05/21/2001 – 05/31/2002 FY01: \$120,000 Total: \$120,000
Prin. Invest.: A LAZARUS
Tech. Officer: GSFC/K OGILVIE
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 11113 MASSACHUSETTS INST OF TECHNOLOGY 5675
 PLANETARY TOPOGRAPHY AND GRAVITY
 07/18/2001 - 07/31/2002 FY01: \$249,999 Total: \$249,999
Prin. Invest.: M T ZUBER
Tech. Officer: GSFC/D E SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 11268 MASSACHUSETTS INST OF TECHNOLOGY 5676
 SDM VIRTUALNESS PROJECT
 08/17/2001 - 11/30/2002 FY01: \$300,000 Total: \$300,000
Prin. Invest.: J KLEIN
Tech. Officer: GSFC/T MATURO
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 11285 MASSACHUSETTS INST OF TECHNOLOGY 5677
 LARGE-SCALE ATMOSPHERIC TRANSPORT PROCESSES
 08/17/2001 - 08/31/2004 FY01: \$149,675 Total: \$149,675
Prin. Invest.: R A PLUMB
Tech. Officer: GSFC/P DECOLA
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1253 MASSACHUSETTS INST OF TECHNOLOGY 5678
 RESEARCH "APPLICATION OF PARALLEL COMPUTING FOR TWO AND
 THREE D MODELING OF BULK CRYSTAL GROWTH
 06/24/1996 - 06/30/2001 FY01: \$0 Total: \$584,927
Prin. Invest.: R A BROWN
Tech. Officer: MSFC/P DOTY, MSFC/R POWER
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1435 MASSACHUSETTS INST OF TECHNOLOGY 5679
 TOWARDS PRECISION EXPERIMENTS WITH BOSE-EINSTEIN CONDENSATES
 02/03/1998 - 01/31/2003 FY01: \$63,650 Total: \$339,650
Prin. Invest.: W KETTERLE
Tech. Officer: MSFC/D HUBBARD
CASE Category: 13 - PHYSICS

NAG 8 1487 MASSACHUSETTS INST OF TECHNOLOGY 5680
 IDENTIFICATION AND CONTROL OF GRAVITY RELATED DEFECT FORMATION DURING MELT GROWTH OF ELECTROOPTI
 02/13/1998 - 01/31/2002 FY01: \$164,750 Total: \$601,495
Prin. Invest.: A WITT
Tech. Officer: MSFC/M PURVEY
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 8 1524 MASSACHUSETTS INST OF TECHNOLOGY 5681
 DIRECT USE OF SATELLITE REMOTE SENSING IN THE ESTIMATION OF HYDROLOGIC TRANSPORTS
 05/22/1998 - 08/31/2001 FY01: \$0 Total: \$434,701
Prin. Invest.: D ENTEKHABI
Tech. Officer: MSFC/J ARNOLD
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 8 1659 MASSACHUSETTS INST OF TECHNOLOGY 5682
 KINETIC EVOLUTION OF STABLE AND METASTABLE STATES IN PROTEIN SOLUTIONS.
 05/10/2000 - 11/30/2003 FY01: \$104,500 Total: \$164,500
Prin. Invest.: G BENEDEK
Tech. Officer: MSFC/P DOTY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1685 MASSACHUSETTS INST OF TECHNOLOGY 5683
 THE ROLE OF CONVECTION AND GROWTH COMPETITION IN PHASE SELECTION IN MICROGRAVITY
 05/11/2000 - 11/30/2003 FY01: \$167,200 Total: \$252,200
Prin. Invest.: M C FLEMING
Tech. Officer: MSFC/P DOTY
CASE Category: 13 - PHYSICS

NAG 8 1688 MASSACHUSETTS INST OF TECHNOLOGY 5684
 FORCES DURING MANUFACTURE AND ASSEMBLY OF MICROSCALE DISCRETE ELECTRONIC COMPONENTS.
 05/17/2000 - 11/30/2003 FY01: \$74,100 Total: \$162,962
Prin. Invest.: M CIMA
Tech. Officer: MSFC/P DOTY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1689 MASSACHUSETTS INST OF TECHNOLOGY 5685
 FROM OXYGEN GENERATION TO METAL PRODUCTION: IN-SITU RESOURCE UTILIZATION BY MOLTEN OXIDE ELECTROLYSIS
 06/05/2000 - 11/30/2003 FY01: \$85,500 Total: \$125,500
Prin. Invest.: R SADOWAY
Tech. Officer: MSFC/P DOTY
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 8 1768 MASSACHUSETTS INST OF TECHNOLOGY 5686
 INCREMENTAL FUNDING FOR TOWARDS PRECISION EXPERIMENTS WITH BOSE EINSTEIN CONDENSATES II
 05/14/2001 - 05/13/2005 FY01: \$40,000 Total: \$40,000
Prin. Invest.: W KETTERLE
Tech. Officer: MSFC/D HUBBARD
CASE Category: 13 - PHYSICS

NAG 9 836 MASSACHUSETTS INST OF TECHNOLOGY 5687
 MICROGRAVITY TISSUE ENGINEERING
 09/19/1995 - 08/31/2000 FY01: \$0 Total: \$4,371,496
Prin. Invest.: L E FREED
Tech. Officer: JSC/N R PELLIS
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 9 1003 MASSACHUSETTS INST OF TECHNOLOGY 5688
 MICROGRAVITY INVESTIGATION & CREW REACTION IN 0-G
 04/29/1998 - 12/31/2001 FY01: \$0 Total: \$268,557
Prin. Invest.: D J NEWMAN, S BECK
Tech. Officer: JSC/B WOOLFORD
CASE Category: 56 - MEDICL

NAG 9 1004 MASSACHUSETTS INST OF TECHNOLOGY 5689
 ADVANCED DISPLAYS & CONTROLS FOR 6 DOF ORIENTATION
 05/06/1998 - 06/10/2002 FY01: \$90,241 Total: \$543,296
Prin. Invest.: C M OMAN
Tech. Officer: JSC/J DETROVE
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 9 1078 MASSACHUSETTS INST OF TECHNOLOGY 5690
 SPACE STATION HUMAN FACTORS
 01/21/1999 - 01/28/2000 FY01: -\$93 Total: \$22,907
Prin. Invest.: J P CLARKE
Tech. Officer: JSC/H A ALDRIDGE
CASE Category: 49 - ENGINEERING, OTHER

NAG 9 1089 MASSACHUSETTS INST OF TECHNOLOGY 5691
 ROBOTIC TECHNOLOGY AND FUTURE SPACE SUIT DEVELOPMENT
 03/05/1999 - 02/28/2002 FY01: \$249,303 Total: \$562,946
Prin. Invest.: D J NEWMAN
Tech. Officer: JSC/B J WOOLFORD
CASE Category: 41 - AERONAUTICAL ENGR

NAG 9 1224 MASSACHUSETTS INST OF TECHNOLOGY 5692
 FOKKER-PLANCK STUDIES OF HELICON OPERATON-VASIMR E XPERI-
 MENT
 03/23/2000 - 01/31/2002 FY01: \$65,000 Total: \$145,000
Prin. Invest.: K MOLVIG, O V BATISHCHAV
Tech. Officer: JSC/F R CHANG-DIAZ
CASE Category: 13 - PHYSICS

NAS 1 18690 MASSACHUSETTS INST OF TECHNOLOGY 5693
 MID-DECK 0-GRAVITY DYNAMICS EXPERIMENT
 12/06/1988 - 09/30/1999 FY01: -\$133 Total: \$6,063,712
Prin. Invest.: E CROWLEY
Tech. Officer: LARC/L G CLARK, LARC/S M BECK
CASE Category: 42 - ASTRONAUTICAL ENGR

NAS 3 01153 MASSACHUSETTS INST OF TECHNOLOGY 5694
 INTRA ENGINE TRACE SPECIES CHEMISTRY
 05/09/2001 - 08/10/2001 FY01: \$225,000 Total: \$225,000
Prin. Invest.: I A WAITZ
Tech. Officer: GRC/N S LIU
CASE Category: 41 - AERONAUTICAL ENGR

NAS 5 30612 MASSACHUSETTS INST OF TECHNOLOGY 5695
 ALL SKY MONITOR INSTRUMENTS
 12/15/1989 - 11/15/2003 FY01: \$814,000 Total: \$27,357,767
Prin. Invest.: H BRADT
Tech. Officer: GSFC/W DAVIS
CASE Category: 11 - ASTRONOMY

NAS 5 31376 MASSACHUSETTS INST OF TECHNOLOGY 5696
 RECURSIVE ESTIMATION OF GEOGRAPHICAL PRODUCTS WITH AIRS/AMSU
 DATA (EOS INVESTIGATION)
 01/10/1992 - 12/14/2001 FY01: \$260,000 Total: \$1,953,000
Prin. Invest.: D H STAHLIN, P W ROSENKRANZ
Tech. Officer: GSFC/E KREINS
CASE Category: 32 - GEOLOGICAL SCIENCE

NAS 5 31728 MASSACHUSETTS INST OF TECHNOLOGY 5697
 ACQUISITION OF VLBI CORRELATOR
 03/19/1992 - 11/30/2000 FY01: \$0 Total: \$9,022,390
Prin. Invest.: A R WHITNEY
Tech. Officer: GSFC/B WILDES
CASE Category: 32 - GEOLOGICAL SCIENCE

NAS 5 99007 MASSACHUSETTS INST OF TECHNOLOGY 5698
 GLAS SCIENCE TEAM
 12/02/1998 - 12/01/2002 FY01: \$175,000 Total: \$465,000
Prin. Invest.: T A HERRING
Tech. Officer: GSFC/G SMITH
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAS 5 99181 MASSACHUSETTS INST OF TECHNOLOGY 5699
 TRIANA FARADAY CUP.
 03/17/1999 - 01/01/2001 FY01: \$18,632 Total: \$467,083
Prin. Invest.: A J LAZARUS
Tech. Officer: GSFC/K W OGILVIE
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAS 5 99198 MASSACHUSETTS INST OF TECHNOLOGY 5700
 PROVIDE PERSONNEL, FACILITIES, & EQUIPMENT NECESSARY TO SUPPORT
 THE SPACE GEODESY PROGRAM.
 04/23/1999 - 04/22/2004 FY01: \$1,513,595 Total: \$3,942,622
Prin. Invest.: G CARRIGAN
Tech. Officer: GSFC/W WILDES
CASE Category: 31 - ATMOSPHERICSCIENCE

NAS 8 37716 MASSACHUSETTS INST OF TECHNOLOGY 5701
 CONDUCT AN X-RAY IMAGING SPECTROSCOPY SCIENTIFIC INVESTIGA-
 TION
 07/23/1990 - 12/31/1999 FY01: -\$71,800 Total: \$77,956,200
Prin. Invest.: G RICKER
Tech. Officer: MSFC/N B CUMINGS
CASE Category: 11 - ASTRONOMY

NAS 8 38249 MASSACHUSETTS INST OF TECHNOLOGY 5702
 AXAF (HETGS)
 07/13/1990 - 03/01/2002 FY01: \$1,875,000 Total: \$28,623,000
Prin. Invest.: C R CANIZARES
Tech. Officer: MSFC/M E ROSENTHAL
CASE Category: 49 - ENGINEERING, OTHER

NAS 9 00097 MASSACHUSETTS INST OF TECHNOLOGY 5703
 UNIQUE FLIGHT AND BASELINE DATA COLLECTION HARDWARE AND
 DEVELOP
 10/24/2000 - 10/25/2005 FY01: \$774,887 Total: \$774,887
Prin. Invest.: C M OMAN
Tech. Officer: JSC/D K BAUMAN
CASE Category: 59 - LIFE SCIENCE, OTHER

NAS 9 19536 MASSACHUSETTS INST OF TECHNOLOGY 5704
 ROLE OF VISUAL CUES IN SPATIAL ORIENTATION
 03/19/1996 - 09/30/2000 FY01: -\$3,183 Total: \$995,644
Prin. Invest.: C M OMAN
Tech. Officer: SSC/S SAWYER
CASE Category: 56 - MEDICL

NASW 4690 MASSACHUSETTS INST OF TECHNOLOGY 5705
 HIGH ENERGY TRANSIENT EXPERIMENT TO DETERMINEORIGIN & NATURE
 OF GAMMA-RAY BURSTS
 03/30/1992 - 11/29/2002 FY01: \$1,945,105 Total: \$26,192,859
Prin. Invest.: G RICKER
Tech. Officer: HQ/D GILMAN, HQ/L KALUZIENSKI
CASE Category: 13 - PHYSICS

NCC 1 323 MASSACHUSETTS INST OF TECHNOLOGY 5706
 AEROELASTIC ANALYSIS OF ACTIVE TWIST ROTOR SYSTEM FOR
 HELICOPTER VIBRATION REDUCTION
 12/22/1998 - 10/31/2001 FY01: \$35,999 Total: \$180,429
Prin. Invest.: C E CESNIK, N W NAGOOD
Tech. Officer: LARC/M L WILBUR, LARC/W K WILKIE
CASE Category: 41 - AERONAUTICAL ENGR

NCC 1 415 MASSACHUSETTS INST OF TECHNOLOGY 5707
 PHYSICAL PROCESSES INFLUENCING ATMOSPHERIC TRACE CONSTITUENTS MEASURED FROM AIRCRAFT IN TRACE-P (IS NRA)
 09/21/2000 - 06/30/2003 FY01: \$145,791 Total: \$302,433
Prin. Invest.: R E NEWELL
Tech. Officer: LARC/J L RAPER, SR
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 2 570 MASSACHUSETTS INST OF TECHNOLOGY 5708
 PRINCIPAL INVESTIGATOR IN A BOX
 12/29/1988 - 01/31/2001 FY01: \$0 Total: \$2,098,309
Prin. Invest.: L R YOUNG
Tech. Officer: ARC/S LAU, ARC/D A ROSENTHAL
CASE Category: 22 - COMPUTER SCIENCE

NCC 2 985 MASSACHUSETTS INST OF TECHNOLOGY 5709
 AUTOMATED FLUID FEATURE EXTRACTION FROM TRANSIENT SIMULATIONS
 04/01/1997 - 12/31/2000 FY01: -\$2,717 Total: \$169,612
Prin. Invest.: R HAIMES
Tech. Officer: ARC/D L KAO, ARC/A VAZIRI
CASE Category: 22 - COMPUTER SCIENCE

NCC 2 1044 MASSACHUSETTS INST OF TECHNOLOGY 5710
 DRIVING PARAMETERS FOR DISTRIBUTED & CENTRALIZED AIR TRANSPORTATION ARCHITECTURES
 06/24/1998 - 09/30/2000 FY01: \$0 Total: \$142,039
Prin. Invest.: E FERON
Tech. Officer: ARC/B SRIDHAR, ARC/K BILIMORIA
CASE Category: 41 - AERONAUTICAL ENGR

NCC 2 1121 MASSACHUSETTS INST OF TECHNOLOGY 5711
 MARSCAPE
 05/21/1999 - 12/31/2001 FY01: \$0 Total: \$150,000
Prin. Invest.: J K SALISBURY
Tech. Officer: ARC/H THOMAS
CASE Category: 46 - MECHANICAL ENGR

NCC 2 1147 MASSACHUSETTS INST OF TECHNOLOGY 5712
 IMPLEMENTATION ISSUES FOR DEPARTURE PLANNING SYSTEMS
 12/07/1999 - 11/30/2001 FY01: \$249,714 Total: \$490,247
Prin. Invest.: E FERON, R J HANSMAN
Tech. Officer: ARC/S ATKINS
CASE Category: 41 - AERONAUTICAL ENGR

NCC 2 1150 MASSACHUSETTS INST OF TECHNOLOGY 5713
 SAFETY METRICS FOR HUMAN-COMPUTER CONTROLLED SYSTEM
 12/28/1999 - 12/31/2000 FY01: \$0 Total: \$195,940
Prin. Invest.: N LEVESON
Tech. Officer: ARC/S YASSINI
CASE Category: 22 - COMPUTER SCIENCE

NCC 2 1209 MASSACHUSETTS INST OF TECHNOLOGY 5714
 DISTRIBUTED & CENTRALIZED CONFLICT MANAGEMENT UNDER TRAFFIC FLOW MANAGEMENT CONSTRAINTS
 12/04/2000 - 11/14/2001 FY01: \$63,957 Total: \$63,957
Prin. Invest.: E FERON
Tech. Officer: ARC/K BILIMORIA, ARC/B SRIDHAR
CASE Category: 41 - AERONAUTICAL ENGR

NCC 2 1223 MASSACHUSETTS INST OF TECHNOLOGY 5715
 APPROACHES TO HUMAN CENTERED SOFTWARE DEVELOPMENT
 03/23/2001 - 02/28/2002 FY01: \$182,000 Total: \$182,000
Prin. Invest.: N G LEVESON
Tech. Officer: ARC/P M JONES, ARC/M SHAFTO
CASE Category: 22 - COMPUTER SCIENCE

NCC 2 1235 MASSACHUSETTS INST OF TECHNOLOGY 5716
 A HYBRID DISCRETE/CONTINUOUS SYSTEM FOR HEALTH MANAGEMENT
 04/03/2001 - 02/28/2002 FY01: \$235,000 Total: \$235,000
Prin. Invest.: B C WILLIAMS
Tech. Officer: ARC/R MORRIS, ARC/D J CLANCY
CASE Category: 22 - COMPUTER SCIENCE

NCC 2 1237 MASSACHUSETTS INST OF TECHNOLOGY 5717
 MULTI-RESOLUTION PLANNING IN LARGE UNCERTAIN ENVIRONMENTS
 04/06/2001 - 02/28/2002 FY01: \$129,000 Total: \$129,000
Prin. Invest.: L KAEHLING
Tech. Officer: ARC/R MORRIS, ARC/D CLANCY
CASE Category: 22 - COMPUTER SCIENCE

NCC 2 1269 MASSACHUSETTS INST OF TECHNOLOGY 5718
 USING CAPRI WITHIN NASA'S INTELLIGENT SYNTHESIS ENVIRONMENT
 06/01/2001 - 09/30/2001 FY01: \$74,975 Total: \$74,975
Prin. Invest.: R HAIMES
Tech. Officer: ARC/J REUTHER, ARC/D KONTINOS
CASE Category: 22 - COMPUTER SCIENCE

NCC 3 610 MASSACHUSETTS INST OF TECHNOLOGY 5719
 THE EXTENSIONAL RHEOLOGY OF NON-NEWTONIAN MATERIAL EXTENSIONAL RHEOLOGY EXPERIMENT (ERE)
 04/21/1998 - 02/09/2003 FY01: \$190,000 Total: \$740,000
Prin. Invest.: G H MCKINLEY
Tech. Officer: GRC/N R HALL
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NCC 3 632 MASSACHUSETTS INST OF TECHNOLOGY 5720
 MIT ENGINEERING INTERSHIP PROGRAM
 06/30/1998 - 06/20/2002 FY01: \$36,645 Total: \$154,645
Prin. Invest.: I A WATZ
Tech. Officer: GRC/L POVINELLI
CASE Category: 41 - AERONAUTICAL ENGR

NCC 3 875 MASSACHUSETTS INST OF TECHNOLOGY 5721
 HIGH SPECIFIC IMPULSE HALL THRUSTERS
 03/21/2001 - 03/31/2004 FY01: \$401,796 Total: \$401,796
Prin. Invest.: D MARTINEZ-SANCHEZ
Tech. Officer: GRC/S OLESON
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NCC 4 123 MASSACHUSETTS INST OF TECHNOLOGY 5722
 DESIGN & EVALUATION OF FLIGHT CONTROL SYSTEMS
 04/28/1999 - 05/31/2001 FY01: \$0 Total: \$83,321
Prin. Invest.: J D PADUANO
Tech. Officer: DFRC/T MAINE, DFRC/J BURKEN
CASE Category: 41 - AERONAUTICAL ENGR

NCC 5 244 MASSACHUSETTS INST OF TECHNOLOGY 5723
 BIOGEOCHEMICAL CYCLES USING MODELS AND DATA
 10/24/1997 - 06/30/2001 FY01: \$0 Total: \$727,000
Prin. Invest.: J MARSHALL
Tech. Officer: GSFC/J MARRA
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 5 330 MASSACHUSETTS INST OF TECHNOLOGY 5724
 DEVELOPMENT OF ACCURATE STRUCTURE FOR MOUNTING AND ALIGNING
 THIN FOILX-RAY MIRRORS.
 05/07/1998 - 11/14/2000 FY01: \$0 Total: \$168,177
Prin. Invest.: M SCHATTENBURG *Prin. Invest.:* NONE
Tech. Officer: GSFC/R PETRE
CASE Category: 11 - ASTRONOMY

NCC 5 416 MASSACHUSETTS INST OF TECHNOLOGY 5725
 SOIL MOISTURE DATA ASSIMILATION FOR CONTINENTAL- SCALE LAND
 SURFACE HYDROLOGY APPLICATIONS
 08/04/1999 - 07/31/2002 FY01: \$82,472 Total: \$216,639
Prin. Invest.: D MCLAUGHLIN
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 5 525 MASSACHUSETTS INST OF TECHNOLOGY 5726
 FABRICATION AND METROLOGY OF HIGH-PRECISION FOIL MIRROR
 MOUNTING ELEMENT CONSTELLATION X-PROPOSAL
 01/08/2001 - 01/14/2002 FY01: \$105,000 Total: \$105,000
Prin. Invest.: M SCHATTENBURG
Tech. Officer: GSFC/R PETRE
CASE Category: 11 - ASTRONOMY

NCC 8 174 MASSACHUSETTS INST OF TECHNOLOGY 5727
 R/S MICROGRAVITY TISSUE ENGINEERING
 03/31/1999 - 11/30/2002 FY01: \$853,100 Total: \$2,339,763
Prin. Invest.: L FREED
Tech. Officer: JSC/N R PELLIS
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NGT 3 52360 MASSACHUSETTS INST OF TECHNOLOGY 5728
 GRADUATE STUDENT RESEARCHER PROGRAM GRADUATE STUDENT
 RESEARCHER PROGRAM
 07/15/1999 - 06/30/2001 FY01: \$0 Total: \$44,000
Prin. Invest.: G H MCKINLEY
Tech. Officer: GRC/F J MONTEGANI
CASE Category: 49 - ENGINEERING, OTHER

NGT 5 30188 MASSACHUSETTS INST OF TECHNOLOGY 5729
 THE IMPACT OF GLACIAL EROSION ON THE RELIEF STRUCTURE OF
 MOUNTAIN BELTS STUDENT: SIMON BROCKLEHURS
 08/19/1999 - 08/31/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: K X WHIPPLE
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30189 MASSACHUSETTS INST OF TECHNOLOGY 5730
 TEMPORAL VARIABILITY OF AIR - SEA GAS FLUXES: ESTIMATION &
 INCORPORATION INTO AN INVERSE MODEL OF
 08/18/1999 - 08/31/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: J MARSHALL
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30190 MASSACHUSETTS INST OF TECHNOLOGY 5731
 ADJOINT SENSITIVITY ANALYSIS OF THE COUPLED LAND- ATMOSPHERE
 SYSTEM/STUDENT: STEVEN A. MARGULIS
 08/19/1999 - 08/31/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: D ENTEKHABI
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30200 MASSACHUSETTS INST OF TECHNOLOGY 5732
 AN INVESTIGATION OF STRATOSPHERIC TRANSPORT USING THE "LEAKY
 PIPE" MODEL STUDENT: JESSICA NEU
 08/24/1999 - 08/31/2000 FY01: -\$1 Total: \$21,999
Prin. Invest.: R A PLUMB
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30212 MASSACHUSETTS INST OF TECHNOLOGY 5733
 THE SIGNATURE OF CLIMATIC & TECTONIC PROCESSES IN ALLUVIAL
 FANS: A NUMERICAL MODELING & REMOTE SENSING
 08/20/1999 - 08/31/2002 FY01: \$0 Total: \$44,000
Prin. Invest.: R L BRAS
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30334 MASSACHUSETTS INST OF TECHNOLOGY 5734
 MULTIPHASE AND HETEROGENEOUS PROCESSES IN ATMOSPHERIC
 CHEMISTRY
 08/17/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: B TROUT
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30337 MASSACHUSETTS INST OF TECHNOLOGY 5735
 DYNAMICS & SCALES OF VARIABILITY IN THE LABRADOR SEA: STATE
 ESTIMATION USING AN EDDY-RESOLVING
 08/21/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: C WUNSCH
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30339 MASSACHUSETTS INST OF TECHNOLOGY 5736
 EFFECTS OF VEGETATION DYNAMICS ON ARROYO & GULLY EVOLUTION &
 SUCEPTABILITY TO CLIMATE CHANGE
 08/21/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: R BRAS
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 40048 MASSACHUSETTS INST OF TECHNOLOGY 5737
 NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
 01/24/1997 - 01/31/2001 FY01: \$0 Total: \$1,839,999
Prin. Invest.: L R YOUNG
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40075 MASSACHUSETTS INST OF TECHNOLOGY 5738
 MASSACHUSETTS SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
 02/09/2001 - 01/31/2002 FY01: \$475,000 Total: \$475,000
Prin. Invest.: L YOUNG
Tech. Officer: GSFC/D D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50302 MASSACHUSETTS INST OF TECHNOLOGY 5739
 COMBUSTION SYNTHESIS OF FULLERENES AND FULLERENIC NANOS-
 STRUCTURES IN MICROGRAVITY/STUDENT: ANISH GOEL
 07/06/2000 - 06/30/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: J B HOWARD
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50306 MASSACHUSETTS INST OF TECHNOLOGY 5740
 THE KINETICS OF COMPETITIVE GROWTH DURING RAPID SOLIDIFICATION
 OF TERNARY STEEL ALLOYS/STUDENT JOA
 07/06/2000 - 06/30/2001 FY01: \$0 Total: \$22,000
Prin. Invest.: M FLEMINGS
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 8 52860 MASSACHUSETTS INST OF TECHNOLOGY 5741
 CHARACTERIZATION OF THERMAL SUBSYSTEMS FOR A MICROGRAVITY
 BRIDGMAN CRYSTAL GROWTH FURNACE
 07/23/1998 - 08/13/2000 FY01: -\$6,667 Total: \$0
Prin. Invest.: A F WITT
Tech. Officer: MSFC/J F DOWDY
CASE Category: 47 - METAL & MATERIALS ENGR

NGT 8 52880 MASSACHUSETTS INST OF TECHNOLOGY 5742
 IDENTIFICATION AND CONTROL OF GRAVITY RELATED DEFECT FORMA-
 TION DURING MELT GROWTH
 09/09/1999 - 06/30/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: A WITT
Tech. Officer: MSFC/J DOWDY
CASE Category: 46 - MECHANICAL ENGR

NGT 8 52892 MASSACHUSETTS INST OF TECHNOLOGY 5743
 BALANCE OF PLANT DESIGN AND ANALYSIS FOR SPACE NUCLEAR POWER
 OPTIONS
 07/11/2000 - 06/30/2003 FY01: \$0 Total: \$0
Prin. Invest.: M MARTINEZ-SANCHEZ
Tech. Officer: MSFC/S NASH-STEVENSON
CASE Category: 41 - AERONAUTICAL ENGR

NAG 5 8635 MT HOLYOKE COLLEGE 5744
 CO2 AND CH4 EXCHANGE IN NORTHERN PEATLANDS
 07/07/1999 - 06/30/2002 FY01: \$91,444 Total: \$345,781
Prin. Invest.: J L BUBIER
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10238 MT HOLYOKE COLLEGE 5745
 SUMMER MATH NASA SCHOLARS PROGRAM
 01/04/2001 - 12/31/2001 FY01: \$80,000 Total: \$80,000
Prin. Invest.: J MORROW
Tech. Officer: GSFC/CHOLLINGSWORTH
CASE Category: 29 - MATH/COMPUTER SCI, OTHER

NAG 5 10424 MT HOLYOKE COLLEGE 5746
 SYNCHROTRON CHARACTERIZATION OF HYDROGEN & FERRIC IRON IN
 MARTIAN METEORITES
 02/15/2001 - 02/28/2002 FY01: \$34,000 Total: \$34,000
Prin. Invest.: D DYAR
Tech. Officer: GSFC/J BOYCE
CASE Category: 12 - CHEMISTRY

NAG 8 1254 NORTHEASTERN UNIV 5747
 THE ROLE OF DYNAMIC NUCLEATION AT MOVING BOUNDRIES IN PHASE
 AND MICROSTRUCTURE SELECTION
 05/10/1996 - 05/09/2001 FY01: \$0 Total: \$600,000
Prin. Invest.: A KARMA, R TRIVEDI
Tech. Officer: MSFC/P DOTY, MSFC/R POWER
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1485 NORTHEASTERN UNIV 5748
 R/S MODELING OF MACROSCOPIC/MICROSCOPIC TRANSPORT AND
 GROWTH PHENOMENA IN ZEOLITE CRYSTALS UNDER
 04/27/1998 - 05/31/2001 FY01: \$16,150 Total: \$321,483
Prin. Invest.: A SACCO
Tech. Officer: MSFC/C TALLEY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1668 NORTHEASTERN UNIV 5749
 PHASE FIELD SIMULATIONS OF DENDRITIC GROWTH AT LOW UNDER-
 COOLING: CONFRONTING THEORY AND EXPERIMENT.
 05/23/2000 - 11/30/2003 FY01: \$85,500 Total: \$120,500
Prin. Invest.: A KARMA
Tech. Officer: MSFC/P DOTY
CASE Category: 59 - LIFE SCIENCE, OTHER

NCC 8 139 NORTHEASTERN UNIV 5750
 RESEARCH "CENTER FOR ADVANCED MICROGRAVITY MATERIALS PROC-
 ESSING (CAMMP)"
 06/27/1997 - 10/31/2001 FY01: \$2,645,000 Total: \$8,913,655
Prin. Invest.: A SACCO
Tech. Officer: MSFC/M NALL
CASE Category: 49 - ENGINEERING, OTHER

NGT 5 122 NORTHEASTERN UNIV 5751
 IMAGE PROCESSING TECHNIQUES FOR SATELLITE DATA USING RECONFI-
 GURABLE TECHNOLOGY/STUDENT: HEATHER Q
 07/09/2001 - 09/14/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: M LEESER
Tech. Officer: GSFC/M S BURRELL
CASE Category: 29 - MATH/COMPUTER SCI, OTHER

NAG 3 2563 TUFTS UNIV 5752
 A SOLID STATE LI-ION BATTERY WITH A CONDUCTION POLYMER ANODE
 03/13/2001 - 04/30/2002 FY01: \$58,333 Total: \$58,333
Prin. Invest.: D B GOLDNER
Tech. Officer: GRC/N HAGEDORN
CASE Category: 12 - CHEMISTRY

NAG 5 8115 TUFTS UNIV 5753
 VLA-SOHO OBSERVATIONS OF BLINKERS AND CME'S
 01/25/1999 - 01/31/2001 FY01: \$0 Total: \$112,000
Prin. Invest.: K R LANG
Tech. Officer: GSFC/J GURMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 9725 TUFTS UNIV 5754
 VERY LARGE ARRAY OBSERVATIONS IN SUPPORT OF HESSI
 07/06/2000 - 07/14/2001 FY01: \$0 Total: \$35,000
Prin. Invest.: K R LANG
Tech. Officer: GSFC/W J WAGNER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10350 TUFTS UNIV 5755
 NASA'S COSMOS. FULLY FUNDS YEAR 1 OF 3
 02/06/2001 – 02/14/2002 FY01: \$40,000 Total: \$40,000
Prin. Invest.: K R LANG
Tech. Officer: GSFC/P E HUNTER
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 8 1311 TUFTS UNIV 5756
 JOVE RESEARCH
 01/21/1997 – 08/31/2000 FY01: \$0 Total: \$55,000
Prin. Invest.: K P LENTL
Tech. Officer: MSFC/J F DOWDY, MSFC/J R PRUITT
CASE Category: 22 – COMPUTER SCIENCE

NAG 8 1480 TUFTS UNIV 5757
 STUDY OF DEVELOPMENT OF POLYMER STRUCTURE IN MICROGRAVITY
 USING ELLIPSOMETRY
 02/27/1998 – 01/31/2002 FY01: \$61,750 Total: \$264,720
Prin. Invest.: P CEBE
Tech. Officer: MSFC/P M DOTY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1699 TUFTS UNIV 5758
 RESEARCH STUDY HIERARCHICAL ASSEMBLY OF COLLAGEN
 06/05/2000 – 11/30/2003 FY01: \$104,500 Total: \$154,500
Prin. Invest.: D L KAPLAN
Tech. Officer: MSFC/P M DOTY
CASE Category: 56 – MEDICL

NAG 9 1182 TUFTS UNIV 5759
 MULTISENSOR ARRAY FOR MONITORING WATER QUALITY ON SPACE-
 CRAFT & PLANETARY HABITATS
 12/20/1999 – 12/19/2002 FY01: \$96,401 Total: \$207,876
Prin. Invest.: S P KOUNAVES
Tech. Officer: JPL/D JAN
CASE Category: 59 – LIFE SCIENCE, OTHER

NCC 3 479 TUFTS UNIV 5760
 DECOUPLING THE ROLE OF INERTIA AND GRAVITY ON PARTICLE DISPERSION
 06/01/1996 – 05/31/2001 FY01: \$0 Total: \$295,860
Prin. Invest.: C ROGERS
Tech. Officer: GRC/T K GLASGOW
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 5 434 TUFTS UNIV 5761
 THE SCIENCE AND ENGINEERING NASA SITE OF REMOTE SENSING
 (SENSORS).
 09/22/1999 – 09/30/2002 FY01: \$115,418 Total: \$299,533
Prin. Invest.: C ROGERS
Tech. Officer: GSFC/R E GABRYS
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 2 1197 UNIV OF MASSACHUSETTS @ WORCESTER 5762
 EFFECTS OF GRAVITY ON CELL MOVEMENT & DEVELOPMENT
 04/02/1998 – 10/31/2001 FY01: \$0 Total: \$502,651
Prin. Invest.: Y L WANG
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 2 1438 UNIV OF MASSACHUSETTS @ WORCESTER 5763
 THE EFFECT OF HYPERGRAVITY ON RETINOIC ACID SIGNALING IN THE
 DEVELOPING EMBRYO
 09/19/2000 – 09/30/2002 FY01: \$147,369 Total: \$245,929
Prin. Invest.: P J MACCAFFERY
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 2 1495 UNIV OF MASSACHUSETTS @ WORCESTER 5764
 EFFECTS OF CHARITY ON THE STRUCTURE AND FUNCTION OF ANIMAL
 CELLS
 07/09/2001 – 06/30/2002 FY01: \$99,039 Total: \$99,039
Prin. Invest.: Y L WANG
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 8 1358 UNIV OF MASSACHUSETTS @ WORCESTER 5765
 R/S MICROGRAVITY AND THE BIOLOGY OF NEURAL STEM CELLS
 06/19/1997 – 11/30/2000 FY01: \$0 Total: \$584,981
Prin. Invest.: W J SCHWARTZ
Tech. Officer: MSFC/S R GONDA
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NAG 9 1356 UNIV OF MASSACHUSETTS @ WORCESTER 5766
 MICROGRAVITY AND THE BIOLOGY OF NEURAL STEM CELLS
 07/27/2001 – 09/30/2004 FY01: \$47,000 Total: \$47,000
Prin. Invest.: W J SCHWARTZ, T M SAVARESE, H PANG LOW
Tech. Officer: JSC/D RISEN
CASE Category: 56 – MEDICL

NGT 5 50374 UNIV OF MASSACHUSETTS @ WORCESTER 5767
 GENETIC MANIPULATION OF CELL ADHESION PROTEINS TO MODIFY
 MECHANICAL RESPONSE AND TISSUE REMODELING
 07/09/2001 – 06/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: L BONASSAR
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 3 2426 UNIV OF MASSACHUSETTS 5768
 PHASE CHANGE IN LOW AND JITTERING GRAVITY ENVIRONMENT
 SIMULATED VIA ELECTROMAGNETIC FIELD
 05/19/2000 – 11/30/2003 FY01: \$59,882 Total: \$100,694
Prin. Invest.: D CHARMCHI
Tech. Officer: GRC/H DEGROH
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 8145 UNIV OF MASSACHUSETTS 5769
 AUTOMATED PROCESSING OF ISIS TOPSIDE IONOGRAMS INTO ELECTRON
 DENSITY PROFILES
 02/04/1999 – 12/31/2001 FY01: \$65,200 Total: \$391,162
Prin. Invest.: B REINISCH
Tech. Officer: GSFC/J BREDEKAMP
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 9611 UNIV OF MASSACHUSETTS 5770
 HALFWIDTHS & LINE SHIFTS OF WATER VAPOR TRANSITION IN THE 0.7 UM
 REGION
 05/22/2000 – 05/31/2001 FY01: \$0 Total: \$20,000
Prin. Invest.: R GAMACHE
Tech. Officer: GSFC/D STARR
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 11064 UNIV OF MASSACHUSETTS 5771
 THEORY IN SUPPORT OF LABORATORY SPECTROSCOPY FOR AIRS, TES
 AND HIRDLS
 06/28/2001 - 06/30/2002 FY01: \$25,157 Total: \$25,157
Prin. Invest.: R R GAMACHE
Tech. Officer: GSFC/D STARR
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 1 1022 UNIV OF MASSACHUSETTS - AMHERST 5772
 GROUND-BASED MILLIMETER-WAVE MEASUREMENT OF OZONE IN THE
 MIDDLE ATMOSPHERE
 06/19/1989 - 12/31/2000 FY01: \$0 Total: \$1,526,585
Prin. Invest.: A D PARRISH
Tech. Officer: LARC/L E DEEVER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 2 1375 UNIV OF MASSACHUSETTS - AMHERST 5773
 MICROGRAVITY EFFECTS ON SEED DEVELOPMENT AND MATURATION
 08/20/1999 - 08/31/2002 FY01: \$118,900 Total: \$373,422
Prin. Invest.: M E MUSGRAVE
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 2 1394 UNIV OF MASSACHUSETTS - AMHERST 5774
 ON BOARD AUTONOMY FOR ROVERS
 02/07/2000 - 01/31/2002 FY01: \$48,320 Total: \$94,780
Prin. Invest.: S ZILBERSTEIN
Tech. Officer: ARC/J BRESINA
CASE Category: 22 - COMPUTER SCIENCE

NAG 3 2452 UNIV OF MASSACHUSETTS - AMHERST 5775
 EMBEDDED SENSORS FOR CONDITION MONITORING OF HELICOPTER
 GEARBOXES PROPOSAL #100-1355
 06/07/2000 - 09/30/2002 FY01: \$82,776 Total: \$122,766
Prin. Invest.: D DANAI
Tech. Officer: GRC/D LEWICKI
CASE Category: 46 - MECHANICAL ENGR

NAG 5 3922 UNIV OF MASSACHUSETTS - AMHERST 5776
 ORIGIN OF QUASAR ABSORPTION LINES IN A COSMOLOGICAL
 03/24/1997 - 03/31/2001 FY01: \$0 Total: \$120,000
Prin. Invest.: N KATZ
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 4064 UNIV OF MASSACHUSETTS - AMHERST 5777
 A THEORETICAL STUDY OF PROCESSES DRIVING THE FORMATION
 03/18/1997 - 03/31/2001 FY01: \$0 Total: \$151,330
Prin. Invest.: N KATZ
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 4272 UNIV OF MASSACHUSETTS - AMHERST 5778
 A CRYOGENIC FREQUENCY MULTIPLIER CHAIN FOR 1000 GHz
 04/18/1997 - 12/31/2000 FY01: \$0 Total: \$227,684
Prin. Invest.: D R ERICKSON
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 - ASTRONOMY

NAG 5 4373 UNIV OF MASSACHUSETTS - AMHERST 5779
 PLANETARY, TECTONICS, AREAL GEOLOGY, AND GEOLOGICAL
 04/25/1997 - 01/31/2002 FY01: \$43,100 Total: \$207,145
Prin. Invest.: D E MCGILL
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 4652 UNIV OF MASSACHUSETTS - AMHERST 5780
 SHOCK AND THERMAL HISTORY OF IRON AND CHONDRITIC METALS
 06/11/1997 - 02/28/2002 FY01: \$0 Total: \$522,000
Prin. Invest.: D I GOLDSTEIN
Tech. Officer: GSFC/D NAVA
CASE Category: 11 - ASTRONOMY

NAG 5 4999 UNIV OF MASSACHUSETTS - AMHERST 5781
 STRUCTURAL AND GEOMORPHIC EVOLUTION OF THE MARTIAN
 07/24/1997 - 07/14/2001 FY01: \$0 Total: \$121,184
Prin. Invest.: G MCGILL
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 6161 UNIV OF MASSACHUSETTS - AMHERST 5782
 UMASS PLANET EARTH EDUCATION PROGRAMS
 08/01/1997 - 10/31/2000 FY01: \$0 Total: \$60,000
Prin. Invest.: M STERNHEIM
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6612 UNIV OF MASSACHUSETTS - AMHERST 5783
 MILLIMETER-WAVE AND RADIO STUDIES OF SOLAR SYSTEM OBJECTS
 02/12/1998 - 12/31/1999 FY01: -\$74,107 Total: \$74,139
Prin. Invest.: F SCHLOERB
Tech. Officer: GSFC/T MORGAN
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 6701 UNIV OF MASSACHUSETTS - AMHERST 5784
 ENVIRONMENTAL EVOLUTION. LIFE'S EFFECTS ON THE ARCHAEAN AND
 PROTEROZOIC EARTH: AN INTEGRATED RESEARCH
 12/04/1997 - 01/31/2001 FY01: \$0 Total: \$256,225
Prin. Invest.: L MARGULIS
Tech. Officer: GSFC/M MEYER
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 5 8184 UNIV OF MASSACHUSETTS - AMHERST 5785
 MARTIAN POLYGONAL TERRAIN: TESTS FOR SEDIMENTARY ORIGIN OF
 DEPOSITS
 02/16/1999 - 03/14/2002 FY01: \$17,000 Total: \$51,300
Prin. Invest.: G E MCGILL
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8197 UNIV OF MASSACHUSETTS - AMHERST 5786
 SCALABLE PARALLEL STATISTICAL INFERENCE AND MODEL COMPARISON
 USING LARGE DATABASES
 02/04/1999 - 01/31/2002 FY01: \$230,000 Total: \$685,067
Prin. Invest.: M WEIENBERG
Tech. Officer: GSFC/J BREDEKAMP
CASE Category: 11 - ASTRONOMY

NAG 5 8718 UNIV OF MASSACHUSETTS - AMHERST 5787
 BOUNDARY CONDITIONS FOR THE PALEOENVIRONMENT: THE CHEMISTRY
 OF DENSE INTERSTELLAR CLOUDS & COMETS
 07/29/1999 - 10/14/2001 FY01: \$80,000 Total: \$159,277
Prin. Invest.: W M IRVINE
Tech. Officer: GSFC/M MEYER
CASE Category: 11 - ASTRONOMY

NAG 5 8909 UNIV OF MASSACHUSETTS - AMHERST 5788
 STRUCTURAL AND GEOMORPHIC EVOLUTION OF THE MARTIAN CRUST
 01/04/2000 - 07/14/2002 FY01: \$40,400 Total: \$82,081
Prin. Invest.: G E MCGILL, NONE
Tech. Officer: GSFC/J GRANT
CASE Category: 11 - ASTRONOMY

NAG 5 8999 UNIV OF MASSACHUSETTS - AMHERST 5789
 THE HOT INTERSTELLAR MEDIUM (LTSA)
 02/03/2000 - 01/31/2002 FY01: \$104,000 Total: \$205,886
Prin. Invest.: Q WANG
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9429 UNIV OF MASSACHUSETTS - AMHERST 5790
 X-RAY SOURCE POPULATION IN NEARBY DISK GALAXIES- ADP-99
 04/11/2000 - 04/14/2002 FY01: \$52,922 Total: \$99,684
Prin. Invest.: Q WANG
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9630 UNIV OF MASSACHUSETTS - AMHERST 5791
 DUAL POL DUAL FREQUENCY ANTENNA ELEMENTS FOR INTEG RATED
 SENSOR MODULES.
 05/25/2000 - 04/30/2001 FY01: \$0 Total: \$59,772
Prin. Invest.: K CARVER
Tech. Officer: GSFC/T A DOIRON
CASE Category: 45 - ELECTRICAL ENGR

NAG 5 9652 UNIV OF MASSACHUSETTS - AMHERST 5792
 CONTINUED GROUND-BASED MICROWAVE MEASUREMENTS OF OZONE
 FOR THE NETWORK FOR DETECTION OF STRATOSPHER
 05/26/2000 - 12/31/2001 FY01: \$204,536 Total: \$371,013
Prin. Invest.: A PARRISH
Tech. Officer: GSFC/M KURYLO
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10515 UNIV OF MASSACHUSETTS - AMHERST 5793
 SHOCK & THERMAL HISTORY OF IRON, STONY IRON & CHON DRITIC
 METEORITES
 03/05/2001 - 03/14/2002 FY01: \$80,000 Total: \$80,000
Prin. Invest.: J GOLDSTEIN
Tech. Officer: GSFC/J BOYCE
CASE Category: 12 - CHEMISTRY

NAG 5 10649 UNIV OF MASSACHUSETTS - AMHERST 5794
 ASSESSING LANDFORMS AND LAND SURFACE CHANGE IN ACTIVE MOUN-
 TAINS WITH SRTM AND ENVISAT OBSERVATION
 04/04/2001 - 04/14/2002 FY01: \$117,715 Total: \$117,715
Prin. Invest.: C C DUNCAN
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 10677 UNIV OF MASSACHUSETTS - AMHERST 5795
 MILLIMETER-WAVE AND RADIO STUDIES OF SOLAR SYSTEM BODIES
 04/24/2001 - 04/30/2002 FY01: \$77,200 Total: \$77,200
Prin. Invest.: P SCHLOERB, NONE
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 - ASTRONOMY

NAG 5 10681 UNIV OF MASSACHUSETTS - AMHERST 5796
 ENVIRONMENTAL EVOLUTION: ORIGIN OF THE CHIMERIC EUKARYOTE
 03/28/2001 - 03/31/2002 FY01: \$100,000 Total: \$100,000
Prin. Invest.: L MARGULIS
Tech. Officer: GSFC/M MEYER
CASE Category: 11 - ASTRONOMY

NAG 5 10699 UNIV OF MASSACHUSETTS - AMHERST 5797
 PRINTED CIRCUIT DUAL-POL DUAL-FREQUENCY ANTENNA ELEMENTS
 FOR ATIP INTEGRATEDSENSOR MODULES
 04/18/2001 - 09/30/2002 FY01: \$82,500 Total: \$82,500
Prin. Invest.: K CARVER
Tech. Officer: GSFC/T DOIRON
CASE Category: 45 - ELECTRICAL ENGR

NAG 5 10783 UNIV OF MASSACHUSETTS - AMHERST 5798
 0.2-1 KEV EMISSION FROM THE HOT INTERGALACTIC MEDIUM (ADP 2000)
 04/23/2001 - 04/30/2002 FY01: \$46,230 Total: \$46,230
Prin. Invest.: Q WANG
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 8 1694 UNIV OF MASSACHUSETTS - AMHERST 5799
 CAPILLARY WAVES AT INTERFACES: THE ROLE OF GRAVITY AND ELEC-
 TRIC FIELDS
 06/01/2000 - 11/30/2003 FY01: \$95,000 Total: \$155,000
Prin. Invest.: T P RUSSELL
Tech. Officer: MSFC/P DOTY
CASE Category: 49 - ENGINEERING, OTHER

NAG 8 1697 UNIV OF MASSACHUSETTS - AMHERST 5800
 "THIN FILM MOLECULAR SIEVE SYNTHESIS: PROCESSING MICROSTRUC-
 TURE RELATIONSHIPS & EFFECTS OF GRAVITY"
 06/06/2000 - 11/30/2003 FY01: \$95,000 Total: \$135,000
Prin. Invest.: M TSAPATIS
Tech. Officer: MSFC/P DOTY
CASE Category: 49 - ENGINEERING, OTHER

NAG 9 1379 UNIV OF MASSACHUSETTS - AMHERST 5801
 LEARNING TO EXPLOIT DYNAMICS FOR ROBOT MANIPULATORS
 08/28/2001 - 07/31/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: A G BARTO
Tech. Officer: JSC/T MARTIN
CASE Category: 46 - MECHANICAL ENGR

NAS 1 01058 UNIV OF MASSACHUSETTS - AMHERST 5802
 RESEARCH ENTITLED, "NEAR-QUANTUM-NOISE LIMITED HOT ELECTRON
 BOLOMETRIC HETERODYNE DETECTORS
 06/20/2001 - 06/19/2004 FY01: \$298,000 Total: \$298,000
Prin. Invest.: S K YNGVESSON
Tech. Officer: LARC/M N ABEDIN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAS 3 00121 UNIV OF MASSACHUSETTS - AMHERST 5803
 ALLIANCE ICING RESEARCH STUDY
 04/30/2000 - 11/15/2000 FY01: \$0 Total: \$118,000
Prin. Invest.: S SEKELSEY
Tech. Officer: GRC/A REEHORST
CASE Category: 41 - AERONAUTICAL ENGR

NAS 5 99133 UNIV OF MASSACHUSETTS - AMHERST 5804
 TWO DIMENSIONAL SYNTHETIC APARTURE RADIOMETER.
 08/03/1999 - 02/24/2002 FY01: \$70,512 Total: \$201,912
Prin. Invest.: K CARVER
Tech. Officer: GSFC/D LEVINE
CASE Category: 45 - ELECTRICAL ENGR

NCC 2 1180 UNIV OF MASSACHUSETTS - AMHERST 5805
 MULTI-AGENT INFORMATION ENVIRONMENT FOR INTEGRATE D DESIGN
 AND ANALYSIS.....
 05/16/2000 - 05/14/2002 FY01: \$0 Total: \$65,918
Prin. Invest.: A DASCHMULCH
Tech. Officer: ARC/M E LIVINGSTON
CASE Category: 41 - AERONAUTICALENGNR

NCC 2 1265 UNIV OF MASSACHUSETTS - AMHERST 5806
 MULTI-AGENT REASONING & DISTRIBUTED SEARCH IN DESI GN OF
 COMPLEX AEROSPACE SYSTEMS
 05/03/2001 - 04/30/2002 FY01: \$105,000 Total: \$105,000
Prin. Invest.: A DESHMUKH
Tech. Officer: ARC/M LIVINGSTON, ARC/F J TORRES
CASE Category: 22 - COMPUTER SCIENCE

NGT 2 52276 UNIV OF MASSACHUSETTS - AMHERST 5807
 A DECISION-THEORY APPROACH TO AUTONOMOUS PLANETARY
 CONTROL (STUDENT: DANIELSCOTT BERNSTEIN)
 06/12/2001 - 06/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: S ZILBERSTEIN
Tech. Officer: ARC/J BRESINA
CASE Category: 22 - COMPUTER SCIENCE

NGT 5 30375 UNIV OF MASSACHUSETTS - AMHERST 5808
 REALIZING NETWORK SENSOR WEBS THROUGH THE DEVELOPM ENT OF
 THE REMOTEINSTRUMENT DEFINITION LANGU
 08/13/2001 - 08/31/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: D MCLAUGHLIN
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30412 UNIV OF MASSACHUSETTS - AMHERST 5809
 AIRBORNE CLOUD RADAR STUDIES: CLOUDSAT CALIBRATION AND
 CLOUD/PRECIPITA- TION RETRIEVAL ALGORITHM DEV
 08/14/2001 - 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: S SEKELSKY
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 9 32 UNIV OF MASSACHUSETTS - AMHERST 5810
 TRAINING GRANT
 06/04/1998 - 08/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: R E VAN EMMERIK
Tech. Officer: JSC/D G SICKOREZ
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 6605 UNIV OF MASSACHUSETTS-DARTHMOUTH 5811
 INTERANNUAL PHYSICAL AND BIOLOGICAL VARIABILITY OF F THE NORTH-
 EASTU.S. COAST
 12/11/1997 - 11/14/2000 FY01: -\$27,635 Total: \$149,003
Prin. Invest.: J J BISAGNI
Tech. Officer: GSFC/J MARRA
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9752 UNIV OF MASSACHUSETTS-DARTHMOUTH 5812
 REGIONAL FISHERIES APPLICATION CENTER
 06/22/2000 - 09/30/2002 FY01: \$0 Total: \$1,831,000
Prin. Invest.: B J ROTHSCHILD
Tech. Officer: GSFC/D R KAHLE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10125 UNIV OF MASSACHUSETTS-DARTHMOUTH 5813
 A PILOT INVESTIGATION OF LOW FREQUENCY CHLOROPHYLL & PIGMENT
 VARIABILITY OFF THE NORTHEAST
 12/12/2000 - 12/14/2001 FY01: \$80,043 Total: \$80,043
Prin. Invest.: J J BISAGNI
Tech. Officer: GSFC/J MARRA
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 4046 WELLESLEY COLLEGE 5814
 STRUCTURE AND DYNAMICS OF PLANETARY RINGS
 03/10/1997 - 09/30/2001 FY01: \$0 Total: \$174,750
Prin. Invest.: R G FRENCH
Tech. Officer: GSFC/J G GRANT
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 6222 WELLESLEY COLLEGE 5815
 HIGH-RESOLUTION LABORATORY MEASUREMENTS OF UV ABSO AND LINE
 WIDTHS FOR SO2 AND N2
 08/25/1997 - 06/30/2000 FY01: \$0 Total: \$96,200
Prin. Invest.: D STARK
Tech. Officer: GSFC/S HOWARD
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9059 WELLESLEY COLLEGE 5816
 LABORATORY MEASUREMENTS OF SO2 AND N2 ABSORPTION SPECTRA
 FOR PLANETARY ATMOSPHERES
 02/15/2000 - 02/28/2002 FY01: \$54,800 Total: \$112,921
Prin. Invest.: D STARK
Tech. Officer: GSFC/D BOGAN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 10197 WELLESLEY COLLEGE 5817
 DYNAMICS AND STRUCTURE OF PLANETARY RINGS
 12/21/2000 - 12/31/2001 FY01: \$46,500 Total: \$46,500
Prin. Invest.: R G FRENCH
Tech. Officer: GSFC/D SENSKE
CASE Category: 11 - ASTRONOMY

NAG 5 6455 WOODS HOLE OCEANOGRAPHIC INST 5818
 MODELING MESOSCALE BIOGEOCHEMICAL PROCESSES IN A T OPEX/
 POSEIDON DIAMOND SURROUNDING THE U.S. JGOF S
 11/04/1997 - 09/30/2001 FY01: \$0 Total: \$491,660
Prin. Invest.: D J MCGILLICUDDY
Tech. Officer: GSFC/J MARRA
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

<p>NAG 5 6456 WOODS HOLE OCEANOGRAPHIC INST 5819 STUDYING THE ANNUAL AND INTER-ANNUAL VARIABILITY IN OCEAN COLOR USING SATELLITE DATA AND GLOBAL M 11/03/1997 - 09/30/2000 FY01: -\$368 Total: \$301,543 <i>Prin. Invest.:</i> D M GLOVER <i>Tech. Officer:</i> GSFC/J A YODER <i>CASE Category:</i> 33 - OCEANOGRAPHY</p>	<p>NAG 5 11265 WOODS HOLE OCEANOGRAPHIC INST 5827 REGIONAL CARBON CYCLE MODELING AT THE BERMUDA ATLANTIC TIME-SERIES STUDY (BATS) SITE USING AN EDDY-R 08/31/2001 - 08/31/2004 FY01: \$133,555 Total: \$133,555 <i>Prin. Invest.:</i> D MCGILLICUDDY <i>Tech. Officer:</i> GSFC/J MARRA <i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER</p>
<p>NAG 5 7348 WOODS HOLE OCEANOGRAPHIC INST 5820 STUDIES OF HEAT, SALT, AND RADIATIVE FLUXES IN THE ARCTIC USING-SATELLITE AND BUOY OBSERVAT 04/28/1998 - 04/30/2001 FY01: \$0 Total: \$185,000 <i>Prin. Invest.:</i> J YANG <i>Tech. Officer:</i> GSFC/J COMISO <i>CASE Category:</i> 33 - OCEANOGRAPHY</p>	<p>NAS 5 00198 WOODS HOLE OCEANOGRAPHIC INST 5828 R & D TO SUPPORT SIMBIOS PROJECT 11/06/2000 - 10/30/2001 FY01: \$89,202 Total: \$89,202 <i>Prin. Invest.:</i> J R MORRISON <i>Tech. Officer:</i> GSFC/C R MCCLAIN <i>CASE Category:</i> 33 - OCEANOGRAPHY</p>
<p>NAG 5 7445 WOODS HOLE OCEANOGRAPHIC INST 5821 OPTICAL CLASSIFICATION OF WATER TYPES FROM SEAWIFS DATA: A HYBRID APPROACH USING BOTH SEMI-AN 06/04/1998 - 08/31/2002 FY01: \$0 Total: \$278,087 <i>Prin. Invest.:</i> H M SOSIK <i>Tech. Officer:</i> GSFC/J W CAMPBELL <i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER</p>	<p>NCC 5 441 WOODS HOLE OCEANOGRAPHIC INST 5829 SEASONAL-TO-INTERANNUAL VARIATIONS IN THE INDIAN OCEAN USING THE NSIPP OCEAN MODEL SIMULATIONS 12/02/1999 - 11/30/2001 FY01: \$30,000 Total: \$90,000 <i>Prin. Invest.:</i> L YU <i>Tech. Officer:</i> GSFC/M RIENECKER <i>CASE Category:</i> 33 - OCEANOGRAPHY</p>
<p>NAG 5 7538 WOODS HOLE OCEANOGRAPHIC INST 5822 BIOLOGICAL INTERPRETATION OF OCEAN COLOR: OBSERVATIONS AND MODELS FOR WATERS OF THE MID-ATLANTIC 06/16/1998 - 02/28/2001 FY01: \$0 Total: \$180,000 <i>Prin. Invest.:</i> H M SOSIK <i>Tech. Officer:</i> GSFC/J A C JANETOS <i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER</p>	<p>NGT 5 30206 WOODS HOLE OCEANOGRAPHIC INST 5830 INTERPRETATION OF VARIABILITY IN WATER COLUMN OPTICAL PROPERTIES THROUGH SINGLE-PARTICLE ANALYSIS 08/19/1999 - 08/31/2002 FY01: \$22,000 Total: \$66,000 <i>Prin. Invest.:</i> H SOSIK <i>Tech. Officer:</i> GSFC/M WEI <i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER</p>
<p>NAG 5 7770 WOODS HOLE OCEANOGRAPHIC INST 5823 STUDIES OF ANTARCTIC SEA ICE AND SOUTHERN OCEAN TEMPERATURE MINIMUM LAYER USING SATELLITE AND I 10/22/1998 - 12/31/2001 FY01: \$64,522 Total: \$184,956 <i>Prin. Invest.:</i> R A KRISHFIELD <i>Tech. Officer:</i> GSFC/E LINDSTROM <i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER</p>	<p>NGT 5 30362 WOODS HOLE OCEANOGRAPHIC INST 5831 IRON CYCLING IN THE CALIFORNIA CURRENT SYSTEM: GEOCHEMICAL & ECOLOGICAL MODELING/STUDENT: PAYAL PAR 08/24/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000 <i>Prin. Invest.:</i> D M GLOVER, NONE <i>Tech. Officer:</i> GSFC/M WEI <i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER</p>
<p>NAG 5 8868 WOODS HOLE OCEANOGRAPHIC INST 5824 BIOLOGICAL INTERPRETATION OF OCEAN COLOR: OBSERVATIONS & MODELS FOR WATERS OF THE MID-ATLANTIC SHEL 01/10/2000 - 02/28/2002 FY01: \$100,000 Total: \$200,000 <i>Prin. Invest.:</i> H SOSIK <i>Tech. Officer:</i> GSFC/J MARRA <i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER</p>	<p>NAG 3 2395 WORCESTER POLYTECHNIC INST 5832 STABILITY AND HEAT TRANSFER CHARACTERISTICS OF CONDENSING FILMS IN REDUCED GRAVITY 04/14/2000 - 11/30/2003 FY01: \$79,445 Total: \$122,531 <i>Prin. Invest.:</i> D C HERMANSON <i>Tech. Officer:</i> GRC/F CHIARAMONTE <i>CASE Category:</i> 49 - ENGINEERING, OTHER</p>
<p>NAG 5 9422 WOODS HOLE OCEANOGRAPHIC INST 5825 ISOTOPIC BIOGEOCHEMISTRY 04/11/2000 - 04/29/2002 FY01: \$185,000 Total: \$359,270 <i>Prin. Invest.:</i> D M HAYES <i>Tech. Officer:</i> GSFC/M MEYER <i>CASE Category:</i> 51 - BIOLOGY (EXCLUDING ENVIR)</p>	<p>NAG 3 2405 WORCESTER POLYTECHNIC INST 5833 EXPERIMENTAL INVESTIGATION AND MODELING OF PULSED PLASMA THRUSTER PLUMES 05/03/2000 - 04/30/2002 FY01: \$55,598 Total: \$105,538 <i>Prin. Invest.:</i> D GATSONIS <i>Tech. Officer:</i> GRC/E J PENCIL <i>CASE Category:</i> 13 - PHYSICS</p>
<p>NAG 5 9858 WOODS HOLE OCEANOGRAPHIC INST 5826 STUDYING THE ANNUAL & INTER-ANNUAL VARIABILITY IN OCEAN COLOR USING SATELLITE DATA & GLOBAL MARINE 08/07/2000 - 03/31/2002 FY01: \$95,616 Total: \$114,739 <i>Prin. Invest.:</i> D M GLOVER <i>Tech. Officer:</i> GSFC/J MARRA <i>CASE Category:</i> 33 - OCEANOGRAPHY</p>	<p>NAG 3 2535 WORCESTER POLYTECHNIC INST 5834 SPLASHING DROPLETS 01/25/2001 - 11/30/2003 FY01: \$25,000 Total: \$25,000 <i>Prin. Invest.:</i> D TRYGGVASON <i>Tech. Officer:</i> GRC/F P CHIARAMONTE <i>CASE Category:</i> 49 - ENGINEERING, OTHER</p>

NAG 3 2545 WORCESTER POLYTECHNIC INST 5835
 COMPUTATIONAL MODELING OF THE EFFECT OF SECONDARY FORCES ON
 THE PHASE DISTRIBUTION IN DISPERSED MULT
 02/22/2001 – 02/06/2004 FY01: \$95,000 Total: \$95,000
Prin. Invest.: D TRYGGVASON
Tech. Officer: GRC/D F CHAO
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 2583 WORCESTER POLYTECHNIC INST 5836
 COMPUTATIONS OF BOILING IN MICROGRAVITY
 04/04/2001 – 04/30/2002 FY01: \$72,500 Total: \$72,500
Prin. Invest.: D TRYGGVASON
Tech. Officer: GRC/D F CHAO
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 8578 WORCESTER POLYTECHNIC INST 5837
 FUNDING FOR UNSOLICITED PROPOSAL FOR "STUDENT PROJ ECTS AT
 THE GODDARD SPACE FLIGHT CENTER"
 05/26/1999 – 06/30/2000 FY01: \$0 Total: \$15,000
Prin. Invest.: F J LOOFT
Tech. Officer: GSFC/M R BROWN
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 9754 WORCESTER POLYTECHNIC INST 5838
 STUDENT PROJECTS AT THE GODDARD SPACE FLIGHT CENTER
 06/23/2000 – 06/30/2001 FY01: \$0 Total: \$15,000
Prin. Invest.: F J LOOFT
Tech. Officer: GSFC/M R BROWN
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10712 WORCESTER POLYTECHNIC INST 5839
 STUDENT PROJECTS AT THE GODDARD SPACE FLIGHT CTR
 04/06/2001 – 06/30/2002 FY01: \$20,000 Total: \$20,000
Prin. Invest.: F J LOOFT
Tech. Officer: GSFC/S J BRODEUR
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 9 1014 WORCESTER POLYTECHNIC INST 5840
 GENESIS DISCOVERY MISSION PHASE B
 05/12/1998 – 06/29/2000 FY01: \$0 Total: \$133,100
Prin. Invest.: K M RUTLEDGE
Tech. Officer: JSC/K E CYR
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NCC 3 673 WORCESTER POLYTECHNIC INST 5841
 COMBUSTION CHARACTERISTICS OF FULLY-MODULATED, TUR BULENT
 DIFFUSION FLAMES IN REDUCED GRAVITY
 02/23/1999 – 01/13/2003 FY01: \$112,067 Total: \$303,165
Prin. Invest.: D C HERMANSON
Tech. Officer: GRC/D P STOCKER
CASE Category: 49 – ENGINEERING, OTHER

MICHIGAN

NAG 5 10118 ALMA COLLEGE 5842
 ANALYSIS OF DATA FROM THE ER-2 CLOUD PHYSICS LIDAR SYSTEM
 12/21/2000 – 12/31/2001 FY01: \$15,000 Total: \$15,000
Prin. Invest.: J H GIBSON
Tech. Officer: GSFC/M J MCGILL
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 8799 BAY MILLS COMMUNITY COLLEGE 5843
 YOU BE THE SCIENTIST PROGRAM
 11/04/1999 – 03/14/2001 FY01: \$0 Total: \$45,000
Prin. Invest.: R DICKINSON
Tech. Officer: GSFC/M COMBERIETE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10348 CALVIN COLLEGE 5844
 SIMULATION OF GLOBAL GLACIO-ISOSTAS, EARTH DEFORMA TION AND
 SEA LEVEL CHANGES.
 02/05/2001 – 01/31/2002 FY01: \$41,623 Total: \$41,623
Prin. Invest.: J A CLARK
Tech. Officer: GSFC/H V FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 6409 GRAND VALLEY STATE UNIV 5845
 PROVIDES FUNDING FOR TECH SUPPORT FOR "GPS MONITOR ING OF
 STRAINACCUMULATION IN THE NEW MAD
 10/24/1997 – 10/31/1999 FY01: -\$455 Total: \$2,544
Prin. Invest.: J WEBER
Prin. Invest.: NONE
Tech. Officer: GSFC/B BILLS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 1 01060 HOPE COLLEGE 5846
 THEORETICAL INVESTIGATION OF THERMO-MECHANICAL BEHAVIOR OF
 CARBON NANOTUBE-BASED COMPOSITES USING
 04/05/2001 – 04/04/2004 FY01: \$52,936 Total: \$52,936
Prin. Invest.: J PAWLOSKE
Tech. Officer: LARC/T S GATES
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 2520 KETTERING UNIV 5847
 MODELING FOR UNDERSTANDING HIGH SPECIFIC IMPULSE H ALL
 THRUSTERS
 01/08/2001 – 11/30/2003 FY01: \$59,531 Total: \$59,531
Prin. Invest.: S ROY
Tech. Officer: GRC/M MANTENIEKS
CASE Category: 13 – PHYSICS

NAG 3 2638 KETTERING UNIV 5848
 ELECTRODE MODEL FOR MACH@MPD THRUSTER SIMULATIONS ELEC-
 TRODE MODEL FOR MACH@MPD THRUSTER SIMULATIONS
 06/21/2001 – 02/28/2002 FY01: \$19,994 Total: \$19,994
Prin. Invest.: S ROY
Tech. Officer: GRC/D REDDY
CASE Category: 46 – MECHANICAL ENGR

NAG 1 2213 MICHIGAN STATE UNIV 5849
 PENALTY-BASED FINITE ELEMENT INTERFACE TECHNOLOGY FOR ANAL-
 YSIS OF HOMOGENEOUS & COMPOSITE STRUCTURES
 07/12/1999 – 06/30/2001 FY01: -\$1 Total: \$54,655
Prin. Invest.: R C AVERILL
Tech. Officer: LARC/J B RANSOM
CASE Category: 46 – MECHANICAL ENGR

NAG 1 01048 MICHIGAN STATE UNIV 5850
 PARAMETRIC IDENTIFICATION OF NONLINEAR DYNAMICAL SYSTEMS
 06/06/2001 – 09/30/2001 FY01: \$34,799 Total: \$34,799
Prin. Invest.: B F FEENY
Tech. Officer: LARC/W A SILVA
CASE Category: 41 – AERONAUTICAL ENGR

NAG 3 2203 **MICHIGAN STATE UNIV** **5851**
 CONTROL OF SHOCK-WAVE/BOUNDARY-LAYER INTERACTIONS WITH BLEED
 09/25/1998 – 11/30/2000 FY01: \$0 Total: \$100,992
Prin. Invest.: T I SHIH
Tech. Officer: GRC/B P WILLIS
CASE Category: 41 – AERONAUTICAL ENGR

NAG 3 2234 **MICHIGAN STATE UNIV** **5852**
 DEVELOPMENT AND IMPLEMENTATION OF A GLOBAL BLEED B OUNDARY CONDITION
 03/11/1999 – 01/20/2002 FY01: \$66,150 Total: \$189,150
Prin. Invest.: T SHIH
Tech. Officer: GRC/D DAVIS
CASE Category: 41 – AERONAUTICAL ENGR

NAG 3 2472 **MICHIGAN STATE UNIV** **5853**
 RESEARCHING EPOXY AND POLYIMIDE NANOCOMPOSITES USI NG NATURAL AND SYNTHETIC CLAYS
 07/07/2000 – 10/06/2001 FY01: \$83,250 Total: \$119,880
Prin. Invest.: T J PINNAVAIA
Tech. Officer: GRC/S G CAMPBELL
CASE Category: 12 – CHEMISTRY

NAG 3 2576 **MICHIGAN STATE UNIV** **5854**
 AERODYNAMICS OF AIRFOILS WITH ICE ACCRETION: CFD SIMULATIONS AND TECHNOLOGY ISSUES
 03/26/2001 – 11/30/2003 FY01: \$70,000 Total: \$70,000
Prin. Invest.: T SHIH
Tech. Officer: GRC/Y CHOO
CASE Category: 41 – AERONAUTICAL ENGR

NAG 5 3218 **MICHIGAN STATE UNIV** **5855**
 CCD SYSTEM TECHNOLOGY FOR EXTREMELY LOW BACKGROUND OBSERVATIONS
 04/26/1996 – 09/30/2001 FY01: \$0 Total: \$497,500
Prin. Invest.: E D LOH
Tech. Officer: GSFC/E CHENG
CASE Category: 13 – PHYSICS

NAG 5 4810 **MICHIGAN STATE UNIV** **5856**
 ACQUISITION AND ANALYSIS OF LARGE QUANTITIES OF LA MEASURING TROPICAL LAND COVER CHANGE (NRA-MTPE-03)
 07/30/1997 – 06/30/2001 FY01: \$48,523 Total: \$631,178
Prin. Invest.: D SKOLE
Prin. Invest.: NONE
Tech. Officer: GSFC/D WILLIAMS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6538 **MICHIGAN STATE UNIV** **5857**
 CASE STUDIES AND DIAGNOSTIC MODELS OF THE INTER-ANNUAL DYNAMICS OF DEFORESTATION IN SOUTHEAST ASIA
 04/21/1998 – 09/30/2001 FY01: \$0 Total: \$460,000
Prin. Invest.: D SKOLE
Tech. Officer: GSFC/A JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 8053 **MICHIGAN STATE UNIV** **5858**
 SOLAR CONVECTION AND OSCILLATIONS
 01/12/1999 – 01/14/2002 FY01: \$96,000 Total: \$252,000
Prin. Invest.: R F STEIN
Tech. Officer: GSFC/J GURMAN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 8317 **MICHIGAN STATE UNIV** **5859**
 ENHANCING PROFESSIONAL DEVELOPMENT OF LANDSCAPE ECOLOGISTS OF THE NEXT GENERATION
 03/26/1999 – 02/28/2001 FY01: \$0 Total: \$20,000
Prin. Invest.: J LIU
Tech. Officer: GSFC/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 8893 **MICHIGAN STATE UNIV** **5860**
 ATOMIC FORCE MICROSCOPE LITHOGRAPHY & BEEM INVESTI GATION OF CARBON NANOTUBE INTERFACES
 01/07/2000 – 01/14/2001 FY01: \$0 Total: \$5,000
Prin. Invest.: V AYRES
Tech. Officer: GSFC/J M BENAVIDES
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 5 9232 **MICHIGAN STATE UNIV** **5861**
 PATTERN TO PROCESS: RESEARCH AND APPLICATIONS FOR UNDERSTANDING MULTIPLE INTERACTIONS & FEEDBACK ON
 04/03/2000 – 04/30/2002 FY01: \$218,611 Total: \$374,150
Prin. Invest.: R WALKER
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 9276 **MICHIGAN STATE UNIV** **5862**
 SYNTHESIS OF HYBRID CARBON NANOTUBE/DIAMOND FILMS
 03/16/2000 – 05/14/2001 FY01: \$0 Total: \$20,000
Prin. Invest.: D TOMANEK
Tech. Officer: GSFC/H SHAW
CASE Category: 13 – PHYSICS

NAG 5 9286 **MICHIGAN STATE UNIV** **5863**
 GOF C DATA & INFORMATION FOR TROPICAL FOREST ASSESS MENT & MANAGEMENT
 03/16/2000 – 04/30/2002 FY01: \$124,226 Total: \$205,044
Prin. Invest.: J QI
Tech. Officer: HQ/G GUTMAN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 9563 **MICHIGAN STATE UNIV** **5864**
 SOLAR SURFACE CONVECTION
 05/09/2000 – 05/14/2002 FY01: \$122,601 Total: \$170,954
Prin. Invest.: R F STEIN
Tech. Officer: GSFC/W J WAGNER
CASE Category: 11 – ASTRONOMY

NAG 5 10200 **MICHIGAN STATE UNIV** **5865**
 ENHANCING PROFESSIONAL DEVELOPMENT OF LANDSCAPE ECOLOGISTS OF THE NEXT GENERATION
 12/21/2000 – 12/31/2001 FY01: \$15,000 Total: \$15,000
Prin. Invest.: J LIU
Tech. Officer: GSFC/G GUTMAN
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 8 1575 **MICHIGAN STATE UNIV** **5866**
 MICROGRAVITY REGULATION OF ONCOGENE EXPRESSION AND OSTEOBLAST DIFFERENTIATION.
 02/17/1999 – 11/30/2002 FY01: \$125,400 Total: \$359,400
Prin. Invest.: L R MCCABE
Tech. Officer: GSFC/B GUYNES
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 8 1690 **MICHIGAN STATE UNIV** **5867**
 INVESTIGATION OF SOLIDIFICATION PROCESS WITH CONVECTION USING
 MESHLESS METHODS & VERIFICATION
 05/16/2000 – 11/30/2003 FY01: \$95,000 Total: \$140,061
Prin. Invest.: A BERNARD, M KOOCHESFAHANI, A DIAZ
Tech. Officer: MSFC/P DOTY
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 9 1211 **MICHIGAN STATE UNIV** **5868**
 WATER DRIVEN ALTERATION OF ROCKS & MINERALS ON MARS ASTER-
 IODS:CLUES TO THE SEARCH FOR LIFE
 04/04/2000 – 09/30/2002 FY01: \$0 Total: \$15,496
Prin. Invest.: M A VELBEL
Tech. Officer: JSC/D S MCKAY
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NCC 2 1274 **MICHIGAN STATE UNIV** **5869**
 CENTER FOR GENOMIC AND EVOLUTIONARY STUDIES ON MIC ROBIAL
 LIFE AT LOW TEMPERATURE
 07/20/2001 – 06/30/2006 FY01: \$376,075 Total: \$376,075
Prin. Invest.: M THOMASHOW, J TIEDJE, L SEPULVEDA
Tech. Officer: ARC/R GRYMES, ARC/W W DOLCI
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NCC 3 662 **MICHIGAN STATE UNIV** **5870**
 INVESTIGATION OF DIFFUSION FLAM TIP INSTABILITY IN MICROGRAVITY
 01/14/1999 – 01/03/2003 FY01: \$117,421 Total: \$273,339
Prin. Invest.: I S WICHMAN
Tech. Officer: GRC/S OLSON
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NCC 3 868 **MICHIGAN STATE UNIV** **5871**
 HIGH-TEMPERATURE SHAPE-MEMORY ALLOY DEVELOPMENT FO R
 ACTUATION ABOVE 500 C
 02/28/2001 – 03/31/2004 FY01: \$64,500 Total: \$64,500
Prin. Invest.: D S GRUMMON
Tech. Officer: GRC/M V NATHAL
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 5 291 **MICHIGAN STATE UNIV** **5872**
 MEASUREMENT AND MODELING OF THE INTER-ANNUAL DYNAM ICS OF
 DEFORESTATION AND REGROWTH INTHE BRAZILI
 06/16/1998 – 12/31/2001 FY01: \$246,816 Total: \$961,952
Prin. Invest.: D SKOLE
Prin. Invest.: NONE
Tech. Officer: GSFC/D DEERING
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 5 303 **MICHIGAN STATE UNIV** **5873**
 CREATIVE & INNOVATIVE WORKING PROTOTYPE EARTH SCIENCE
 INFORMATION PARTNERSHIPS IN SUPPORT
 04/09/1998 – 06/30/2002 FY01: \$697,000 Total: \$4,352,000
Prin. Invest.: D SKOLE
Tech. Officer: GSFC/M MAIDEN
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 1 52216 **MICHIGAN STATE UNIV** **5874**
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
 06/01/1999 – 06/30/2001 FY01: \$12,000 Total: \$44,000
Prin. Invest.: L M HUDY, A NAGUIB
Tech. Officer: LARC/W M HUMPHREYS, JR.
CASE Category: 41 – AERONAUTICAL ENGR

NGT 5 30166 **MICHIGAN STATE UNIV** **5875**
 MAPPING THE SPATIAL DISTRIBUTION OF BAMBOO IN A GI ANT PANDA
 RESERVE:A STUDY OF THE RELATIONSHIP
 09/01/1998 – 08/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: J LIU
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 30340 **MICHIGAN STATE UNIV** **5876**
 MODELING THE SOCIO-ECONOMIC DRIVERS OF LAND USE & COVER
 CHANGE IN SOUTH AFRICA: INTEGRATING SOCIAL S
 08/21/2000 – 08/31/2001 FY01: \$0 Total: \$22,000
Prin. Invest.: D J CAMPBELL
Tech. Officer: GSFC/M WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 50150 **MICHIGAN STATE UNIV** **5877**
 AN INTEGRATED ASSESSMENT OF THE CUMULATIVE IMPACTS ARCTIC
 DEVELOPMENT
 09/11/1997 – 08/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: P WEBBER
Tech. Officer: HQ/A NURRIDIN
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 50378 **MICHIGAN STATE UNIV** **5878**
 ON-LINE LEARNING OF SENSOR-IMAGE STABILIZATION INS PIRED BY
 THEVESTIBULAR SYSTEM OF SQUIRR
 09/17/2001 – 09/14/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: P PIERRE
Prin. Invest.: NONE
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT13 52715 **MICHIGAN STATE UNIV** **5879**
 NASA GRADUATE STUDENT RESEARCHER PROGRAM FOR STACEY A.C.
 NELSON
 10/01/1997 – 08/15/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: P SORRANO
Tech. Officer: SSC/A JOYCE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 1 01004 **MICHIGAN TECHNOLOGICAL UNIV** **5880**
 GRAPHITE NANOREINFORCEMENTS FOR AEROSPACE NANO-
 COMPOSITES
 11/24/2000 – 09/30/2003 FY01: \$74,932 Total: \$74,932
Prin. Invest.: L DRZAL
Tech. Officer: LARC/J HINKLEY, LARC/T S GATES
CASE Category: 12 – CHEMISTRY

NAG 3 2088 **MICHIGAN TECHNOLOGICAL UNIV** **5881**
 NUMERICAL STUDIES OF THE LDI AND THE LPP/LDI GAS T URBINE
 COMBUSTOR CONCEPTS
 12/23/1997 – 01/28/2002 FY01: \$80,000 Total: \$323,636
Prin. Invest.: S L YANG
Tech. Officer: GRC/R R TACINA
CASE Category: 41 – AERONAUTICAL ENGR

NAG 5 3689 **MICHIGAN TECHNOLOGICAL UNIV** **5882**
 COOL STARS ATMOSPHERIC MODELS. COMPUTATIONS OF HIG
 01/14/1997 – 08/31/2000 FY01: \$0 Total: \$141,278
Prin. Invest.: A BORYSOW
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 4756 MICHIGAN TECHNOLOGICAL UNIV 5883
 CONTINUING THE SEARCH FOR GRAVITATIONAL LENSING IN
 06/17/1997 - 08/31/2000 FY01: \$0 Total: \$46,000
Prin. Invest.: R J NEMIROFF
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 - ASTRONOMY

NAG 5 5278 MICHIGAN TECHNOLOGICAL UNIV 5884
 OBSERVING AND MEASURING EARLY OPTICAL LIGHT CURVES FROM
 GAMMA-RAY BURSTS WITH LOTIS
 06/21/2000 - 06/06/2002 FY01: \$0 Total: \$20,000
Prin. Invest.: R NEMIROFF
Tech. Officer: WFF/B A MERRITT
CASE Category: 13 - PHYSICS

NAG 5 6310 MICHIGAN TECHNOLOGICAL UNIV 5885
 LINEAR ADAPTIVE MIRROR TESTBED TO SUPPORT DIRECT DETECTION OF
 EXTRA-SOLAR PLANETS
 10/06/1997 - 06/14/2002 FY01: \$0 Total: \$224,768
Prin. Invest.: D FTACLAS
Tech. Officer: GSFC/B CAMPBELL
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 7051 MICHIGAN TECHNOLOGICAL UNIV 5886
 LAKE SUPERIOR ICE FIELD MEASUREMENTS FOR C-BAND SA R BACK-
 SCATTERSIGNATURES AND ICE COVER AN
 03/12/1998 - 02/28/2002 FY01: \$0 Total: \$144,425
Prin. Invest.: D PILANT
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7272 MICHIGAN TECHNOLOGICAL UNIV 5887
 VOLCANIC PLUME ANALYSIS USING TOMS AND AVHRR DATA
 04/30/1998 - 10/31/2001 FY01: \$0 Total: \$132,026
Prin. Invest.: W ROSE
Tech. Officer: GSFC/A J KRUEGER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7576 MICHIGAN TECHNOLOGICAL UNIV 5888
 FUNDING FOR 'APPLICATION OF TOMS DATA TO VOLCANIC HAZARD
 MITIGATION'(SENH98-0061)
 08/04/1998 - 07/31/2002 FY01: \$30,000 Total: \$180,000
Prin. Invest.: G J BLUTH
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 8796 MICHIGAN TECHNOLOGICAL UNIV 5889
 EARTH AND SPACE SCIENCES PROJECT SERVICES FOR NASA HPCC
 09/21/1999 - 09/30/2002 FY01: \$189,394 Total: \$563,516
Prin. Invest.: D MERKEY
Tech. Officer: GSFC/J R FISCHER
CASE Category: 22 - COMPUTER SCIENCE

NAG 5 10568 MICHIGAN TECHNOLOGICAL UNIV 5890
 ICE-SULFUR-ASH INTERACTIONS IN VOLCANIC CLOUDS: LABORATORY
 STUDIES OF ICE NUCLEATION
 03/12/2001 - 03/14/2002 FY01: \$82,459 Total: \$82,459
Prin. Invest.: R SHAW
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 11062 MICHIGAN TECHNOLOGICAL UNIV 5891
 VALIDATION OF TOMS VOLCANIC AEROSOL & SO2 PRODUCTS USING
 MODIS & AVHRR
 06/27/2001 - 06/30/2002 FY01: \$95,000 Total: \$95,000
Prin. Invest.: G BLUTH
Tech. Officer: GSFC/R MVPETERS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 8 1478 MICHIGAN TECHNOLOGICAL UNIV 5892
 R/S GRAVITY INDUCED SETTLING IN INTERCONNECTED LIQUID SOLID
 SYSTEMS
 02/18/1998 - 01/31/2002 FY01: \$85,000 Total: \$258,833
Prin. Invest.: T H COURTNEY
Tech. Officer: MSFC/C TALLEY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NGT 5 76 MICHIGAN TECHNOLOGICAL UNIV 5893
 COLLEEN RILEY "TWO-DIMENSIONAL CHARACTERIZATION OF VOLCANIC
 ASH-APPLICATIONS TO REMOTE SENSING ALGO
 07/22/1998 - 08/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: W I ROSE
Tech. Officer: GSFC/M S BURRELL
CASE Category: 32 - GEOLOGICAL SCIENCE

NGT 5 120 MICHIGAN TECHNOLOGICAL UNIV 5894
 THE GROUNDING OF COMPOSITE MATERIALS & THE IMPACT ON EMC/
 STUDENT: DERIK C. LOVE
 05/31/2001 - 08/14/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: E ROTHWELL
Tech. Officer: GSFC/M S BURRELL
CASE Category: 45 - ELECTRICAL ENGR

NGT 5 30154 MICHIGAN TECHNOLOGICAL UNIV 5895
 TEMPORAL ANALYSIS OF VOLCANIC AEROSOL AND ASH TRANSPORT
 08/28/1998 - 08/31/2001 FY01: \$0 Total: \$44,000
Prin. Invest.: G BLUTH, BARKER
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 1 2042 UNIV OF MICHIGAN - ANN ARBOR 5896
 TROPOSPHERIC TRACE GAS BUDGETS: INTERACTIONS WITH AEROSOLS
 04/23/1998 - 04/22/2001 FY01: \$0 Total: \$343,040
Prin. Invest.: J E PENNER
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 2142 UNIV OF MICHIGAN - ANN ARBOR 5897
 DEVELOPMENT AND TEST OF A 1.4 GHZ DIRECT-SAMPLING DIGITAL
 RADIOMETER FOR STAR AND FULLY POLARIMETRIC
 02/02/1999 - 09/30/2000 FY01: -\$1 Total: \$140,000
Prin. Invest.: A W ENGLAND
Tech. Officer: LARC/J W JOHNSON, LARC/R W LAWRENCE
CASE Category: 45 - ELECTRICAL ENGR

NAG 1 2181 UNIV OF MICHIGAN - ANN ARBOR 5898
 DATA-BASED CLIMATOLOGIES AND STUDY OF THE OZONE BUDGET IN THE
 TROPOPAUSE
 03/31/1999 - 12/31/2001 FY01: \$0 Total: \$40,000
Prin. Invest.: M A CARROLL
Tech. Officer: LARC/G R MADDREA, LARC/L POOLE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 01032 **UNIV OF MICHIGAN - ANN ARBOR** **5899**
 DESIGN STUDY OF A SYNTHETIC THINNED APERTURE RADIO METER FOR
 HURRICANE IMPACT PREDICTION
 04/05/2001 - 12/31/2001 FY01: \$65,000 Total: \$65,000
Prin. Invest.: C S RUF
Tech. Officer: LARC/J W JOHNSON, LARC/R W LAWRENCE
CASE Category: 45 - ELECTRICAL ENGR

NAG 3 1861 **UNIV OF MICHIGAN - ANN ARBOR** **5900**
 ON THE BOUNDARY CONDITIONS AT AN OSCILLATING CONTACT LINE: A
 PHYSICAL/NUMERICAL EXPERIMENTAL PROGRAM
 05/21/1996 - 08/31/2000 FY01: \$0 Total: \$392,000
Prin. Invest.: M PERLIN
Tech. Officer: GRC/M WEISLOGEL
CASE Category: 13 - PHYSICS

NAG 3 1878 **UNIV OF MICHIGAN - ANN ARBOR** **5901**
 SOOT FORMATION IN FREELY-PROPAGATING LAMINAR PREMIXED
 FLAMES
 05/20/1996 - 06/30/2001 FY01: \$0 Total: \$361,254
Prin. Invest.: G M FAETH
Tech. Officer: GRC/H D ROSS
CASE Category: 46 - MECHANICAL ENGR

NAG 3 1900 **UNIV OF MICHIGAN - ANN ARBOR** **5902**
 A STUDY OF NUCLEATE BOILING WITH FORCED CONVECTION IN
 MICROGRAVITY
 07/22/1996 - 07/21/2001 FY01: \$0 Total: \$199,920
Prin. Invest.: P MERTE, NONE
Tech. Officer: GRC/F CHIARAMONTE
CASE Category: 46 - MECHANICAL ENGR

NAG 3 1952 **UNIV OF MICHIGAN - ANN ARBOR** **5903**
 NUMERICAL MODELING OF LIQUID-VAPOR PHASE CHANGE
 09/06/1996 - 08/14/2000 FY01: \$0 Total: \$221,418
Prin. Invest.: V S ARPACI
Tech. Officer: GRC/A T CHAI
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 3 2048 **UNIV OF MICHIGAN - ANN ARBOR** **5904**
 LAMINAR SOOT PROCESSES EXPERIMENT (LSP)
 05/06/1997 - 12/31/2000 FY01: \$0 Total: \$596,227
Prin. Invest.: G M FAETH
Tech. Officer: GRC/D URBAN
CASE Category: 46 - MECHANICAL ENGR

NAG 3 2082 **UNIV OF MICHIGAN - ANN ARBOR** **5905**
 STRATEGY 2000: RECRUITMENT, RETENTION, RECOGNITION; A
 BALANCED APPROACH TO DIVERSITY AND EXCELLENCE
 09/30/1997 - 12/21/2002 FY01: \$56,000 Total: \$255,760
Prin. Invest.: D E SCOTT, J W JONES
Tech. Officer: GRC/A GONZALEZ, GRC/S A MERRITT
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2134 **UNIV OF MICHIGAN - ANN ARBOR** **5906**
 MICROSCOPIC VISUALIZATION OF FLUID FLOW IN EVAPORATION DROP-
 LETS AND ELECTRO-OSMOTIC FLOWS
 03/03/1998 - 01/05/2002 FY01: \$78,850 Total: \$385,850
Prin. Invest.: R G LARSON
Tech. Officer: GRC/D W GRIFFIN
CASE Category: 46 - MECHANICAL ENGR

NAG 3 2162 **UNIV OF MICHIGAN - ANN ARBOR** **5907**
 COMPUTATIONS OF BOILING IN MICROGRAVITY COMPUTATIONS OF
 BOILING IN MICROGRAVITY
 04/27/1998 - 02/09/2002 FY01: \$14,000 Total: \$266,000
Prin. Invest.: G TRYGGVASON, D JACQMIN
Tech. Officer: GRC/D F CHAO
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 3 2196 **UNIV OF MICHIGAN - ANN ARBOR** **5908**
 FLUID MECHANICS OF CAPILLARY-ELASTIC INSTABILITIES IN THE
 MICROGRAVITY ENVIRONMENT
 09/03/1998 - 03/31/2002 FY01: \$44,000 Total: \$293,766
Prin. Invest.: J B GROTBORG
Tech. Officer: GRC/D F CHAO
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 3 2216 **UNIV OF MICHIGAN - ANN ARBOR** **5909**
 USE OF LASER INDUCED FLOURESCENCE TO CHARACTERIZE DISCHARGE
 CATHODE EROSIONS OF AN ION ENGINE
 01/14/1999 - 01/24/2002 FY01: \$40,000 Total: \$124,999
Prin. Invest.: A D GALLIMORE
Tech. Officer: GRC/J S SOVEY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 3 2307 **UNIV OF MICHIGAN - ANN ARBOR** **5910**
 DEVELOPMENT OF A TWO-STAGE ION THRUSTER DEVELOPMENT OF A
 TWO-STAGE ION THRUSTER
 12/03/1999 - 11/23/2002 FY01: \$20,000 Total: \$70,000
Prin. Invest.: A D GALLIMORE
Tech. Officer: GRC/R S JANKOVSKY
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2330 **UNIV OF MICHIGAN - ANN ARBOR** **5911**
 LONG-TERM RELIABILITY OF HIGH-SPEED SIGE/SI HETERO JUNCTION
 BIPOLAR TRANSISTORS
 02/10/2000 - 02/03/2001 FY01: \$0 Total: \$70,000
Prin. Invest.: P BHATTACHARYA
Tech. Officer: GRC/G PONCHAK
CASE Category: 45 - ELECTRICAL ENGR

NAG 3 2332 **UNIV OF MICHIGAN - ANN ARBOR** **5912**
 COMPUTATIONAL MODELING OF THE EFFECT OF SECONDARY FORCES ON
 THE PHASE DISTRIBUTION IN DISPERSED MULTIPHASE FLOWS
 02/11/2000 - 11/30/2003 FY01: \$0 Total: \$60,000
Prin. Invest.: G TRYGGVASON
Tech. Officer: GRC/D F CHAO
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2346 **UNIV OF MICHIGAN - ANN ARBOR** **5913**
 SYSTEMATIC IDENTIFICATION OF BLADE MISTUNING PARAMETERS FOR
 BLISKs
 03/07/2000 - 07/01/2001 FY01: \$0 Total: \$39,000
Prin. Invest.: C PIERRE
Tech. Officer: GRC/O MEHMED
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2356 **UNIV OF MICHIGAN - ANN ARBOR** **5914**
 AGGREGATION AND GELATION IN SUSPENSIONS OF ANISOME TRIC
 PARTICLES: STUDIES OF COLLOIDAL PLATELETS AN
 03/15/2000 - 11/30/2003 FY01: \$76,000 Total: \$126,000
Prin. Invest.: M D SOLOMON, NONE
Tech. Officer: GRC/F P CHIARAMONTE
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2404 **UNIV OF MICHIGAN - ANN ARBOR** **5915**
 LAMINAR SOORT PROCESSES (LSP) LAMINAR SOORT PROCESSES (LSP)
 04/27/2000 - 12/31/2002 FY01: \$76,000 Total: \$218,228
Prin. Invest.: G M FAETH, NONE
Tech. Officer: GRC/D URBAN
CASE Category: 46 - MECHANICAL ENGR

NAG 3 2406 **UNIV OF MICHIGAN - ANN ARBOR** **5916**
 USING NONLINEARITY AND CONTACT LINES TO CONTROL FLUID FLOW IN
 MICROGRAVITY
 04/27/2000 - 11/30/2003 FY01: \$56,963 Total: \$106,882
Prin. Invest.: M PERLIN
Tech. Officer: GRC/C LEK
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2497 **UNIV OF MICHIGAN - ANN ARBOR** **5917**
 MODELING THE PERFORMANCE AND LIFETIME OF ION THRUSTERS
 10/27/2000 - 10/22/2001 FY01: \$50,653 Total: \$50,653
Prin. Invest.: I D BOYD
Tech. Officer: GRC/G SOULAS
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 3 2530 **UNIV OF MICHIGAN - ANN ARBOR** **5918**
 LONG TERM RELIABILITY OF HIGH SPEED SIGE/SI HETERO JUNCTION
 BIPOLAR TRANSISTORS
 01/23/2001 - 01/31/2002 FY01: \$69,886 Total: \$69,886
Prin. Invest.: P BHATTACHARYA
Tech. Officer: GRC/G E PONCHAK
CASE Category: 45 - ELECTRICAL ENGR

NAG 3 2582 **UNIV OF MICHIGAN - ANN ARBOR** **5919**
 APPLICATION OF NANOTUBES TO WEIGHT REDUCTION IN ROCKETCRAFT
 DRIVE SYSTEMS
 04/02/2001 - 10/01/2001 FY01: \$60,032 Total: \$60,032
Prin. Invest.: P P FRIEDMAN
Tech. Officer: GRC/W MORALES
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2604 **UNIV OF MICHIGAN - ANN ARBOR** **5920**
 ADVANCED VIBRATION ANALYSIS TOOLS AND NEW STRATEGIES FOR
 ROBUST DESIGN OF TURBINE ENGINE ROTORS
 05/23/2001 - 05/31/2005 FY01: \$50,000 Total: \$50,000
Prin. Invest.: C PIERRE
Tech. Officer: GRC/O MEHMED
CASE Category: 46 - MECHANICAL ENGR

NAG 5 2869 **UNIV OF MICHIGAN - ANN ARBOR** **5921**
 STAR FORMATION STUDIES: DYNAMICS AND INFRARED SIGNATURES
 01/12/1995 - 07/14/2001 FY01: \$0 Total: \$225,000
Prin. Invest.: F C ADAMS
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 3168 **UNIV OF MICHIGAN - ANN ARBOR** **5922**
 BUDGET OF NITROGEN COMPOUNDS IN THE GLOBAL ATMOSPHERE:
 OBSERVATIONS-BASED CLIMATOLOGIES
 02/14/1996 - 08/31/2000 FY01: -\$1,147 Total: \$143,653
Prin. Invest.: M A CARROLL, G BRASSEUR
Tech. Officer: GSFC/R W STEWART
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 3247 **UNIV OF MICHIGAN - ANN ARBOR** **5923**
 THE HOT INTERSTELLAR MEDIUM IN SPIRAL, ELLIPTICALS, AND CLUS-
 TERS OF GALAXIES
 05/30/1996 - 04/30/2001 FY01: \$0 Total: \$516,000
Prin. Invest.: J N BREGMAN
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 4007 **UNIV OF MICHIGAN - ANN ARBOR** **5924**
 DYNAMICAL VARIATIONS IN THE MESOSPHERE AND LOWER T AND INTER-
 ANNUAL VARIABILITY
 03/06/1997 - 09/30/2001 FY01: \$0 Total: \$213,729
Prin. Invest.: D D SKINNER
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 - PHYSICS

NAG 5 4264 **UNIV OF MICHIGAN - ANN ARBOR** **5925**
 THEORETICAL STUDIES AND SATELLITE DATA ANALYSIS OF LOWER THER-
 MOSPHERE
 04/07/1997 - 04/14/2000 FY01: \$0 Total: \$257,488
Prin. Invest.: D L KILLEEN
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 - PHYSICS

NAG 5 4271 **UNIV OF MICHIGAN - ANN ARBOR** **5926**
 STUDIES OF THE THERMOSPHERIC RESPONSE TO GEOMAGNETIC MINIMUM
 CONDITIONS
 04/03/1997 - 04/30/2000 FY01: -\$74 Total: \$219,225
Prin. Invest.: D BURNS
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 - PHYSICS

NAG 5 4381 **UNIV OF MICHIGAN - ANN ARBOR** **5927**
 STUDIES OF TENUOUS PLANETARY ATMOSPHERES
 04/29/1997 - 12/31/2001 FY01: \$55,000 Total: \$254,455
Prin. Invest.: D R COMBI
Tech. Officer: GSFC/D BOGAN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 4589 **UNIV OF MICHIGAN - ANN ARBOR** **5928**
 A PROGRAM FOR RESEARCH IN PLANETARY ATMOSPHERES: P COUPLED
 CLOUD PHYSICS
 05/23/1997 - 12/31/2001 FY01: \$0 Total: \$249,000
Prin. Invest.: P K ATREYA
Tech. Officer: GSFC/R BEEBE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7032 UNIV OF MICHIGAN - ANN ARBOR 5945
 MODELS OF RELATIVISTIC EXTRAGALACTIC JETS AND THE INTERPRETATION OF VSOPDATA- ATP
 02/17/1998 - 02/14/2000 FY01: \$0 Total: \$40,700
Prin. Invest.: P A HUGHES
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 7474 UNIV OF MICHIGAN - ANN ARBOR 5946
 HIGH RESOLUTION DOPPLER IMAGER - OPERATIONS AND ALGORITHM-MAINTENANCE
 06/23/1998 - 06/30/2001 FY01: \$101,500 Total: \$672,000
Prin. Invest.: W SKINNER
Tech. Officer: GSFC/C H JACKMAN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7553 UNIV OF MICHIGAN - ANN ARBOR 5947
 APPLICATION OF MC-ICPMS TO THE MEASUREMENT OF ISOTOPIC ANOMALIES IN ZR, MO, RU, SN, TE AND W
 06/23/1998 - 06/30/2000 FY01: \$0 Total: \$120,000
Prin. Invest.: A N HALLIDAY
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 7557 UNIV OF MICHIGAN - ANN ARBOR 5948
 GGS/POLAR TIDE CO-INVESTIGATOR PROGRAM MO&DA SUPPLEMENTAL FUNDS
 06/25/1998 - 06/30/2001 FY01: \$0 Total: \$124,000
Prin. Invest.: A NAGEY
Tech. Officer: GSFC/R HOFFMAN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 7569 UNIV OF MICHIGAN - ANN ARBOR 5949
 PROVIDING THE GLOBAL MODELING INITIATIVE WITH MODELING AND ANALYSIS OF AEROSOLS EFFECTS
 07/09/1998 - 07/31/2001 FY01: \$0 Total: \$225,273
Prin. Invest.: J E PENNER
Tech. Officer: GSFC/R W STEWART
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7681 UNIV OF MICHIGAN - ANN ARBOR 5950
 DEFINING A CLIMATOLOGY AND THE EFFECTS OF ABSORBING AEROSOLS: MODELS AND MEASUREMENTS
 09/04/1998 - 08/31/2002 FY01: \$160,000 Total: \$480,000
Prin. Invest.: J PENNER
Tech. Officer: GSFC/M I MISHCHENKO
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7858 UNIV OF MICHIGAN - ANN ARBOR 5951
 MEASUREMENT OF ABSOLUTE DIFFERENTIAL CROSS SECTIONS FOR THE COLLISIONS OF ELECTRONS WITH PLANETARY
 01/05/1999 - 03/31/2001 FY01: \$0 Total: \$127,100
Prin. Invest.: D SHYN
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 - ASTRONOMY

NAG 5 7860 UNIV OF MICHIGAN - ANN ARBOR 5952
 THE SOLAR SYSTEM BEYOND PLUTO
 01/06/1999 - 12/31/2001 FY01: \$46,005 Total: \$152,586
Prin. Invest.: D M BERNSTEIN
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 - ASTRONOMY

NAG 5 8080 UNIV OF MICHIGAN - ANN ARBOR 5953
 STATE-TO-STATE RATE CONSTANTS FOR COMPUTATION OF NON-LTE INFRARED RADIATIVE TRANSFER IN THE M
 01/15/1999 - 03/31/2002 FY01: \$95,000 Total: \$279,500
Prin. Invest.: D R BARKER
Tech. Officer: GSFC/M MELLOTT
CASE Category: 11 - ASTRONOMY

NAG 5 8238 UNIV OF MICHIGAN - ANN ARBOR 5954
 MASSIVE BLACK HOLES AND THE CENTERS OF GALAXIES (LTA98)
 02/25/1999 - 02/28/2002 FY01: \$111,098 Total: \$261,042
Prin. Invest.: D O RICHSTONE
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8458 UNIV OF MICHIGAN - ANN ARBOR 5955
 MODELING OF X-RAY CLUSTERS (ATP 98)
 04/15/1999 - 04/14/2002 FY01: \$43,000 Total: \$124,000
Prin. Invest.: A E EVRARD
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 8494 UNIV OF MICHIGAN - ANN ARBOR 5956
 EXTEND THE DEVELOPMENT OF THE SPACE WEATHER TOPIC, AND ALSO THE SPACE MISSIONS SECTION TO INCLUDE
 05/04/1999 - 12/31/2000 FY01: \$0 Total: \$150,000
Prin. Invest.: R M JOHNSON
Tech. Officer: GSFC/A F HASLER
CASE Category: 11 - ASTRONOMY

NAG 5 8630 UNIV OF MICHIGAN - ANN ARBOR 5957
 HIERARCHICAL INVESTIGATION OF SOCIOECONOMIC DRIVER OF DECADAL SCALE LAND-COVER CHANGES IN THE UPPER
 08/11/1999 - 04/30/2001 FY01: \$0 Total: \$73,879
Prin. Invest.: D G BROWN
Tech. Officer: GSFC/J RANSON
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8661 UNIV OF MICHIGAN - ANN ARBOR 5958
 MOISTURE TRANSPORT AND RADIOBRIGHTNESS MODELS FOR COMPLEX VEGETATION
 07/01/1999 - 06/30/2002 FY01: \$115,000 Total: \$307,050
Prin. Invest.: A W ENGLAND
Tech. Officer: GSFC/P T HOUSER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8715 UNIV OF MICHIGAN - ANN ARBOR 5959
 DYNAMICS IN THE COMET ENVIRONMENT
 08/03/1999 - 07/31/2002 FY01: \$24,000 Total: \$70,500
Prin. Invest.: D J SCHEERES
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8719 UNIV OF MICHIGAN - ANN ARBOR 5960
 HIERARCHICAL INVESTIGATION OF SOCIOECONOMIC DRIVER S OF
 DECADAL SCALE LAND-COVER CHANGES IN THE UPPE
 08/02/1999 - 04/30/2001 FY01: \$0 Total: \$51,250
Prin. Invest.: D G BROWN
Tech. Officer: GSFC/J RANSON
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8845 UNIV OF MICHIGAN - ANN ARBOR 5961
 CASSINI-HUYGENS GAS CHROMATOGRAPH MASS SPECTROMETE R
 SCIENCE SUPPORT
 10/25/1999 - 10/31/2001 FY01: \$25,000 Total: \$50,000
Prin. Invest.: S K ATREYA
Tech. Officer: GSFC/J E RICHARDS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 8930 UNIV OF MICHIGAN - ANN ARBOR 5962
 SOLID EARTH AND NATURAL HAZARDS RESEARCH AND APPLI CATIONS
 01/13/2000 - 01/14/2002 FY01: \$75,000 Total: \$150,000
Prin. Invest.: K SARABANDI
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 8942 UNIV OF MICHIGAN - ANN ARBOR 5963
 THE DISTRIBUTION OF GASES IN THE INNER COMAE OF COMETS
 01/14/2000 - 01/14/2002 FY01: \$100,000 Total: \$220,000
Prin. Invest.: M R COMBI
Tech. Officer: GSFC/D BOGAN
CASE Category: 11 - ASTRONOMY

NAG 5 8946 UNIV OF MICHIGAN - ANN ARBOR 5964
 STUDIES OF SOLAR WIND INTERACTION AND IONOSPHERIC PROCESSES
 AT VENUS AND MARS
 01/14/2000 - 03/31/2002 FY01: \$94,923 Total: \$179,923
Prin. Invest.: A NAGY
Tech. Officer: GSFC/D BOGAN
CASE Category: 11 - ASTRONOMY

NAG 5 8963 UNIV OF MICHIGAN - ANN ARBOR 5965
 FUSE SPECTRA OF LYMAN SERIES EMISSIONS FROM THE IN TERPLANE-
 TARY MEDIUM - FUSE
 01/24/2000 - 01/31/2002 FY01: \$0 Total: \$38,400
Prin. Invest.: J T CLARKE
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 8993 UNIV OF MICHIGAN - ANN ARBOR 5966
 DYNAMICS IN THE EROS ENVIRONMENT
 01/24/2000 - 12/31/2001 FY01: \$0 Total: \$66,124
Prin. Invest.: D J SCHEERES
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 - ASTRONOMY

NAG 5 8996 UNIV OF MICHIGAN - ANN ARBOR 5967
 H2 AS THE PRIMARY GAS COMPONENT AT LARGE GALACTIC RADIUS -
 FUSE
 01/24/2000 - 01/31/2002 FY01: \$0 Total: \$30,300
Prin. Invest.: J N BREGMAN, NONE
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 9017 UNIV OF MICHIGAN - ANN ARBOR 5968
 DYNAMICS OF THE ASTEROID ENVIRONMENT
 02/02/2000 - 01/31/2002 FY01: \$22,000 Total: \$43,000
Prin. Invest.: D J SCHEERES
Tech. Officer: GSFC/J GRANT
CASE Category: 11 - ASTRONOMY

NAG 5 9021 UNIV OF MICHIGAN - ANN ARBOR 5969
 DO ELLIPTICAL GALAXY COOLING FLOWS ACTUALLY COOL? - FUSE
 02/03/2000 - 02/14/2002 FY01: \$0 Total: \$31,000
Prin. Invest.: J N BREGMAN
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 9162 UNIV OF MICHIGAN - ANN ARBOR 5970
 RXTE OBSERVATIONS OF SELECTED BLAZARS - ADP - 99
 03/14/2000 - 03/14/2002 FY01: \$0 Total: \$17,425
Prin. Invest.: M ALLER
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9355 UNIV OF MICHIGAN - ANN ARBOR 5971
 GEOMAGNETIC STORM STUDIES AT LOW LATITUDES
 04/04/2000 - 04/14/2001 FY01: \$0 Total: \$36,200
Prin. Invest.: A BURNS
Tech. Officer: GSFC/M MELLOTT
CASE Category: 13 - PHYSICS

NAG 5 9406 UNIV OF MICHIGAN - ANN ARBOR 5972
 HIGH PERFORMANCE PARALLEL METHODS FOR SPACE WEATHER SIMULA-
 TION
 04/10/2000 - 04/30/2002 FY01: \$165,800 Total: \$325,700
Prin. Invest.: T GOMBOSI
Tech. Officer: GSFC/J BREDEKAMP
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9464 UNIV OF MICHIGAN - ANN ARBOR 5973
 A MASSIVELY PARALLEL PARTICLE CODE FOR RARIFIED IONIZED &
 NEUTRAL GAS FLOWS IN EARTH & PLANETARY
 04/18/2000 - 04/14/2003 FY01: \$116,600 Total: \$233,600
Prin. Invest.: M COMBI
Tech. Officer: GSFC/J BREDEKAMP
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9536 UNIV OF MICHIGAN - ANN ARBOR 5974
 NEW GRANT EXTENDED SOLAR MAX: INVESTIGATION OF THE SOLAR-
 WIND MAGNETOSPHER-IONOSPHERE COUPLING
 05/04/2000 - 11/14/2001 FY01: \$0 Total: \$50,000
Prin. Invest.: C CLAUER
Tech. Officer: GSFC/R HOFFMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 9762 UNIV OF MICHIGAN - ANN ARBOR 5975
 DESIGN STUDY OF A SYNTHETIC APERTURE PRECIPITATION RADIOMETER
 08/03/2000 - 07/31/2002 FY01: \$95,000 Total: \$248,283
Prin. Invest.: C RUF
Tech. Officer: GSFC/C M PRINCIPE
CASE Category: 45 - ELECTRICAL ENGR

<p>NAG 5 9967 UNIV OF MICHIGAN - ANN ARBOR 5976 A SMALL, LIGHTWEIGHT RADIOMETER TO IMPROVE THE TEM PORAL SAMPLING OF RAINFALL. 10/30/2000 - 01/31/2001 FY01: \$21,630 Total: \$21,630 <i>Prin. Invest.:</i> C S RUF <i>Tech. Officer:</i> GSFC/C D KUMMEROW <i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE</p>	<p>NAG 5 10552 UNIV OF MICHIGAN - ANN ARBOR 5984 ASU/MICHIGAN COLLABORATION: THE ABUNDANCE & ISOTOP IC COMPOSITION OF HG IN EXTRATERRESTRIAL MATERIAL 03/09/2001 - 03/14/2002 FY01: \$20,000 Total: \$20,000 <i>Prin. Invest.:</i> J BLUM <i>Tech. Officer:</i> GSFC/J BOYCE <i>CASE Category:</i> 12 - CHEMISTRY</p>
<p>NAG 5 9980 UNIV OF MICHIGAN - ANN ARBOR 5977 METAL ENRICHMENT MECHANISMS IN ABELL 2199 & ABELL 3571 09/13/2000 - 09/14/2002 FY01: \$15,600 Total: \$31,700 <i>Prin. Invest.:</i> J N BREGMAN <i>Tech. Officer:</i> GSFC/R MUSHOTZKY <i>CASE Category:</i> 11 - ASTRONOMY</p>	<p>NAG 5 10765 UNIV OF MICHIGAN - ANN ARBOR 5985 X-RAY ABSRPTION STUDIES; COOLING FLOWS (LTS-2000) 04/23/2001 - 04/30/2002 FY01: \$110,000 Total: \$110,000 <i>Prin. Invest.:</i> J N BREGMAN <i>Tech. Officer:</i> GSFC/R J OLIVERSEN <i>CASE Category:</i> 11 - ASTRONOMY</p>
<p>NAG 5 9981 UNIV OF MICHIGAN - ANN ARBOR 5978 1HE NATURE OF THE X-RAY EMISSION IN SA BULGES 09/13/2000 - 09/14/2002 FY01: \$15,600 Total: \$31,600 <i>Prin. Invest.:</i> J N BREGMAN <i>Tech. Officer:</i> GSFC/R MUSHOTZKY <i>CASE Category:</i> 11 - ASTRONOMY</p>	<p>NAG 5 10805 UNIV OF MICHIGAN - ANN ARBOR 5986 CONCEPT STUDY FOR THE "THE HEAVY NUCLEI EXPLORER" (HNX) MISSIONAO-99-OSS-05 04/30/2001 - 04/30/2002 FY01: \$57,700 Total: \$57,700 <i>Prin. Invest.:</i> D TARLE <i>Tech. Officer:</i> GSFC/J R BYRD <i>CASE Category:</i> 11 - ASTRONOMY</p>
<p>NAG 5 10036 UNIV OF MICHIGAN - ANN ARBOR 5979 A MODULAR CODE FOR A COMMUNITY VERSION OF THE MICH IGAN LSP/R MODEL 10/31/2000 - 04/30/2002 FY01: \$35,000 Total: \$35,000 <i>Prin. Invest.:</i> A ENGLAND <i>Tech. Officer:</i> GSFC/P E O'NEILL <i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER</p>	<p>NAG 5 10806 UNIV OF MICHIGAN - ANN ARBOR 5987 RXTE OBSERVATIONS OF SELECTED BLAZARS - ADP - 99 04/23/2001 - 04/30/2002 FY01: \$57,171 Total: \$57,171 <i>Prin. Invest.:</i> J N BREGMAN <i>Tech. Officer:</i> GSFC/R J OLIVERSEN <i>CASE Category:</i> 11 - ASTRONOMY</p>
<p>NAG 5 10138 UNIV OF MICHIGAN - ANN ARBOR 5980 NOZOMI NEUTRAL MASS SPECTROMETER SCIENCE SUPPORT 12/12/2000 - 12/14/2001 FY01: \$15,000 Total: \$15,000 <i>Prin. Invest.:</i> S K ATREYA <i>Tech. Officer:</i> GSFC/J E RICHARDS <i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE</p>	<p>NAG 5 10812 UNIV OF MICHIGAN - ANN ARBOR 5988 HIGH RESOLUTION DOPPLER IMAGER - OPERATIONS AND ALGORITHM MAINTENANCE. 05/02/2001 - 09/30/2001 FY01: \$72,500 Total: \$72,500 <i>Prin. Invest.:</i> W R SKINNER <i>Tech. Officer:</i> GSFC/C H JACKMAN <i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE</p>
<p>NAG 5 10181 UNIV OF MICHIGAN - ANN ARBOR 5981 NOZOMI NEUTRAL MASS SPECTROMETER SCIENCE SUPPORT - DEVELOPING UPPER ATMOSPHERIC, EXOSPHERIC MODELS 01/18/2001 - 01/31/2002 FY01: \$15,000 Total: \$15,000 <i>Prin. Invest.:</i> A F NAGY <i>Tech. Officer:</i> GSFC/J E RICHARDS <i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE</p>	<p>NAG 5 10850 UNIV OF MICHIGAN - ANN ARBOR 5989 SUPERPOSED EPOCH ANALYSIS OF RING CURRENT GEO- EFFECTIVENESS RELATED TO SOLAR WIND & PLASMA SHEET 05/07/2001 - 05/14/2002 FY01: \$107,276 Total: \$107,276 <i>Prin. Invest.:</i> M W LIEMOHN <i>Tech. Officer:</i> GSFC/J F SPANN <i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE</p>
<p>NAG 5 10297 UNIV OF MICHIGAN - ANN ARBOR 5982 PHYSICAL RESPONSE OF THE INNER MAGNETOSPHERE TO GE OEFFEC-TIVE SOLAR WIND DRIVERS: ENERGY DISSIPATION 02/15/2001 - 01/31/2002 FY01: \$47,000 Total: \$47,000 <i>Prin. Invest.:</i> K KOZYRA <i>Tech. Officer:</i> GSFC/J SHARBER <i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER</p>	<p>NAG 5 10887 UNIV OF MICHIGAN - ANN ARBOR 5990 POLAR/TIDE 05/07/2001 - 05/14/2002 FY01: \$50,000 Total: \$50,000 <i>Prin. Invest.:</i> A NAGY <i>Tech. Officer:</i> GSFC/R HOFFMAN <i>CASE Category:</i> 19 - PHYSICAL SCIENCE, OTHER</p>
<p>NAG 5 10336 UNIV OF MICHIGAN - ANN ARBOR 5983 SELF-RELIANT, HIGH RESOLUTION IMAGING USING FORMAT ION FLYING SPACECRAFT 02/07/2001 - 01/14/2002 FY01: \$355,697 Total: \$355,697 <i>Prin. Invest.:</i> D HYLAND <i>Tech. Officer:</i> GSFC/J A LEITNER <i>CASE Category:</i> 41 - AERONAUTICAL ENGNR</p>	<p>NAG 5 10907 UNIV OF MICHIGAN - ANN ARBOR 5991 2001: A SPACETIME ODYSSEY 05/22/2001 - 05/31/2002 FY01: \$12,500 Total: \$12,500 <i>Prin. Invest.:</i> K FREESE <i>Tech. Officer:</i> GSFC/D GOLOMBEK <i>CASE Category:</i> 11 - ASTRONOMY</p>

NAG 5 10975 UNIV OF MICHIGAN - ANN ARBOR 5992
 A PREDICTIVE MODEL FOR THE MAGNETIC FIELD IN THE HELIOSPHERE
 05/29/2001 - 05/31/2002 FY01: \$69,365 Total: \$69,365
Prin. Invest.: L A FINK
Tech. Officer: GSFC/W J WAGNER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 11000 UNIV OF MICHIGAN - ANN ARBOR 5993
 SOLAR WIND STRUCTURE IN THE INNER HELIOSPHERE: RATIONALE FOR
 THE LOCATION OF THE SENTINEL MISSION
 06/06/2001 - 05/31/2002 FY01: \$79,603 Total: \$79,603
Prin. Invest.: T H ZURBUCHEN
Tech. Officer: GSFC/W J WAGNER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 11004 UNIV OF MICHIGAN - ANN ARBOR 5994
 RESEARCH IN PLANETARY ATMOSPHERES-JUPITER & TITAN
 06/08/2001 - 09/14/2002 FY01: \$90,000 Total: \$90,000
Prin. Invest.: S K ATREYA
Tech. Officer: GSFC/D BOGAN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 11031 UNIV OF MICHIGAN - ANN ARBOR 5995
 INTEGRATED MODELING STUDY OF THE EFFECTS OF MAGNETOSPHERIC
 FORCING ON THE JOVIAN IONOSPHERE-THERMOSPHERE
 06/11/2001 - 05/30/2002 FY01: \$90,000 Total: \$90,000
Prin. Invest.: J H WAITE
Tech. Officer: GSFC/D J BOGAN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 11041 UNIV OF MICHIGAN - ANN ARBOR 5996
 MODELING OF COMETARY ATMOSPHERES
 06/12/2001 - 06/14/2002 FY01: \$90,000 Total: \$90,000
Prin. Invest.: T I GOMBOSI
Tech. Officer: GSFC/D J BOGAN
CASE Category: 11 - ASTRONOMY

NAG 5 11068 UNIV OF MICHIGAN - ANN ARBOR 5997
 DYNAMICAL STUDIES OF THE MIDDLE ATMOSPHERE USING HIGH RESOLU-
 TION DOPPLER IMAGER OBSERVATIONS
 07/09/2001 - 07/14/2002 FY01: \$86,667 Total: \$86,667
Prin. Invest.: W R SKINNER
Tech. Officer: GSFC/C JACKMAN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 11084 UNIV OF MICHIGAN - ANN ARBOR 5998
 MODELING SIBERIAN BOREAL FOREST LAND-COVER CHANGE AND
 CARBON UNDER CHANGING ECONOMIC PARADIGMS
 07/20/2001 - 08/14/2002 FY01: \$96,393 Total: \$96,393
Prin. Invest.: K BERGEN
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 11187 UNIV OF MICHIGAN - ANN ARBOR 5999
 MGS MAG/ER DATA ANALYSIS USING A TIME AND MAGNETIC FIELD
 DEPENDENT ELECTRON TRANSPORT MODEL
 08/08/2001 - 08/31/2004 FY01: \$90,000 Total: \$90,000
Prin. Invest.: M C LIEMOHN
Tech. Officer: GSFC/J BOYCE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 11271 UNIV OF MICHIGAN - ANN ARBOR 6000
 DEVELOPING LAND COVER SCENARIOS IN METROPOLITAN AND NON-
 METROPOLITAN MICHIGAN
 08/23/2001 - 08/31/2004 FY01: \$119,410 Total: \$119,410
Prin. Invest.: D BROWN
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 11275 UNIV OF MICHIGAN - ANN ARBOR 6001
 TRACE GAS/AEROSOL INTERACTIONS AND GMI MODELING SUPPORT
 08/22/2001 - 08/31/2004 FY01: \$100,051 Total: \$100,051
Prin. Invest.: J PENNER
Tech. Officer: GSFC/P DECOLA
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1725 UNIV OF MICHIGAN - ANN ARBOR 6002
 FIELD-REVERSED END PLUGGING FOR THE GASDYNAMIC MIRROR
 MACHINE
 07/26/2000 - 06/30/2001 FY01: \$0 Total: \$20,000
Prin. Invest.: T KAMMASH
Tech. Officer: MSFC/W F EMRICH
CASE Category: 46 - MECHANICAL ENGR

NAG 9 1154 UNIV OF MICHIGAN - ANN ARBOR 6003
 IMPACT OF MICROGRAVITY ON DRUG AND NUTRIENT ABSORPTION
 02/03/2000 - 01/31/2003 FY01: \$191,532 Total: \$352,052
Prin. Invest.: G L AMIDON
Tech. Officer: JSC/C LLOYD
CASE Category: 61 - PSYCHOLOGY BIOLOGY

NAG 9 1167 UNIV OF MICHIGAN - ANN ARBOR 6004
 DEVELOP ADVANCED MILLIMETERWAVE INTERFEROMETER FOR
 PLASMA DIAGNOSTICS
 09/22/1999 - 06/30/2001 FY01: \$0 Total: \$44,000
Prin. Invest.: B E GILCHRIST
Tech. Officer: JSC/F R CHANG-DIAZ
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 9 1251 UNIV OF MICHIGAN - ANN ARBOR 6005
 OPTICAL SEARCHES FOR GEOSYNCHRONOUS ORBITAL DEBRIS
 08/01/2000 - 07/31/2002 FY01: \$0 Total: \$106,787
Prin. Invest.: P O SEITZER
Tech. Officer: JSC/E G STANSBERRY
CASE Category: 11 - ASTRONOMY

NAG 9 1373 UNIV OF MICHIGAN - ANN ARBOR 6006
 AN OPTICAL SURVEY FOR SPACE DEBRIS IN GEOSYNCHRONOUS
 08/15/2001 - 09/30/2002 FY01: \$229,381 Total: \$229,381
Prin. Invest.: P O SEITZER
Tech. Officer: JSC/E G STANSBERRY
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG13 99024 UNIV OF MICHIGAN - ANN ARBOR 6007
 FOREST STRUCTURE FROM MULTI-SPECTRAL FUSION SAME
 08/25/1999 - 08/19/2002 FY01: \$228,000 Total: \$430,010
Prin. Invest.: M DOBSON
Tech. Officer: SSC/R MCKELLIP
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

<p>NAS 5 32989 UNIV OF MICHIGAN - ANN ARBOR 6008 PROVIDE ENGINEERING SUPPORT IN THE DEFINITION DESIGN AND TEST OF THE PLANET-B NMS 01/25/1996 - 09/30/2000 FY01: \$42,341 Total: \$1,394,596 <i>Prin. Invest.:</i> G CARIGNAN <i>Tech. Officer:</i> GSFC/S WAY <i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE</p>	<p>NCC 3 482 UNIV OF MICHIGAN - ANN ARBOR 6016 RADIANT EXTINCTION OF GASOUS DIFFUSION FLAMES 06/15/1996 - 12/14/2001 FY01: \$0 Total: \$359,000 <i>Prin. Invest.:</i> A ATREYA <i>Tech. Officer:</i> GRC/K SACKSTEADER <i>CASE Category:</i> 13 - PHYSICS</p>
<p>NAS 5 99174 UNIV OF MICHIGAN - ANN ARBOR 6009 PROVIDE SUPPORT, DESIGN, DEVELOPMENT OF THE NGIMS EXPERIMENT FOR THE COMET NUCLEUS TOUR (CONTOUR) 04/02/1999 - 08/25/2002 FY01: \$308,438 Total: \$1,904,362 <i>Prin. Invest.:</i> G ARIGNAN <i>Tech. Officer:</i> GSFC/J RICHARDS <i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE</p>	<p>NCC 3 656 UNIV OF MICHIGAN - ANN ARBOR 6017 FLAME VORTEX INTERACTIONS IN MICROGRAVITY TO ASSES S THE THEORY OF FLAME STRETCH 01/12/1999 - 12/03/2002 FY01: \$142,550 Total: \$350,050 <i>Prin. Invest.:</i> J F DRISCOLL <i>Tech. Officer:</i> GRC/J E BROOKER <i>CASE Category:</i> 49 - ENGINEERING, OTHER</p>
<p>NAS 8 37108 UNIV OF MICHIGAN - ANN ARBOR 6010 STUDY ENTITLED "RESEARCH ON ORBITAL PLASMA-ELECTRODYNAMICS (ROPE)." 04/14/1987 - 12/31/1999 FY01: \$4,765 Total: \$66,428 <i>Prin. Invest.:</i> B GILCHRIST <i>Tech. Officer:</i> MSFC/M W CASTLEMANN, MSFC/R HOLDER <i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE</p>	<p>NCC 3 661 UNIV OF MICHIGAN - ANN ARBOR 6018 FLOW/SOOT-FORMATION IN NONBOUYANT LAMINAR DIFFUSION FLAMES 01/21/1999 - 12/29/2002 FY01: \$94,970 Total: \$257,365 <i>Prin. Invest.:</i> G M FAETH, NONE <i>Tech. Officer:</i> GRC/K SACKSTEDER <i>CASE Category:</i> 49 - ENGINEERING, OTHER</p>
<p>NAS 8 99127 UNIV OF MICHIGAN - ANN ARBOR 6011 R/S ICARUS SATELLITE FOR PROSEDS 06/23/1999 - 12/31/2001 FY01: \$138,397 Total: \$400,213 <i>Prin. Invest.:</i> G E GILCHRIST <i>Tech. Officer:</i> MSFC/K J WELZYN <i>CASE Category:</i> 42 - ASTRONAUTICAL ENGR</p>	<p>NCC 3 663 UNIV OF MICHIGAN - ANN ARBOR 6019 TURBULENT FLAME PROCESSES VIA VORTEX-RING DIFFUSION FLAME INTERACTION 01/15/1999 - 12/30/2002 FY01: \$85,500 Total: \$237,819 <i>Prin. Invest.:</i> W DAHM <i>Tech. Officer:</i> GRC/K R SACKSTEDER <i>CASE Category:</i> 49 - ENGINEERING, OTHER</p>
<p>NAS 8 99128 UNIV OF MICHIGAN - ANN ARBOR 6012 RESEARCH ENTITLED PROCEEDS UMPHS PHASE D & E 07/30/1999 - 12/31/2001 FY01: \$436,038 Total: \$1,040,693 <i>Prin. Invest.:</i> B GILCHRIST <i>Tech. Officer:</i> MSFC/J L BALATICE, MSFC/L JOHNSON <i>CASE Category:</i> 42 - ASTRONAUTICAL ENGR</p>	<p>NCC 3 723 UNIV OF MICHIGAN - ANN ARBOR 6020 GAS SEPARATION & PRESSURIZATION FOR EXTRATERRESTRIAL EXPLORATION 07/07/1999 - 12/31/2001 FY01: \$0 Total: \$40,000 <i>Prin. Invest.:</i> M KAVIANY, NONE <i>Tech. Officer:</i> GRC/E S NELSON <i>CASE Category:</i> 49 - ENGINEERING, OTHER</p>
<p>NCC 1 01050 UNIV OF MICHIGAN - ANN ARBOR 6013 RESPONSE OF STRONGLY ANISOTROPIC LAMINATED PANELS UNDER COMBINED LOADS 05/08/2001 - 01/31/2002 FY01: \$50,148 Total: \$50,148 <i>Prin. Invest.:</i> A P WAAS <i>Tech. Officer:</i> LARC/M P NEMETH <i>CASE Category:</i> 47 - METAL & MATERIALS ENGR</p>	<p>NCC 3 790 UNIV OF MICHIGAN - ANN ARBOR 6021 SYSTEM ON A CHIP: ACTIVE COMPONENTS OF THE RF FRONT END 04/04/2000 - 02/28/2003 FY01: \$199,584 Total: \$299,380 <i>Prin. Invest.:</i> L P KATEHI <i>Tech. Officer:</i> GRC/G E PONCHAK <i>CASE Category:</i> 45 - ELECTRICAL ENGR</p>
<p>NCC 2 856 UNIV OF MICHIGAN - ANN ARBOR 6014 EFFECTS OF MICROGRAVITY ON DEVELOPMENT OF THIGH MUSCLES 05/25/1994 - 12/31/2001 FY01: \$0 Total: \$384,998 <i>Prin. Invest.:</i> K I CLARK, K F BARALD <i>Tech. Officer:</i> ARC/D A REISS-BUBENHEIM, ARC/C M WINGET <i>CASE Category:</i> 51 - BIOLOGY (EXCLUDING ENVIR)</p>	<p>NCC 3 837 UNIV OF MICHIGAN - ANN ARBOR 6022 LOW COST, LOW POWER COMPONENTS FOR TRANSMIT/RECEIVE PHASE ARRAY ANTENNAS 12/20/2000 - 12/31/2001 FY01: \$226,564 Total: \$226,564 <i>Prin. Invest.:</i> L P KATEHI <i>Tech. Officer:</i> GRC/G E PONCHAK <i>CASE Category:</i> 45 - ELECTRICAL ENGR</p>
<p>NCC 2 5442 UNIV OF MICHIGAN - ANN ARBOR 6015 THE EVOLUTION AND DISPERSAL OF PROTOSTELLAR DISKS 07/11/2001 - 06/30/2002 FY01: \$14,833 Total: \$14,833 <i>Prin. Invest.:</i> F C ADAMS <i>Tech. Officer:</i> ARC/G P LAUGHIN, ARC/D J HOLLENBACH <i>CASE Category:</i> 11 - ASTRONOMY</p>	<p>NCC 5 146 UNIV OF MICHIGAN - ANN ARBOR 6023 RESEARCH FOR GRAND CHALLENGE APPLICATIONS 08/02/1996 - 06/30/2000 FY01: \$0 Total: \$1,400,000 <i>Prin. Invest.:</i> T GOMBOSI <i>Tech. Officer:</i> GSFC/J R FISCHER <i>CASE Category:</i> 29 - MATH/COMPUTER SCI, OTHER</p>

NCC 5 296 **UNIV OF MICHIGAN - ANN ARBOR** **6024**
 RADAR REMOTE SENSING OF LAND-COVER AND BIOMASS IN THE
 AMAZON
 06/16/1998 - 12/31/2001 FY01: \$150,565 Total: \$657,456
Prin. Invest.: M C DOBSON
Tech. Officer: GSFC/D W DEERING
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 5 383 **UNIV OF MICHIGAN - ANN ARBOR** **6025**
 COLLABORATIVE EDUCATION AND PUBLIC OUTREACH ACTIVITIES BY
 WINDOWS TO THE UNIVERSE PROJECT IN SUPPORT
 02/24/1999 - 02/28/2001 FY01: \$485 Total: \$50,000
Prin. Invest.: L FISK
Tech. Officer: GSFC/M H ACUNA
CASE Category: 13 - PHYSICS

NCC 8 181 **UNIV OF MICHIGAN - ANN ARBOR** **6026**
 GLOBAL SIMULATIONS OF CORE PLASMA DENSITIES, COMPOSITION AND
 TEMPERATURE. NASA NRA98-OSS-03.
 06/07/1999 - 06/06/2002 FY01: \$36,415 Total: \$80,401
Prin. Invest.: M LIEMOHN
Tech. Officer: MSFC/D GALLAGHER
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NGT 2 52257 **UNIV OF MICHIGAN - ANN ARBOR** **6027**
 SEARCHING EXTRASOLAR PLANETS USING DIFFERENTIAL PHOTOMETRY
 07/23/1999 - 07/14/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: F C ADAMS
Tech. Officer: ARC/J J LISSAUER
CASE Category: 11 - ASTRONOMY

NGT 2 52269 **UNIV OF MICHIGAN - ANN ARBOR** **6028**
 SIMULTANEOUS VIBRATION & BVI NOISE REDUCTION IN ROTORCRAFT
 USING ACTIVELY CONTROLLED TRAILING-EDGE
 08/11/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: P P FRIEDMAN, NONE
Tech. Officer: ARC/W WARMBRODT
CASE Category: 41 - AERONAUTICAL ENGR

NGT 3 52348 **UNIV OF MICHIGAN - ANN ARBOR** **6029**
 GRADUATE STUDENT RESEARCHERS PROGRAM GRADUATE STUDENT
 RESEARCHERS PROGRAM
 06/15/1999 - 05/31/2002 FY01: \$9,200 Total: \$53,200
Prin. Invest.: A GALLIMORE
Tech. Officer: GRC/F J MONTEGANI
CASE Category: 49 - ENGINEERING, OTHER

NGT 3 52349 **UNIV OF MICHIGAN - ANN ARBOR** **6030**
 GRADUATE STUDENT RESEARCH PROGRAM GRADUATE STUDENT
 RESEARCH PROGRAM
 06/23/1999 - 08/31/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: A D GALLIMORE
Tech. Officer: GRC/F J MONTEGANI
CASE Category: 49 - ENGINEERING, OTHER

NGT 3 52365 **UNIV OF MICHIGAN - ANN ARBOR** **6031**
 GRADUATE STUDENT PROGRAM GRADUATE STUDENT PROGRAM
 06/14/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: A ATREYA
Tech. Officer: GRC/F J MONTEGANI
CASE Category: 43 - CHEMICAL ENGR

NGT 3 52372 **UNIV OF MICHIGAN - ANN ARBOR** **6032**
 GRADUATE STUDENT RESEARCHER'S PROGRAM GRADUATE STUDENT
 RESEARCHER'S PROGRAM
 04/09/2001 - 01/29/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: D PAVLIDIS
Tech. Officer: GRC/D MONTEGANI
CASE Category: 45 - ELECTRICAL ENGR

NGT 3 52377 **UNIV OF MICHIGAN - ANN ARBOR** **6033**
 GRADUATE STUDENT RESEARCH
 06/07/2001 - 06/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: W J DAHM
Tech. Officer: GRC/F J MONTEGANI
CASE Category: 49 - ENGINEERING, OTHER

NGT 4 52404 **UNIV OF MICHIGAN - ANN ARBOR** **6034**
 DESCRIPTION OF CONTRACT GRADUATE STUDENT RESEARCHERS
 PROGRAM
 06/10/1997 - 08/01/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: D BERNSTEIN
Tech. Officer: DFRC/K K GUPTA, DFRC/L S VOELKER
CASE Category: 41 - AERONAUTICAL ENGR

NGT 4 52421 **UNIV OF MICHIGAN - ANN ARBOR** **6035**
 MULTIVARIABLE NONLINEAR IDENTIFICATION MULTIVARIABLE NONLINEAR
 IDENTIFICATION
 05/11/2000 - 06/30/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: D S BERNSTEIN
Tech. Officer: DFRC/K K GUPTA
CASE Category: 41 - AERONAUTICAL ENGR

NGT 4 52426 **UNIV OF MICHIGAN - ANN ARBOR** **6036**
 GRADUATE RESEARCH - AEROELASTICITY AND AEROELASTIC SCALING
 OF HYPersonic VEHICLES
 07/17/2001 - 06/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: P FRIEDMAN
Tech. Officer: DFRC/K K GUPTA
CASE Category: 41 - AERONAUTICAL ENGR

NGT 5 75 **UNIV OF MICHIGAN - ANN ARBOR** **6037**
 A PARALLEL ADAPTIVE MESH REFINEMENT SCHEME FOR SUPERNOVA
 REMNANTS
 06/16/1998 - 06/30/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: K POWELL, NONE
Tech. Officer: GSFC/G SOFFEN
CASE Category: 41 - AERONAUTICAL ENGR

NGT 5 124 **UNIV OF MICHIGAN - ANN ARBOR** **6038**
 DEVELOPMENT AND TESTING OF THE FAST IMAGING PLASMA SPECTROMETER
 (STUDENT: PATRICK KOEHN)
 06/07/2001 - 08/31/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: L A FISK
Tech. Officer: GSFC/M S BURRELL
CASE Category: 31 - ATMOSPHERIC SCIENCE

NGT 5 30172 **UNIV OF MICHIGAN - ANN ARBOR** **6039**
 THE USE OF REMOTE SENSING METHODS FOR STUDYING FIRE-INDUCED
 LAND COVER CHANGES IN BOREAL FORESTS
 09/04/1998 - 05/31/2002 FY01: \$0 Total: \$66,000
Prin. Invest.: C OLSON, FRENCH
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30359 UNIV OF MICHIGAN - ANN ARBOR 6040
 COMPUTATIONAL METHODS FOR ADVANCED CLIMATE MODEL PREDICTIONS: A STUDY OF ADOPTIVE GRID TECHNIQUES
 08/23/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: J PENNER
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 40062 UNIV OF MICHIGAN - ANN ARBOR 6041
 TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE AND FELLOWSHIP PROGRAM.
 03/15/1997 - 01/31/2001 FY01: \$0 Total: \$1,805,000
Prin. Invest.: R M JOHNSON
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40118 UNIV OF MICHIGAN - ANN ARBOR 6042
 MICHIGAN SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
 03/15/2001 - 01/31/2002 FY01: \$475,000 Total: \$475,000
Prin. Invest.: A D GALLIMORE
Tech. Officer: GSFC/D D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50199 UNIV OF MICHIGAN - ANN ARBOR 6043
 MARKET-BASED DISTRIBUTED TASK ALLOCATION IN AUTONOMOUS SPACECRAFT
 06/24/1998 - 08/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: M WELLMAN
Tech. Officer: HQ/A NURRIDIN
CASE Category: 22 - COMPUTER SCIENCE

NGT 5 50255 UNIV OF MICHIGAN - ANN ARBOR 6044
 A HYBRID KINETIC FLUID MODEL FOR THE ATMOSPHERE OF PLUTO
 STUDENT: AYLISHA REINARD
 06/21/1999 - 06/30/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: L FISK
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50349 UNIV OF MICHIGAN - ANN ARBOR 6045
 DEVELOPMENT OF A NEW SOLID STATE DETECTOR FOR THE STUDY OF SOLAR WIND COMPOSITION/STUDENT: SUSAN LEP
 05/08/2001 - 06/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: L FISK
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 8 52864 UNIV OF MICHIGAN - ANN ARBOR 6046
 IDENTIFICATION OF LONG TERM CHANGE IN SOCIETY AND SETTLEMENT OF THE KHABUR DRAINAGE
 07/28/1998 - 08/13/2002 FY01: \$0 Total: \$64,000
Prin. Invest.: H T WRIGHT
Tech. Officer: MSFC/J F DOWDY
CASE Category: 79 - SOCIAL SCIENCE, OTHER

NGT 8 52888 UNIV OF MICHIGAN - ANN ARBOR 6047
 NUCLEAR THERMAL PROPULSION FOR SPACE EXPLORATION
 05/18/2000 - 08/31/2003 FY01: \$22,000 Total: \$44,000
Prin. Invest.: T KAMMASH
Tech. Officer: MSFC/S NASH-STEVENSON
CASE Category: 49 - ENGINEERING, OTHER

NGT 8 52889 UNIV OF MICHIGAN - ANN ARBOR 6048
 DEVELOPMENT OF FIELD EMITTER ARRAY OF ELECTRODYNAMIC TETHER
 05/04/2000 - 06/30/2003 FY01: \$22,000 Total: \$44,000
Prin. Invest.: B GILCHRIST
Tech. Officer: MSFC/S NASH-STEVENSON
CASE Category: 45 - ELECTRICAL ENGR

NGT 8 52900 UNIV OF MICHIGAN - ANN ARBOR 6049
 DEV OF COMPUTER MODELS FOR NUCLEAR-BASED MAGNETOHYDRODYNAMIC POWER CYCLES
 05/25/2001 - 07/01/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: I BOYD
Tech. Officer: MSFC/S NASH-STEVENSON
CASE Category: 41 - AERONAUTICAL ENGR

NAG 2 1279 WAYNE STATE UNIV 6050
 DEVELOPMENT OF STRATEGIES & TOOLS FOR ANALYSIS & CONTROL OF LARGE AIR TRAFFIC MANAGEMENT SYSTEMS
 01/05/1999 - 12/31/2001 FY01: \$30,000 Total: \$90,000
Prin. Invest.: F LIN
Tech. Officer: ARC/G MEYER
CASE Category: 49 - ENGINEERING, OTHER

NAG 2 1503 WAYNE STATE UNIV 6051
 EFFECTS OF MICROGRAVITY ON PREIMPLANTATION MOUSE DEVELOPMENT
 07/12/2001 - 07/14/2002 FY01: \$89,600 Total: \$89,600
Prin. Invest.: D A RAPPOLEE
Tech. Officer: ARC/M M AVERNER
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 3 2180 WAYNE STATE UNIV 6052
 CHARACTERIZATION OF MULTI-JUNCTION SOLAR CELLS CHARACTERIZATION OF MULTI-JUNCTION SOLAR CELLS
 07/18/1998 - 01/04/2002 FY01: \$75,000 Total: \$225,000
Prin. Invest.: P WOODYARD
Tech. Officer: GRC/D BRINKER
CASE Category: 45 - ELECTRICAL ENGR

NAG 3 2313 WAYNE STATE UNIV 6053
 A DESIGN AND ANALYSIS TOOL FOR PULSE DETONATION ENGINES
 12/29/1999 - 02/04/2003 FY01: \$177,384 Total: \$237,384
Prin. Invest.: S YU
Tech. Officer: GRC/P C JORGENSON
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2542 WAYNE STATE UNIV 6054
 DIRECT CALCULATIONS OF PLUME DYNAMICS AND ACOUSTICS OF A PULSE DETONATION ENGINE BY THE SPACE-TIME
 02/12/2001 - 02/04/2002 FY01: \$46,999 Total: \$46,999
Prin. Invest.: S YU
Tech. Officer: GRC/P C JORGENSON
CASE Category: 41 - AERONAUTICAL ENGR

NAG 9 1183 WAYNE STATE UNIV 6055
 DEVELOPMENT OF HUMAN FACTORS ANALYSIS OF ADVANCED 3D VISUALIZATION FOR TELEPRESENCE
 01/15/2000 - 01/14/2003 FY01: \$121,173 Total: \$248,723
Prin. Invest.: L ZAMORANO
Tech. Officer: JSC/B WOOLFORD
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 2 1189 **WAYNE STATE UNIV** **6056**
 FROM BIOLOGICA INFORMATION PROCESSING TO ADAPTABLE ROBOTRY:
 PRINCIPLES, MODELS & BIOMIMETIC DESIGN
 07/14/2000 – 07/14/2002 FY01: \$75,000 Total: \$150,000
Prin. Invest.: K PETER ZAUNER
Tech. Officer: ARC/S P COLOMBANO, ARC/M M AVERNER
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NCC 3 580 **WAYNE STATE UNIV** **6057**
 APPLICATION OF THE METHOD OF SPACE-TIME CONSERVATI ON ELEMENT
 AND SOLUTION ELEMENT TO THE CALCULATIO
 01/08/1998 – 11/05/2000 FY01: \$0 Total: \$257,819
Prin. Invest.: S T YU, M C LAI
Tech. Officer: GRC/P C JORGENSON
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 1979 **WESTERN MICHIGAN UNIV** **6058**
 NEW RESEARCH GRANT
 12/10/1997 – 11/30/2000 FY01: -\$179 Total: \$149,683
Prin. Invest.: W W LIOU
Tech. Officer: LARC/C L RUMSEY
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 1 01023 **WESTERN MICHIGAN UNIV** **6059**
 DSMC SIMULATIONS OF LAMINAR FLOW BREAKDOWN ON SPACE TRANS-
 PORT SYSTEMS
 04/02/2001 – 02/28/2004 FY01: \$50,000 Total: \$50,000
Prin. Invest.: W W LIOU
Tech. Officer: LARC/J N MOSS
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 3 2529 **WESTERN MICHIGAN UNIV** **6060**
 A UNIFIED LES/RANS APPROACH USING THE CE/SE METHOD
 01/22/2001 – 01/17/2002 FY01: \$61,000 Total: \$61,000
Prin. Invest.: W W LIOU
Tech. Officer: GRC/S CHANG
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 5 10448 **WESTERN MICHIGAN UNIV** **6061**
 IMPROVED SIMULATIONS OF ASTROPHYSICAL PLASMAS: COMPUTATION
 OF NEW ATOMIC DATA
 02/20/2001 – 02/28/2002 FY01: \$70,000 Total: \$70,000
Prin. Invest.: T GORCZYCA
Tech. Officer: GSFC/P CRANE
CASE Category: 13 – PHYSICS

NAG10 279 **WESTERN MICHIGAN UNIV** **6062**
 CLOSE CALL DATA SOURCES REVIEW AND ANALYSIS CLOSE CALL DATA
 SOURCES REVIEW AND ANALYSIS
 04/07/2000 – 09/29/2000 FY01: \$0 Total: \$88,872
Prin. Invest.: W J HOMAN
Tech. Officer: KSC/D S KEENAN
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NCC 2 1246 **WESTERN MICHIGAN UNIV** **6063**
 FRACTAL & GEOSTATISTICAL METADATA FOR MONITORING G LOBAL
 CHANGE USING REMOTE SENSING IMAGERY
 04/17/2001 – 05/31/2002 FY01: \$70,000 Total: \$70,000
Prin. Invest.: C W EMERSON
Tech. Officer: ARC/J L DUNGAN, ARC/J C COUGHLIN
CASE Category: 22 – COMPUTER SCIENCE

MINNESOTA

NAG 5 8626 **CONCORDIA COLLEGE IN MOORHEAD** **6064**
 MARS SOLAR BALLOON GAS CHROMATOGRAPH MASS SPECTROM ETER
 06/24/1999 – 06/30/2001 FY01: \$0 Total: \$5,000
Prin. Invest.: H L MANNING
Tech. Officer: GSFC/P R MAHAFFY
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 8142 **MANKATO STATE UNIV** **6065**
 AN ARTIFICIAL INTELLIGENCE CLASSIFICATION TOOL AND ITS APPLICA-
 TION TO GAMMA-RAY BURSTS
 02/03/1999 – 01/31/2001 FY01: -\$22,293 Total: \$124,886
Prin. Invest.: J HAKKILA
Tech. Officer: GSFC/P HUNTER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 7366 **MOORHEAD STATE UNIV** **6066**
 ELECTROCHEMICAL STUDY OF SILICATE MELT STRUCTURE A ND COMPO-
 NENTACTIVITIES
 05/15/1998 – 05/31/2002 FY01: \$0 Total: \$67,800
Prin. Invest.: R O COLSON
Tech. Officer: HQ/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 11287 **SAINT CLOUD STATE UNIV** **6067**
 SEARCH FOR CHEMICAL DIVERSITY IN COMETRAY VOLATILE S
 08/20/2001 – 08/31/2004 FY01: \$16,400 Total: \$16,400
Prin. Invest.: M WOMACK
Tech. Officer: GSFC/J HILLMAN
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 1 1938 **UNIV OF MINNESOTA** **6068**
 INVESTIGATION OF MESOSCALE VARIABILITY IN CONVECTIVE BOUNDARY
 LAYER DEVELOPMENT USING
 05/28/1997 – 05/31/2000 FY01: \$0 Total: \$79,516
Prin. Invest.: K J DAVIS
Tech. Officer: LARC/S ISMAIL, LARC/W T STEVENS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 2242 **UNIV OF MINNESOTA** **6069**
 STRUCTURING FORMAL RQMTS SPECIFICATIONS FOR REUSE AND
 PRODUCT FAMILIES -- NRA 98-LARC-8
 09/28/1999 – 06/30/2001 FY01: \$1 Total: \$62,055
Prin. Invest.: M E HEMDAHL
Tech. Officer: LARC/R W BUTLER
CASE Category: 22 – COMPUTER SCIENCE

NAG 1 01090 **UNIV OF MINNESOTA** **6070**
 FURTHER DEVELOPMENT & DEPLOYMENT OF NANOMETER AEROSOL SIZE
 ANALYZER (NASA) TO SUPPORT EXCAVATE
 06/15/2001 – 01/12/2002 FY01: \$50,000 Total: \$50,000
Prin. Invest.: D Y PUI, D R CHEN
Tech. Officer: LARC/W R COFER, LARC/B E ANDERSON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 2 1428 **UNIV OF MINNESOTA** **6071**
 REAL-TIME MOTION PATH PLANNING FOR AUTONOMOUS ROTO RCRAFT
 08/04/2000 – 08/31/2002 FY01: \$60,000 Total: \$145,373
Prin. Invest.: Y J ZHAO
Tech. Officer: ARC/M S WHALLEY
CASE Category: 41 – AERONAUTICAL ENGNR

NAG 2 1470 **UNIV OF MINNESOTA** **6072**
 COMPREHENSIVE COMPUTER SIMULATION OF AIR TRAFFIC SYSTEM
 04/09/2001 – 03/31/2002 FY01: \$59,297 Total: \$59,297
Prin. Invest.: Y J ZHAO
Tech. Officer: ARC/J E ROBINSON
CASE Category: 41 – AERONAUTICAL ENGR

NAG 2 1474 **UNIV OF MINNESOTA** **6073**
 ATOMIC FORCE MICROSCOPY OF THERMAL INSULATION MATERIALS WITH
 AEROGELS
 04/13/2001 – 03/31/2002 FY01: \$13,646 Total: \$13,646
Prin. Invest.: J MAPS
Tech. Officer: ARC/L J SALERNO, ARC/S M JOHNSON
CASE Category: 13 – PHYSICS

NAG 3 1975 **UNIV OF MINNESOTA** **6074**
 ROBUST NONLINEAR FEEDBACK CONTROL OF AIRCRAFT PROPELLSION
 SYSTEMS
 10/22/1996 – 10/31/2000 FY01: \$0 Total: \$226,384
Prin. Invest.: W L GARRARD, G T BALAS
Tech. Officer: GRC/S GARG
CASE Category: 41 – AERONAUTICAL ENGR

NAG 3 2187 **UNIV OF MINNESOTA** **6075**
 DEVELOPMENT OF A CALIBRATION SYSTEM FOR EVALUATING
 INSTRUMENTS FOR MEASURING AEROSOLS AND PARTICULATES
 08/06/1998 – 01/12/2001 FY01: \$0 Total: \$174,000
Prin. Invest.: D H PUI
Tech. Officer: GRC/T M SANDERS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 3 2275 **UNIV OF MINNESOTA** **6076**
 FEASIBILITY STUDY OF A MICROSCALE PARTICULATE CLASSIFIER (MIPAC)
 07/01/1999 – 10/20/1999 FY01: -\$2,516 Total: \$44,984
Prin. Invest.: D H PUI
Tech. Officer: GRC/P S GREENBERG
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 2435 **UNIV OF MINNESOTA** **6077**
 FEASIBILITY STUDY OF A MICROSCALE PARTICULATE CLASSIFIER (MIPAC)
 05/31/2000 – 09/30/2001 FY01: \$25,000 Total: \$75,000
Prin. Invest.: D H PUI
Tech. Officer: GRC/P S GREENBERG
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 2468 **UNIV OF MINNESOTA** **6078**
 DEVELOPMENT OF A LOW-COST, SOFTWARE RECONFIGURABLE LABORATORY
 FOR FIRST COURSE ON ELECTRIC DRIVES
 06/26/2000 – 08/31/2003 FY01: \$0 Total: \$10,000
Prin. Invest.: P MOHAN
Tech. Officer: GRC/B H KENNY
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 2600 **UNIV OF MINNESOTA** **6079**
 NEW POLYMER ELECTROLYTE SYSTEMS
 05/01/2001 – 05/31/2004 FY01: \$125,000 Total: \$125,000
Prin. Invest.: W H SMYRL
Tech. Officer: GRC/NH HAGEDORN
CASE Category: 12 – CHEMISTRY

NAG 4 205 **UNIV OF MINNESOTA** **6080**
 APPLICATION OF GAIN-SCHEDULED MULTIVARIABLE CONTROL TECHNIQUES
 TO THE F/A-18 SYSTEMS RESEARCH AIRCRAFT
 04/06/2000 – 03/30/2001 FY01: \$0 Total: \$45,000
Prin. Invest.: G J BAIAS
Tech. Officer: DFRC/M STEPHENSON
CASE Category: 41 – AERONAUTICAL ENGR

NAG 5 3735 **UNIV OF MINNESOTA** **6081**
 STUDY FOR AN AURORAL MULTI-PROBE SATELLITE MISSION
 03/03/1997 – 02/28/2002 FY01: \$0 Total: \$200,000
Prin. Invest.: D A CATTELL
Tech. Officer: GSFC/R HOWARD
CASE Category: 13 – PHYSICS

NAG 5 3998 **UNIV OF MINNESOTA** **6082**
 WEB EXPLORATION TOOLS FOR A FAST FEDERATED OPTICAL
 03/06/1997 – 02/28/2000 FY01: \$0 Total: \$225,911
Prin. Invest.: P M HUMPHREYS
Tech. Officer: GSFC/J BREDEKAMP
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 4466 **UNIV OF MINNESOTA** **6083**
 A THREE-DIMENSIONAL, TIME-DEPENDENT MODEL OF THE IONOSPHERE
 WITH THE IONOSPHERE
 05/21/1997 – 04/30/2000 FY01: -\$15,448 Total: \$208,215
Prin. Invest.: D L LYSAK
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 – PHYSICS

NAG 5 5113 **UNIV OF MINNESOTA** **6084**
 THE PROPAGATION OF ULTRASHORT RAY NUCLEI FUNDING FOR FIRST YEAR
 OF GRANT
 04/09/1997 – 03/31/2000 FY01: \$0 Total: \$37,280
Prin. Invest.: C J WADDINGTON
Tech. Officer: GSFC/H C NEDDLEMAN, GSFC/B A MERRITT
CASE Category: 12 – CHEMISTRY

NAG 5 5172 **UNIV OF MINNESOTA** **6085**
 A VERY HIGH TIME RESOLUTION ROCKET INVESTIGATION OF
 IONOSPHERIC PLASMA PHYSICS ASSOCIATED WITH ATMOSPHERE
 03/30/1998 – 03/31/2002 FY01: \$0 Total: \$557,127
Prin. Invest.: J R WYGANT
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 – PHYSICS

NAG 5 5182 **UNIV OF MINNESOTA** **6086**
 TIME DEPENDENT SIMULATION OF NONLINEAR COSMIC-RAY ACCELERATION
 IN SHOCKS: A POWERFUL NEW APPROACH
 03/26/1998 – 08/31/2001 FY01: \$0 Total: \$132,290
Prin. Invest.: T W JONES
Tech. Officer: GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 5 5214 **UNIV OF MINNESOTA** **6087**
 PHASE A GRANT STUDY FOR IMEX PROJECT PI – PROF J WYGANT
 10/08/1998 – 10/31/2003 FY01: \$147,585 Total: \$557,085
Prin. Invest.: J WYGANT
Tech. Officer: GSFC/D PIERCE
CASE Category: 13 – PHYSICS

NAG 5 6191 **UNIV OF MINNESOTA** **6088**
 TITLE: MORPHOLOGICAL ANALYSIS OF BRAIDED RIVERS U
 08/13/1997 - 05/31/2001 FY01: \$0 Total: \$84,254
Prin. Invest.: E FOUFOULA-GEORGI
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6797 **UNIV OF MINNESOTA** **6089**
 RHEOLOGY OF DIABASE: IMPLICATIONS FOR TECTONICS ON VENUS AND
 MARS
 02/19/1998 - 03/31/2001 FY01: \$0 Total: \$263,596
Prin. Invest.: D L KOHLSTEDT
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 7094 **UNIV OF MINNESOTA** **6090**
 RARE GAS AND NITROGEN STUDIES ON LUNAR, METEORITIC, AND SELEC-
 TED TERRESTRIAL MATERIALS
 05/20/1998 - 03/14/2002 FY01: \$180,000 Total: \$652,000
Prin. Invest.: R O PEPIN
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 7202 **UNIV OF MINNESOTA** **6091**
 CONTINUING DATA ANALYSIS OF THE WAVES EXPERIMENT ON THE WIND
 SPACECRAFT
 04/22/1998 - 02/28/2001 FY01: \$0 Total: \$738,516
Prin. Invest.: P KELLOG
Tech. Officer: GSFC/K OGILVIE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 7462 **UNIV OF MINNESOTA** **6092**
 SOLAR WIND COUPLING TO THE MAGNETOSPHERE: ANALYSIS OF MULTI-
 SPACECRAFT OBSERVATIONS IN SOLAR WIND
 11/12/1998 - 12/31/2001 FY01: \$88,101 Total: \$260,721
Prin. Invest.: N LIN
Tech. Officer: GSFC/M H ACUNA
CASE Category: 11 - ASTRONOMY

NAG 5 7599 **UNIV OF MINNESOTA** **6093**
 REGIONAL HYDROLOGIC SIMULATION MODEL TO STUDY AQUIFER-
 ATMOSPHERE INTER-ACTIONS ON INTERANNUAL-DECA
 07/21/1998 - 06/30/2002 FY01: \$0 Total: \$250,000
Prin. Invest.: M PERSON
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 7715 **UNIV OF MINNESOTA** **6094**
 SPATIO-TEMPORAL ORGANIZATION AND SPACE-TIME DOWNSCALING OF
 TROPICAL RAINFALL
 10/27/1998 - 10/31/2001 FY01: \$73,386 Total: \$227,819
Prin. Invest.: E FOUFOULA-GEORGI
Tech. Officer: GSFC/O W THIELE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7885 **UNIV OF MINNESOTA** **6095**
 SUPPORT ANALYSIS OF DATA FROM THE UCLA MAGNETOMETER ON
 NASAPOLAR SPACECRAFT DURING THE
 12/01/1998 - 12/31/2000 FY01: \$0 Total: \$65,000
Prin. Invest.: C CATTELL
Tech. Officer: GSFC/R HOFFMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 7906 **UNIV OF MINNESOTA** **6096**
 INFRARED IMAGING PHOTOMETRY AND POLARIMETRY OF COMETS
 12/10/1998 - 09/30/2002 FY01: \$0 Total: \$220,944
Prin. Invest.: D J JONES
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 - ASTRONOMY

NAG 5 7917 **UNIV OF MINNESOTA** **6097**
 BIG FOOT--CHARACTERIZING LAND COVER, LAI AND NPP AT THE LAND-
 SCALE SCALE FOR EOS/MODIS VALIDATION
 12/09/1998 - 12/31/2001 FY01: \$77,629 Total: \$229,481
Prin. Invest.: P B REICH
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8073 **UNIV OF MINNESOTA** **6098**
 GEOTAIL OBSERVATIONS OF EXB FLOWS AND ASSOCIATED LOW
 FREQUENCY WAVES IN THE MAGNETOTAIL AND THEIR D
 01/21/1999 - 01/31/2001 FY01: \$0 Total: \$84,000
Prin. Invest.: C A CATTELL
Tech. Officer: GSFC/M H ACUNA
CASE Category: 13 - PHYSICS

NAG 5 8082 **UNIV OF MINNESOTA** **6099**
 THEORETICAL STUDY OF ULF WAVES IN THE MAGNETOTAIL
 01/22/1999 - 04/30/2002 FY01: \$101,768 Total: \$285,981
Prin. Invest.: D L LYSAK
Tech. Officer: GSFC/J SHARBER
CASE Category: 11 - ASTRONOMY

NAG 5 8205 **UNIV OF MINNESOTA** **6100**
 STUDY OF SUBSTORM ASSOCIATED ULF AND VLF WAVES IN THE MAGNE-
 TOTAIL USING SPACECRAFT DATA
 02/08/1999 - 02/14/2002 FY01: \$59,000 Total: \$167,693
Prin. Invest.: D LIN
Tech. Officer: GSFC/D EVANS
CASE Category: 11 - ASTRONOMY

NAG 5 8869 **UNIV OF MINNESOTA** **6101**
 LABORATORY STUDIES OF THE KINETICS OF ATMOSPHERIC REACTIONS
 OF HALOGENATED ALKOXY RADICALS
 01/10/2000 - 12/31/2001 FY01: \$115,117 Total: \$224,975
Prin. Invest.: R W CARR
Tech. Officer: GSFC/M KURYLO
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9146 **UNIV OF MINNESOTA** **6102**
 PHASE-A AND BRIDGE PHASE STUDY OF STEREO/WAVES ACCOMMODA-
 TION
 03/09/2000 - 12/31/2001 FY01: \$450,996 Total: \$582,150
Prin. Invest.: K GOETZ
Tech. Officer: GSFC/M KAISER
CASE Category: 11 - ASTRONOMY

NAG 5 9221 **UNIV OF MINNESOTA** **6103**
 QUASARS AS PROBES (L TSA 99)
 03/14/2000 – 05/31/2002 FY01: \$113,502 Total: \$216,561
Prin. Invest.: E SKILLMAN
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 9254 **UNIV OF MINNESOTA** **6104**
 THEORETICAL STUDIES OF ALFVEN WAVE INTERACTION WITH THE
 IONOSPHERE
 03/13/2000 – 04/30/2002 FY01: \$79,632 Total: \$152,132
Prin. Invest.: R LYSAK
Tech. Officer: GSFC/M MELLOTT
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 9312 **UNIV OF MINNESOTA** **6105**
 MAPPING & MODELING FOREST CHANGE IN A BOREAL LAND SCAPE
 03/20/2000 – 04/30/2002 FY01: \$120,154 Total: \$199,934
Prin. Invest.: J PASTOR
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 9349 **UNIV OF MINNESOTA** **6106**
 BALLOON BORNE OBSERVATIONS OF THE POLARIZATION ANI SOTROPY
 OF THE COSMIC MICROWAVE BACKGROUND RADIAT
 03/28/2000 – 03/31/2003 FY01: \$155,000 Total: \$284,000
Prin. Invest.: S HANANY
Tech. Officer: GSFC/G STRINGFELLOW
CASE Category: 11 – ASTRONOMY

NAG 5 9407 **UNIV OF MINNESOTA** **6107**
 ENHANCING & ARCHIVING THE APS CATALOG OF THE POSS I
 04/10/2000 – 04/30/2002 FY01: \$115,900 Total: \$233,400
Prin. Invest.: R HUMPHREYS
Tech. Officer: GSFC/P HUNTER
CASE Category: 11 – ASTRONOMY

NAG 5 10178 **UNIV OF MINNESOTA** **6108**
 CONTINUED ANALYSIS OF ISTEP WIND/WAVES DATA
 01/18/2001 – 02/28/2002 FY01: \$151,619 Total: \$151,619
Prin. Invest.: K GOETZ
Tech. Officer: GSFC/M L KAISER
CASE Category: 11 – ASTRONOMY

NAG 5 10274 **UNIV OF MINNESOTA** **6109**
 DATA ANALYSIS OF THE UNIV. MINNESOTA PORTION OF THE URAP EXPERI-
 MENT ON THE ULYSSES SPACECRAFT
 01/16/2001 – 12/31/2001 FY01: \$90,024 Total: \$90,024
Prin. Invest.: P J KELLOGG
Tech. Officer: GSFC/R J MACDOWALL
CASE Category: 13 – PHYSICS

NAG 5 10509 **UNIV OF MINNESOTA** **6110**
 RHEOLOGY OF PLANETARY MATERIALS: IMPLICATIONS FOR TECTONICS
 OF TERRESTRIAL PLANETS
 03/01/2001 – 03/31/2002 FY01: \$84,900 Total: \$84,900
Prin. Invest.: D L KOHLSTEDT
Tech. Officer: GSFC/D SENKE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 10569 **UNIV OF MINNESOTA** **6111**
 SPATIAL VARIABILITY IN LAND-ATMOSPHERE INTERACTION COUPLING A
 NEW GENERATION LARGE-EDDY SIMULATION
 03/12/2001 – 03/14/2002 FY01: \$94,385 Total: \$94,385
Prin. Invest.: F PORTE-AGEL
Tech. Officer: GSFC/M WEI
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10774 **UNIV OF MINNESOTA** **6112**
 SELF-CONSISTENT EVOLUTION OF COSMIC-RAY SHOCKS (ATP 2000)
 04/24/2001 – 04/30/2002 FY01: \$61,343 Total: \$61,343
Prin. Invest.: T W JONES
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 11124 **UNIV OF MINNESOTA** **6113**
 DETERMINING THE IMPORTANCE OF ENERGY TRANSFER BETWEEN
 MAGNETOSPHERIC REGIONS VIA MHD WAVES USING
 07/19/2001 – 07/14/2002 FY01: \$185,000 Total: \$185,000
Prin. Invest.: C A CATTELL
Tech. Officer: GSFC/J SPANN
CASE Category: 11 – ASTRONOMY

NAG 5 11130 **UNIV OF MINNESOTA** **6114**
 LAND USE, CARBON AND WATER IN THE UPLANDS OF SOUTH EASTER
 NORTH AMERICA
 08/02/2001 – 07/14/2002 FY01: \$79,866 Total: \$79,866
Prin. Invest.: P BOLSTAD
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 11262 **UNIV OF MINNESOTA** **6115**
 DEVELOPMENT OF ENVIRONMENTAL INDICATORS FOR THE US GREAT
 LAKES USING REMOTE SENSING TECHNOLOGY
 08/27/2001 – 08/31/2005 FY01: \$75,000 Total: \$75,000
Prin. Invest.: G NIEMI
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 8 1258 **UNIV OF MINNESOTA** **6116**
 ATOMISTIC SIMULATIONS OF CADMIUM TELLURIDE
 04/15/1996 – 04/14/2002 FY01: \$0 Total: \$352,000
Prin. Invest.: J DERBY
Tech. Officer: MSFC/P DOTY, MSFC/D NOEVER
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1349 **UNIV OF MINNESOTA** **6117**
 SELF-ASSEMBLY OF HEPATOCYTE SPHEROIDS IN MICRO- GRAVITY
 06/19/1997 – 11/30/2001 FY01: \$0 Total: \$497,933
Prin. Invest.: W S HU, L HANSEN, R KEMMEL
Tech. Officer: MSFC/B GUYNES, MSFC/J MAYO
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 8 1474 **UNIV OF MINNESOTA** **6118**
 THEORETICAL ANALYSIS OF 3D TRANSIENT CONVECTION AND SEGREGA-
 TION
 02/06/1998 – 01/31/2002 FY01: \$128,250 Total: \$487,750
Prin. Invest.: J J DERBY, A J YECKEL
Tech. Officer: MSFC/C TALLEY
CASE Category: 13 – PHYSICS

NAG 8 1519 **UNIV OF MINNESOTA** **6119**
 SUBGRID SCALE PRECIPITATION VARIABILITY OVER THE MISSISSIPPI
 RIVER BASIN
 05/01/1998 - 04/30/2002 FY01: \$0 Total: \$317,495
Prin. Invest.: E FOUFOULA-GEORGIU
Tech. Officer: MSFC/J ARNOLD
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 8 1676 **UNIV OF MINNESOTA** **6120**
 FIRST PRINCIPLES CALCULATIONS OF MOLTEN II-IV COMPOUNDS AND
 THEIR SOLIDIFICATION BEHAVIOR
 05/01/2000 - 11/30/2003 FY01: \$104,500 Total: \$149,500
Prin. Invest.: J J DERBY, J R CHELIKOWSKY
Tech. Officer: MSFC/P M DOTY
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 9 1007 **UNIV OF MINNESOTA** **6121**
 GENESIS DISCOVERY MISSION
 05/06/1998 - 03/31/2002 FY01: \$83,697 Total: \$309,322
Prin. Invest.: R O PEPIN
Tech. Officer: JSC/E K STANSBERY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 9 1218 **UNIV OF MINNESOTA** **6122**
 LIQUID COOLING GARMENT FOR SPACE SUIT
 03/03/2000 - 03/07/2002 FY01: \$184,134 Total: \$373,786
Prin. Invest.: V KOSCHEYER
Tech. Officer: JSC/R TREVINO
CASE Category: 42 - AERONAUTICAL ENGR

NAG 9 1222 **UNIV OF MINNESOTA** **6123**
 WORST CASE ANALYSIS OF THE X38 V201 FLIGHT CONTROL SYSTEM
 03/24/2000 - 03/24/2001 FY01: \$0 Total: \$40,918
Prin. Invest.: G J BALAS
Tech. Officer: JSC/S R MUNDY/M M HAMMERSCHMIDT
CASE Category: 41 - AERONAUTICAL ENGR

NAG13 99002 **UNIV OF MINNESOTA** **6124**
 THE UPPER MIDWEST REGIONAL EARTH SCIENCE APPLICATION CENTER
 02/03/1999 - 02/02/2002 FY01: \$0 Total: \$1,500,000
Prin. Invest.: M E BAUER
Tech. Officer: SSC/C HILL
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG13 99022 **UNIV OF MINNESOTA** **6125**
 INTEGRATING SATELLITE REMOTE SENSING INTO FOREST INVENTORY
 AND MANAGEMENT
 08/13/1999 - 11/01/2001 FY01: \$183,892 Total: \$288,917
Prin. Invest.: M BAUER
Tech. Officer: SSC/R MCKELLIP
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAS 5 32994 **UNIV OF MINNESOTA** **6126**
 SCIENTIFIC AND TECHNICAL SUPPORT FOR THE UNIFIED RADIO AND
 PLASMA WAVE INVESTIGATION
 02/08/1996 - 12/31/2000 FY01: \$0 Total: \$571,329
Prin. Invest.: K GOETZ, P J KELLOGG
Tech. Officer: GSFC/R J MACDOWELL
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NCC 1 311 **UNIV OF MINNESOTA** **6127**
 IMPLEMENTATION OF IMPROVED NANOMETER AEROSOL SIZE ANALYZER
 (NANO-ASA) FOR NEAR-FIELD FLT EXPERIMENTS
 07/23/1998 - 01/12/2001 FY01: \$0 Total: \$95,150
Prin. Invest.: D PUI, B E ANDERSON, D B KITTELSON
Tech. Officer: LARC/W L GROSE, LARC/R S ECKMAN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 1 337 **UNIV OF MINNESOTA** **6128**
 APPLICATION OF LINEAR PARAMETER-VARYING TECHNIQUES TO SAFETY-
 CRITICAL AIRCRAFT FLIGHT SYSTEMS
 07/20/1999 - 07/14/2002 FY01: \$202,522 Total: \$502,114
Prin. Invest.: G J BALAS
Tech. Officer: LARC/C M BELCASTRO, LARC/N M BELCASTRO
CASE Category: 41 - AERONAUTICAL ENGR

NCC 2 809 **UNIV OF MINNESOTA** **6129**
 OPTIMAL TAKEOFF PROCEDURES FOR A CATEGORY A HELICOPTERS
 07/08/1993 - 02/28/2001 FY01: \$0 Total: \$361,468
Prin. Invest.: Y ZHAO
Tech. Officer: ARC/R T CHEN
CASE Category: 41 - AERONAUTICAL ENGR

NCC 2 990 **UNIV OF MINNESOTA** **6130**
 AIRCRAFT SCHEDULING & CONFLICT RESOLUTION IN ATM
 04/29/1997 - 02/28/2001 FY01: \$26,898 Total: \$311,215
Prin. Invest.: Y ZHAO
Tech. Officer: ARC/T J DAVIS, ARC/J E ROBINSON, III
CASE Category: 41 - AERONAUTICAL ENGR

NCC 2 1231 **UNIV OF MINNESOTA** **6131**
 DISCOVERY OF CHANGES FROM THE GLOBAL CARBON CYCLE & CLIMATE
 SYSTEM USING DATA MINING
 03/28/2001 - 02/28/2002 FY01: \$94,000 Total: \$94,000
Prin. Invest.: V KUMAR
Tech. Officer: ARC/C S POTTER, ARC/J COUGHLAN
CASE Category: 22 - COMPUTER SCIENCE

NCC 2 1240 **UNIV OF MINNESOTA** **6132**
 INTELLIGENT SPECIFICATION-CENTERED TEST-CASE GENERATION
 REVIEW IDENTIFIER
 04/04/2001 - 02/28/2002 FY01: \$108,000 Total: \$108,000
Prin. Invest.: M HEIMDAHL
Tech. Officer: ARC/R MORRIS
CASE Category: 22 - COMPUTER SCIENCE

NCC 2 5340 **UNIV OF MINNESOTA** **6133**
 LIFE IN EXTREME ENVIRONMENTS RESEARCH
 08/04/1999 - 07/31/2000 FY01: \$0 Total: \$30,000
Prin. Invest.: W E SEYFRIED
Tech. Officer: ARC/M T FLYNN, ARC/J HINES
CASE Category: 33 - OCEANOGRAPHY

NCC 2 5393 **UNIV OF MINNESOTA** **6134**
 ADVANCED MODELS FOR HIGH ENTHALPY FLOW SIMULATIONS
 08/14/2000 - 09/14/2001 FY01: \$57,822 Total: \$113,572
Prin. Invest.: G V CANDLER
Tech. Officer: ARC/J OLEJNICZAK
CASE Category: 41 - AERONAUTICAL ENGR

NCC 3 652 **UNIV OF MINNESOTA** **6135**
 MEASUREMENTS IN A TRANSITIONAL BOUNDARY LAYER UNDER LOW-PRESSURE TURBINE AIRFOIL CONDITIONS
 11/10/1998 - 11/01/2002 FY01: \$91,359 Total: \$182,306
Prin. Invest.: T W SIMON
Tech. Officer: GRC/D E ASHPIS
CASE Category: 46 - MECHANICAL ENGR

NCC 3 754 **UNIV OF MINNESOTA** **6136**
 DEVELOPMENT OF THE SPACE-TIME CE/SE METHOD FOR LARGE EDDY SIMULATIONS OF SUPERSONIC JET NOISE
 12/29/1999 - 12/15/2000 FY01: \$0 Total: \$50,000
Prin. Invest.: G V CANDLER
Tech. Officer: GRC/P JORGENSON
CASE Category: 41 - AERONAUTICAL ENGR

NCC 3 811 **UNIV OF MINNESOTA** **6137**
 ULTRA-COMPACT, SOFT-SWITCHING POWER SUPPLIES WITH HIGH EFFICIENCY FOR ELECTRIC PROPULSION
 07/13/2000 - 06/14/2002 FY01: \$0 Total: \$128,342
Prin. Invest.: N MOHAN
Tech. Officer: GRC/R M BUTTON
CASE Category: 45 - ELECTRICAL ENGR

NCC 3 857 **UNIV OF MINNESOTA** **6138**
 ULTRA COMPACT SOFT SWITCHING POWER SUPPLIES WITH HIGH EFFICIENCY FOR ELECTRIC PROPULSION
 01/26/2001 - 01/14/2003 FY01: \$138,000 Total: \$138,000
Prin. Invest.: N MOHAN
Tech. Officer: GRC/T T PETERSON
CASE Category: 45 - ELECTRICAL ENGR

NCC 5 316 **UNIV OF MINNESOTA** **6139**
 INSTALIZING MTPE DATA FOR LAND & ENVIRONMENTAL MANAGEMENT
 04/11/1998 - 02/28/2003 FY01: \$199,000 Total: \$727,000
Prin. Invest.: T BURK
Tech. Officer: GSFC/A TUYAHOV
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 102 **UNIV OF MINNESOTA** **6140**
 SPECTROSCOPIC VARIABILITY IN ETA CARINAE (STUDENT: NATHAN SMITH)
 05/25/2000 - 06/30/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: K DAVIDSON
Tech. Officer: GSFC/G A SOFFEN
CASE Category: 11 - ASTRONOMY

NGT 5 30080 **UNIV OF MINNESOTA** **6141**
 THE HYDROLOGIC CYCLE OF THE LOWER KANSAS RIVER BASIN OF LAND-ATMOSPHERE FEEDBACKS AND POTENTIAL EFFECT
 09/11/1997 - 08/31/2000 FY01: -\$2,720 Total: \$19,280
Prin. Invest.: M PERSON
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30109 **UNIV OF MINNESOTA** **6142**
 FAST-GEOTAIL CORRELATIVE STUDIES OF MAGNETOSPHERE-IONOSPHERE COUPLING
 05/11/1998 - 07/31/2001 FY01: -\$7,090 Total: \$36,910
Prin. Invest.: C CATTELL/SIGSBEE
Tech. Officer: GSFC/D EVANS
CASE Category: 11 - ASTRONOMY

NGT 5 30111 **UNIV OF MINNESOTA** **6143**
 THE IMPACTS OF A SALT CEDAR (TAMARIX RAMOSISSIMA) INVASION ON COMMUNITIES, ECOSYSTEM PROCESSES
 08/28/1998 - 08/31/2002 FY01: \$0 Total: \$66,000
Prin. Invest.: S HOBBIE
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30115 **UNIV OF MINNESOTA** **6144**
 ECOSYSTEM RESPONSE TO CLIMATIC CHANGE: A COMPARATIVE STUDY OF FOREST-LAKE ECOSYSTEMS ON DIFFERENT SITES
 10/01/1997 - 02/28/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: M DAVIS
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40040 **UNIV OF MINNESOTA** **6145**
 NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
 01/24/1997 - 02/28/2001 FY01: -\$244,731 Total: \$1,172,919
Prin. Invest.: W L GARRARD
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40086 **UNIV OF MINNESOTA** **6146**
 MINNESOTA SPACE GRANT COLLEGE & FELLOWSHIP PROGRAM
 02/16/2001 - 02/28/2002 FY01: \$726,131 Total: \$726,131
Prin. Invest.: W L GARRARD
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50091 **UNIV OF MINNESOTA** **6147**
 STUDY OF LONG RANGE QUANTUM COHERENCE IN THE BOSE-LIQUID HELIUM FOUR.
 09/05/1997 - 06/30/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: HALLEY
Tech. Officer: HQ/A NURRIDIN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50104 **UNIV OF MINNESOTA** **6148**
 SPATIO-TEMPORAL ORGANIZATION OF REMOTELY SENSED RADAR DYNAMIC SCALING AND DEVELOPMENT OF FRAMEWORK FOR
 09/06/1997 - 08/31/2000 FY01: -\$79 Total: \$43,921
Prin. Invest.: G POURFOULA
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50123 **UNIV OF MINNESOTA** **6149**
 THE DYNAMICAL EVOLUTION OF YOUNG SUPERNOVA REMNANT
 09/10/1997 - 09/14/2000 FY01: -\$3,485 Total: \$62,515
Prin. Invest.: L RUDNICK
Tech. Officer: HQ/A NURRIDIN
CASE Category: 29 - MATH/COMPUTER SCI, OTHER

NGT 5 50186 **UNIV OF MINNESOTA** **6150**
 THREE DIMENSIONAL SIMULATION OF KELVIN-HELMHOLTZ INSTABILITY WITH MAGNETIC SHEAR
 05/27/1998 - 06/30/2000 FY01: \$0 Total: \$38,500
Prin. Invest.: R L LYSAK
Tech. Officer: HQ/A NURRIDIN
CASE Category: 13 - PHYSICS

NGT 5 50250 **UNIV OF MINNESOTA** **6151**
SOUTHERN GALACTIC PLANE SURVEY AT 21 CM STUDENT: NAOMI M. MCCLURE-G
06/08/1999 - 09/30/2001 FY01: \$0 Total: \$44,000
Prin. Invest.: J DICKEY
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50251 **UNIV OF MINNESOTA** **6152**
STUDY OF SOLITARY WAVES & DOUBLE LAYERS IN HIGH ALTITUDE CUSP AND PLASMA SHEET BOUNDARY REGION
06/08/1999 - 06/30/2000 FY01: \$0 Total: \$22,000
Prin. Invest.: C CATTELL
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50293 **UNIV OF MINNESOTA** **6153**
A PARTICLE SIMULATION STUDY OF SOLITARY WAVES IN THE MAGNETOSPHERE/STUDENT: JAMES CRUMLEY
06/26/2000 - 06/30/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: R LYSAK
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50312 **UNIV OF MINNESOTA** **6154**
THE ELECTRODYNAMICS OF THE INNER MAGNETOSPHERE DURING MAJOR GEOMAGNETIC STORMS/STUDENT: DOUGLAS ROW
08/07/2000 - 07/31/2001 FY01: \$0 Total: \$22,000
Prin. Invest.: J WYGANT
Tech. Officer: GSFC/J SHARBER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50344 **UNIV OF MINNESOTA** **6155**
MAXIPOL: MEASURING THE POLARIZATION ANISOTROPY OF THE COSMIC MICROWAVE BACKGROUND/STUDENT: BRADLEY
05/14/2001 - 06/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: S HANAY
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50346 **UNIV OF MINNESOTA** **6156**
A MULTI-WAVELENGTH STUDY OF THE INTERSTELLAR MEDIUM OF LOW-METALLICITY/STUDENT: JOHN CANNON
05/07/2001 - 08/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: E SKILLMAN
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NSG 5088 **UNIV OF MINNESOTA** **6157**
RESEARCH OF MAGNETOSPHERIC PHYSICS PHENOMENA USING SOUND ROCKETS
11/01/1975 - 06/30/2001 FY01: \$0 Total: \$2,615,463
Prin. Invest.: J R WINCKLER
Tech. Officer: GSFC/L J EARLY, GSFC/R H PLESS
CASE Category: 13 - PHYSICS

NAG 1 01054 **WINONA STATE UNIV** **6158**
ACCELERATED TESTING OF POLYMERIC COMPOSITES: CORRELATION OF SCALE-UP EFFECTS ON VISCOELASTIC
03/30/2001 - 04/30/2003 FY01: \$60,864 Total: \$60,864
Prin. Invest.: B ABDEL-MAGID
Tech. Officer: LARC/T S GATES
CASE Category: 47 - METAL & MATERIALS ENGR

MISSISSIPPI

NAG 9 1135 **ALCORN STATE UNIV** **6159**
INTEGRATED POWER SYS RELIABILITY CURRICULUM ENHANCEMENT AND LAB DEVELOP PROGRAM
08/17/1999 - 08/16/2000 FY01: -\$1,459 Total: \$98,541
Prin. Invest.: N W MOSES
Tech. Officer: JSC/W C ROEH, JSC/L M ARMENDARIZ
CASE Category: 45 - ELECTRICAL ENGR

NAG13 98005 **ALCORN STATE UNIV** **6160**
THERMAL-HYDRAULIC MATERIAL PRE-CONSTRUCTION ANALYSIS OF THE NEW SSME TEST DIFFUSER
03/31/1998 - 09/30/2001 FY01: \$0 Total: \$264,392
Prin. Invest.: S ACEIL
Tech. Officer: JSC/B ST. CYR
CASE Category: 49 - ENGINEERING, OTHER

NAG13 98010 **ALCORN STATE UNIV** **6161**
STRENGTHENING PRE-SERVICE AND IN-SERVICE TEACHER EDUCATION IN MATHEMATICS, SCIENCE & TECHNOLOGY
06/12/1998 - 06/10/2001 FY01: \$0 Total: \$575,280
Prin. Invest.: D ADDIE, J RUSSELL, W HUMPHRY
Tech. Officer: JSC/N SULLIVAN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 2 1485 **JACKSON STATE UNIV** **6162**
NETWORK VISUALIZATION IN THREE-DIMENSIONS (NETVIZ)
05/22/2001 - 05/14/2002 FY01: \$35,000 Total: \$35,000
Prin. Invest.: Q MALLUHI
Tech. Officer: ARC/B A BIEGEL
CASE Category: 22 - COMPUTER SCIENCE

NAG 3 2277 **JACKSON STATE UNIV** **6163**
INTELLIGENT INTERFACE TO THE NUMERICAL SIMULATORS (IINS) OF THE AEROSPACE TRANSPORTATION ENGINES.
07/22/1999 - 07/31/2002 FY01: \$35,815 Total: \$105,847
Prin. Invest.: D MITRA
Tech. Officer: GRC/D F NOGA
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 6209 **JACKSON STATE UNIV** **6164**
BOUNDARY LAYER PROCESSES AFFECTING TROPICAL CYCLONES
08/06/1997 - 07/31/2001 FY01: \$0 Total: \$300,000
Prin. Invest.: P FITZPATRICK
Tech. Officer: GSFC/R ADLER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG13 98007 **JACKSON STATE UNIV** **6165**
PACE/MSET SAME
06/10/1998 - 08/30/2001 FY01: \$0 Total: \$299,910
Prin. Invest.: A K MOHAMED
Tech. Officer: SSC/A JOYCE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG13 99004 **JACKSON STATE UNIV** **6166**
MASTAP PROJECT: A MODEL FOR IMPROVING THE PRE-SERVICE TRAINING OF MIDDLE SCHOOL MATH TEACHERS
02/23/1999 - 02/22/2002 FY01: \$199,600 Total: \$598,800
Prin. Invest.: H GORE
Tech. Officer: SSC/A JOYCE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG13 99012 JACKSON STATE UNIV 6167
 STUDIES OF OCEAN-ATMOSPHERIC INTERACTIONS AND ASSOCIATED
 TROPICAL CYCLONES/HURRICANES OF GULF ME
 03/17/1999 - 03/16/2002 FY01: \$100,000 Total: \$300,000
Prin. Invest.: R REDDY
Tech. Officer: JSC/R MILLER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG13 99013 JACKSON STATE UNIV 6168
 SATELLITE ANALYSIS OF GULF COAST ATMOSPHERE MOSITURE AND
 TROPOSPHERIC AEROSOLS
 03/24/1999 - 03/23/2002 FY01: \$99,992 Total: \$299,988
Prin. Invest.: P CROFT
Tech. Officer: JSC/J JENNER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 2 5398 JACKSON STATE UNIV 6169
 COMPUTATIONAL STUDY ON EVOLUTION OF LIFE: INVESTI GATION OF
 NON-CLASICAL BASE 5-AZACYTOSINE & ITS D
 09/21/2000 - 09/30/2001 FY01: \$0 Total: \$14,000
Prin. Invest.: J LESZCZYNSKI
Tech. Officer: ARC/A POHORILLE, ARC/M FONDA
CASE Category: 12 - CHEMISTRY

NAG 1 1990 MISSISSIPPI STATE UNIV 6170
 GRID GENERATION AND NUMERICAL SOLUTION OF THE NAVIER-STOKES
 EQUATIONS OF UNSTRUCTUREDGRIDS
 01/12/1998 - 01/11/2000 FY01: -\$89 Total: \$249,912
Prin. Invest.: D L WITFIELD, D L MARCUM
Tech. Officer: LARC/J L THOMAS
CASE Category: 41 - AERONAUTICAL ENGR

NAG 1 2038 MISSISSIPPI STATE UNIV 6171
 INVESTIGATION OF ROBUST DESIGN CONCEPTS FOR COMPO- SITE
 ROTORCRAFT FUSELAGE STRUCTURES
 03/26/1998 - 05/31/2001 FY01: \$0 Total: \$135,283
Prin. Invest.: M RAIS-BHANI
Tech. Officer: LARC/D J BAKER, LARC/D R AMBUR
CASE Category: 41 - AERONAUTICAL ENGR

NAG 1 2295 MISSISSIPPI STATE UNIV 6172
 SITUATION AWARENESS & LEVEL OF AUTOMATION: EMPIRICAL
 ASSESSMENT OF LEELS OF AUTOMATION IN THE
 05/11/2000 - 05/10/2001 FY01: -\$5,999 Total: \$54,001
Prin. Invest.: D B KABER
Tech. Officer: LARC/M R ENDSLEY
CASE Category: 69 - PSYCHOLOGY, OTHER

NAG 2 1232 MISSISSIPPI STATE UNIV 6173
 PHYSICS-BASED MANEUVERING PREDICTION OF TILT ROTOR AIRCRAFT
 06/24/1998 - 07/31/2001 FY01: \$216,338 Total: \$870,726
Prin. Invest.: D L WHITFIELD, L K TAYLOR, W R BRILEY
Tech. Officer: ARC/R C STRAWN, ARC/W F FEIREISEN
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 1699 MISSISSIPPI STATE UNIV 6174
 COMPUTATIONAL FLUID DYNAMICS OF ROTATING MACHINERY USING
 TRUBO
 01/23/1995 - 03/30/2001 FY01: \$50,000 Total: \$629,999
Prin. Invest.: J M JANUS, D WHITFIELD, T M SWAFFORD
Tech. Officer: GRC/D L HUFF
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 1712 MISSISSIPPI STATE UNIV 6175
 COMPUTATIONS OF ROTOR-STATOR INTERACTIONS USING TH E
 NAVIEER-STOKES EQUATION
 02/21/1995 - 02/06/2000 FY01: \$0 Total: \$480,000
Prin. Invest.: D L WHITFIELD
Tech. Officer: GRC/E R MCFARLAND
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2176 MISSISSIPPI STATE UNIV 6176
 DEVELOPMENT OF A PARALLEL TURBOMACHINERY FLOW SOLV ER
 06/22/1998 - 01/31/2002 FY01: \$35,000 Total: \$225,000
Prin. Invest.: W R BRILEY
Tech. Officer: GRC/E R MCFARLAND
CASE Category: 46 - MECHANICAL ENGR

NAG 3 2235 MISSISSIPPI STATE UNIV 6177
 INTEGRATED GEOMETRY/GRID/SIMULATION SOFTWARE FOR S INGLE AND
 MULTI-ELEENT AIRFOILS WITH ICE ACCRETIO
 02/22/1999 - 03/31/2001 FY01: \$80,000 Total: \$210,313
Prin. Invest.: B K SONI
Tech. Officer: GRC/Y K CHOO
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2562 MISSISSIPPI STATE UNIV 6178
 ICEWING - A MESH GENERATION SYSTEM FOR COMPLEX THR EE-DIMEN-
 SIONAL ICED WING CONFIGURATIONS
 03/05/2001 - 02/04/2002 FY01: \$61,087 Total: \$61,087
Prin. Invest.: D THOMPSON
Tech. Officer: GRC/Y K CHOO
CASE Category: 41 - AERONAUTICAL ENGR

NAG 5 11127 MISSISSIPPI STATE UNIV 6179
 DELTA AREA SCIENCE & TECHNOLOGY ACADEMY
 07/26/2001 - 07/14/2002 FY01: \$70,000 Total: \$70,000
Prin. Invest.: B JOINER
Tech. Officer: GSFC/M MATHEWS
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1566 MISSISSIPPI STATE UNIV 6180
 NOVEL APPROACHES REGARDING PROTEIN SOLUBILITY
 02/23/1999 - 11/30/2002 FY01: \$103,550 Total: \$346,550
Prin. Invest.: W W WILSON, A ASONOV
Tech. Officer: MSFC/B V GUYNES
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 8 1837 MISSISSIPPI STATE UNIV 6181
 HIGH THROUGHTPUT SCREEN OF PROTEIN-PROTEIN INTER- ACTIONS BY
 MICROCHIP SPACE
 08/22/2001 - 11/30/2004 FY01: \$32,000 Total: \$32,000
Prin. Invest.: W W WILSON
Tech. Officer: MSFC/B GUYNES
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG13 99018 **MISSISSIPPI STATE UNIV** **6182**
 LEAF AREA AND VOLUME ESTIMATES IN LOBLOLLY PINE FOREST DERIVED
 FROM AERIAL IMAGING LIDAR
 07/30/1999 - 11/01/2001 FY01: \$65,000 Total: \$247,132
Prin. Invest.: S ROBERTS
Tech. Officer: SSC/R MCKELLIP
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAS 3 00181 **MISSISSIPPI STATE UNIV** **6183**
 MODIFICATION OF TURBO SOFTWARE
 09/29/2000 - 10/01/2005 FY01: \$200,000 Total: \$325,000
Prin. Invest.: J CHEN, D L WHITEFIELD, R BRILEY
Tech. Officer: GRC/E MCFARLAND, GRC/D VAN ZANTE
CASE Category: 41 - AERONAUTICAL ENGR

NAS13 98033 **MISSISSIPPI STATE UNIV** **6184**
 RESEARCH & DEVELOPMENT NASA AND RESIDENT AGENCIES
 03/23/1998 - 03/22/2003 FY01: \$4,699,265 Total: \$14,721,852
Prin. Invest.: L RITCHIE, BULLINGTON, D WIESENBURG
Tech. Officer: SSC/D POWE
CASE Category: 33 - OCEANOGRAPHY

NCC13 99001 **MISSISSIPPI STATE UNIV** **6185**
 ROLE OF LAND-GRANT UNIV IN APPLICATIONS OF REMOTE SENSING
 02/19/1999 - 03/21/2004 FY01: \$2,500,000 Total: \$12,500,000
Prin. Invest.: D SHAW, N M COX
Tech. Officer: SSC/H CARR
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT13 52741 **MISSISSIPPI STATE UNIV** **6186**
 ENHANCEMENT OF CRYOGENIC FLUID FLOW SIMULATION CAPABILITIES &
 CONTROLLER DESIGN TEST FACILITIES
 05/20/2000 - 07/31/2001 FY01: \$0 Total: \$0
Prin. Invest.: R FOLLET
Tech. Officer: SSC/R TRAVIS
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 9197 **MISSISSIPPI VALLEY STATE UNIV.** **6187**
 MISSISSIPPI VALLEY STATE UNIV PACE PROGRAM
 03/09/2000 - 02/28/2002 FY01: \$99,921 Total: \$199,659
Prin. Invest.: C BLAND
Tech. Officer: GSFC/M STOUTSENBERGER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9535 **MISSISSIPPI VALLEY STATE UNIV.** **6188**
 INTEGRATING REMOTE SENSING/GIS TECHNOLOGY & RSCH INTO MSET
 EDUCATION
 05/01/2000 - 05/14/2002 FY01: \$0 Total: \$200,000
Prin. Invest.: C BLAND
Tech. Officer: GSFC/C PERSON
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG13 51 **MISSISSIPPI VALLEY STATE UNIV.** **6189**
 INCORPORATING INFORMATION TECHNOLOGY TO ENTERPRISE ZONES
 AND EMPOWERMENT COMMUNITY SCHOOL SYSTEMS
 06/30/1997 - 03/31/2000 FY01: -\$25,890 Total: \$355,128
Prin. Invest.: S J WHITE
Tech. Officer: JSC/N SULLIVAN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG13 98004 **MISSISSIPPI VALLEY STATE UNIV.** **6190**
 RESPONSE OF A LEAF AND CANOPY SPECTRAL REFLECTANCE TO
 DROUGHT STRESS IN SOYBEANS
 03/31/1998 - 09/30/2001 FY01: \$0 Total: \$299,352
Prin. Invest.: R BAHADUR
Tech. Officer: JSC/G CARTER
CASE Category: 55 - AGRICULTURE

NAG13 99003 **MISSISSIPPI VALLEY STATE UNIV.** **6191**
 IMPROVING TEACHERS AND STUDENTS ACHIEVEMENT IN MATHEMATICS
 AND SCIENCE
 02/17/1999 - 02/17/2002 FY01: \$197,853 Total: \$591,503
Prin. Invest.: S J WHITE
Tech. Officer: SSC/N S SULLIVAN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG13 99026 **MISSISSIPPI VALLEY STATE UNIV.** **6192**
 RESPONSE OF SOYBEAN LEAF & CANOPY SPECTRAL REFLECT ANCE TO
 CHELATE ASSISTED LEAD JUTPEXTRACTOPM
 09/01/1999 - 09/27/2002 FY01: \$77,299 Total: \$199,920
Prin. Invest.: R BAHUR
Tech. Officer: JSC/R TRAVIS
CASE Category: 55 - AGRICULTURE

NAG 5 7671 **UNIV OF MISSISSIPPI - MEDICAL CENTER** **6193**
 FUNDING FOR 'THE UTILITY OF LOW COST THERMAL SENSORS IN
 ARCHAEOLOGICALRESEARCH' (SENH98-0125)
 09/01/1998 - 02/28/2001 FY01: \$0 Total: \$100,000
Prin. Invest.: J K JOHNSON
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICALSCIENCE

NAG13 00036 **UNIV OF MISSISSIPPI - UNIV** **6194**
 THE UNIV OF MS REMOTE SENSING AND SPACE LAW CENTER OF EXCEL-
 LENCE
 04/06/2000 - 04/05/2002 FY01: \$0 Total: \$500,000
Prin. Invest.: J GABRYNOWICZ, R MCLAUGHLIN, R RYCHLAK
Tech. Officer: SSC/M MICK
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG13 00037 **UNIV OF MISSISSIPPI - UNIV** **6195**
 THE UNIV OF MISSISSIPPI GEOINFORMATICS CENTER
 05/08/2000 - 05/07/2002 FY01: \$0 Total: \$1,826,459
Prin. Invest.: G EASSON
Tech. Officer: SSC/N SOVIK
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG13 01004 **UNIV OF MISSISSIPPI - UNIV** **6196**
 NEW GRANT AWARD GEOSPATIAL INFORMATION TECHNOLOGY EDUCA-
 TION:
 07/12/2001 - 07/02/2002 FY01: \$1,000,000 Total: \$1,000,000
Prin. Invest.: J JOHNSON, P LAWHEAD
Tech. Officer: SSC/D P POWE
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NCC 5 405 **UNIV OF MISSISSIPPI - UNIV** **6197**
 NASA EPSCOR: PREPARATORY GRANT PROPOSAL
 05/17/1999 - 12/31/2001 FY01: \$0 Total: \$450,000
Prin. Invest.: P SUKANEK
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 574 UNIV OF MISSISSIPPI - UNIV 6198
 MISSISSIPPI NASA EPSCOR PROGRAM
 09/26/2001 - 07/31/2004 FY01: \$258,000 Total: \$258,000
Prin. Invest.: P SUKANEK
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40032 UNIV OF MISSISSIPPI - UNIV 6199
 TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE
 AND FELLOWSHIP PROGRAM.
 02/13/1997 - 02/28/2001 FY01: -\$85,294 Total: \$938,456
Prin. Invest.: P R SUKANEK *Prin. Invest.:* NONE
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40098 UNIV OF MISSISSIPPI - UNIV 6200
 MISSISSIPPI SPACE GRANT COLLEGE AND FELLOWSHIP PRO GRAM
 02/28/2001 - 02/28/2002 FY01: \$464,544 Total: \$464,544
Prin. Invest.: P SUKANEK
Tech. Officer: GSFC/D D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 4570 UNIV OF SOUTHERN MISSISSIPPI 6201
 OPTICAL ASSESSMENT OF BIOGEOCHEMICAL PROPERTIES IN APPLICA
 TION TO MULTI-SPECTRAL AND HIGH RESOLUTION
 07/23/1997 - 10/14/2000 FY01: \$0 Total: \$260,988
Prin. Invest.: S LOHRENZ
Tech. Officer: GSFC/J A CAMPBELL
CASE Category: 33 - OCEANOGRAPHY

NAG 5 9770 UNIV OF SOUTHERN MISSISSIPPI 6202
 OPTICAL ASSESSMENT OF BIOGEOCHEMICAL PROPERTIES IN COASTAL
 WATERS WITH APPLICATION TO MULTI-SPECTRAL
 07/12/2000 - 01/31/2002 FY01: \$35,716 Total: \$58,216
Prin. Invest.: S E LOHRENZ
Tech. Officer: GSFC/J MARRA
CASE Category: 33 - OCEANOGRAPHY

NAG 5 10668 UNIV OF SOUTHERN MISSISSIPPI 6203
 EXPLORING THE RELATIONSHIP BETWEEN SIZE AND CATALY TIC
 CAPACITY OF RNA CATALYSTS
 03/21/2001 - 03/31/2002 FY01: \$167,200 Total: \$167,200
Prin. Invest.: F HUANG
Tech. Officer: GSFC/M MEYER
CASE Category: 11 - ASTRONOMY

NAG 8 1466 UNIV OF SOUTHERN MISSISSIPPI 6204
 FRONTAL POLYMERIZATION IN MICROGRAVITY
 02/10/1998 - 12/31/2002 FY01: \$281,770 Total: \$735,520
Prin. Invest.: J A POJMAN
Tech. Officer: MSFC/W S SPEARMAN
CASE Category: 13 - PHYSICS

NAG 8 1684 UNIV OF SOUTHERN MISSISSIPPI 6205
 "PHASE SEPARATION AND SELF-ASSEMBLY OF LIQUID CRYSTALS AND
 POLYMER DISPERSIONS"
 06/05/2000 - 11/30/2003 FY01: \$85,500 Total: \$125,500
Prin. Invest.: J WHITEHEAD
Tech. Officer: MSFC/P DOTY
CASE Category: 49 - ENGINEERING, OTHER

NAG13 01005 UNIV OF SOUTHERN MISSISSIPPI 6206
 A PROPOSAL TO DEVELOP AND OPERATE A COASTAL ZONE APPLICA
 TIONS CENTER/ADVANCED GIS/REMOTE SENSING
 07/30/2001 - 06/30/2003 FY01: \$2,993,400 Total: \$2,993,400
Prin. Invest.: W HAWKINS
Tech. Officer: SSC/M THOMAS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

MISSOURI

NAG 1 2253 SAINT LOUIS UNIV 6207
 DEV OF A LOW REYNOLDS NUMBER TRANSITION-SENSITIZED TURBU
 LENCE MODEL
 11/23/1999 - 12/31/2000 FY01: \$0 Total: \$35,000
Prin. Invest.: W D THACKER
Tech. Officer: LARC/J B GATSKI
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2469 SAINT LOUIS UNIV 6208
 INVESTIGATION OF THERMAL PROCESSING ON THE PEOPERT IES OF
 PS304, A SOLID LUBRICANT COATING
 06/27/2000 - 06/14/2001 FY01: \$0 Total: \$32,201
Prin. Invest.: P A BENYO
Tech. Officer: GRC/C DELLACORTE
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 3 2642 SAINT LOUIS UNIV 6209
 INVESTIGATION OF THERMAL PROCESSING ON THE PROPERT IES OF
 PS305, A SOLID LUBRICANT COATING
 08/02/2001 - 12/16/2001 FY01: \$31,007 Total: \$31,007
Prin. Invest.: P A BENYO
Tech. Officer: GRC/C DELLACORTE
CASE Category: 47 - METAL & MATERIALS ENGR

NCC 1 01003 SAINT LOUIS UNIV 6210
 FORMULATION OF A TRANSITION-SENSITIZED TURBULENCE MODEL
 12/19/2000 - 12/31/2001 FY01: \$35,000 Total: \$35,000
Prin. Invest.: W D THACKER
Tech. Officer: LARC/T B GATSKI
CASE Category: 41 - AERONAUTICAL ENGR

NGT 5 50201 SAINT LOUIS UNIV 6211
 TRANSCRIPTIONAL REGULATION OF DIFFERENTIATIMG OSTEOBAST
 07/02/1998 - 06/30/2000 FY01: \$0 Total: \$44,000
Prin. Invest.: N C PARTRIDGE
Tech. Officer: HQ/L SMITH
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 1 01037 UNIV OF MISSOURI - COLUMBIA 6212
 DESIGN & EXPERIMENTAL VERIFICATION OF DEPLOYABLE/ INFLATABLE
 ULTRA-LIGHTWEIGHT STRUCTURES
 06/08/2001 - 05/31/2004 FY01: \$79,054 Total: \$79,054
Prin. Invest.: P PAI
Tech. Officer: LARC/W K BELVIN
CASE Category: 49 - ENGINEERING, OTHER

NAG 2 1372 UNIV OF MISSOURI - COLUMBIA 6213
 SIGNALING OF MUSCLE ATROPHY WITH UNLOADING
 08/17/1999 - 08/31/2002 FY01: \$150,219 Total: \$365,206
Prin. Invest.: F W BOOTH
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 5 3900 UNIV OF MISSOURI - COLUMBIA 6214
 INTERCOMPARISON, VISUALIZATION AND ANALYSIS TESTBE ASSIMILATED
 DATA SETS AND SATELLITE DATA.
 03/03/1997 - 02/28/2001 FY01: \$0 Total: \$405,838
Prin. Invest.: K PALANIAPPAN
Tech. Officer: GSFC/A NEGRI
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 4607 UNIV OF MISSOURI - COLUMBIA 6215
 VESTIBULAR ONTOGENY, ADAPTATION, AND THE EFFECTS O LOADING IN
 THE RAT
 05/19/1997 - 11/14/2001 FY01: \$0 Total: \$296,020
Prin. Invest.: T A JONES
Tech. Officer: GSFC/M AVERNER
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 5 6772 UNIV OF MISSOURI - COLUMBIA 6216
 INVESTIGATION OF A LARGE, COMPLETE SAMPLE OF GALAX Y GROUPS
 USING THE ROSROSAT ALL-SKY SURVEY
 01/22/1998 - 01/31/2001 FY01: \$0 Total: \$90,767
Prin. Invest.: J BURNS
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 6837 UNIV OF MISSOURI - COLUMBIA 6217
 GREENLAND ICE SHEET ELEVATION CHANGE STUDIES USING RADAR
 ALTIMETRY WITH IMPROVED ORBIT ERROR ANALYS
 01/08/1998 - 12/31/2000 FY01: \$0 Total: \$150,214
Prin. Invest.: D KLUEVER
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 - ENVIRONMENTALSCI, OTHER

NAG 5 8344 UNIV OF MISSOURI - COLUMBIA 6218
 BAYESIAN HIERARCHICAL AIR-SEA INTERACTION MODELING : DEVELOP-
 MENTAND APPLICATION IN THE LABR
 04/13/1999 - 05/31/2002 FY01: \$16,231 Total: \$51,413
Prin. Invest.: C K WIKLE
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8557 UNIV OF MISSOURI - COLUMBIA 6219
 ELEVATION CHANGE OF THE SOUTHERN GREENLAND ICE SHEET: INTER-
 PRETATION
 06/18/1999 - 12/31/2000 FY01: \$0 Total: \$59,378
Prin. Invest.: C DAVIS, NONE
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9145 UNIV OF MISSOURI - COLUMBIA 6220
 ANDEAN MOUNTAIN BUILDING: AN INTEGRATED TOPO GRAPH GPS, SEIS-
 MOLOGICAL AND NUMERICAL STUDY
 03/07/2000 - 03/14/2002 FY01: \$62,500 Total: \$100,000
Prin. Invest.: M LIU
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 9555 UNIV OF MISSOURI - COLUMBIA 6221
 EVOLUTION OF THE RIBOZYME RNASE P RNA BY TRANSACTI VATION
 05/04/2000 - 04/30/2002 FY01: \$120,000 Total: \$233,040
Prin. Invest.: F SCHMIDT
Tech. Officer: GSFC/M MEYER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10720 UNIV OF MISSOURI - COLUMBIA 6222
 MOBILE WIRELESS ACCESS TO LOW RESOLUTION PICTURE TAKING (LRPT)
 NOAA WEATHER IMAGES
 05/03/2001 - 05/14/2002 FY01: \$50,000 Total: \$50,000
Prin. Invest.: C CHEN
Tech. Officer: GSFC/P YEH
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 11081 UNIV OF MISSOURI - COLUMBIA 6223
 20-YEAR ELEVATION CHANGE OF THE SOUTHERN GREENLAND ICE SHEET
 FROM SATELLITE RADAR ALTIMETRY
 07/10/2001 - 06/30/2002 FY01: \$48,977 Total: \$48,977
Prin. Invest.: C DAVIS
Tech. Officer: GSFC/W ABDALATI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 8 1741 UNIV OF MISSOURI - COLUMBIA 6224
 TRAJECTORY OPTIMIZATION PROGRAM FOR NEAR-EARTH LOW-THRUST
 SPACECRAFT
 11/01/2000 - 08/31/2001 FY01: \$55,933 Total: \$55,933
Prin. Invest.: C A KLUEVER
Tech. Officer: MSFC/J M HANSON, MSFC/G A DUKEMAN
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 9 1210 UNIV OF MISSOURI - COLUMBIA 6225
 DESIGN & THERMAL CONTROL OF ADVANCED SPACE SUITS
 03/24/2000 - 03/31/2003 FY01: \$15,000 Total: \$89,999
Prin. Invest.: S NAIR, J B MILES
Tech. Officer: JSC/G A THOMAS
CASE Category: 49 - ENGINEERING, OTHER

NAG 9 1230 UNIV OF MISSOURI - COLUMBIA 6226
 CONSTRUCT THE LIFE SCIENCES CENTER
 09/29/2000 - 08/31/2005 FY01: \$14,967,000 Total: \$27,767,000
Prin. Invest.: G M CHIPPENDALE
Tech. Officer: JSC/R P KEHOE, JSC/P CAMPBELL
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG13 00006 UNIV OF MISSOURI - COLUMBIA 6227
 CENTER FOR LOCAL AND REGIONAL GOVERNMENT APPLICATI ONS
 (CLARA)
 03/13/2000 - 05/31/2002 FY01: \$114,999 Total: \$324,999
Prin. Invest.: D D HIPPLE
Tech. Officer: SSC/R MCKELLIP
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG13 99014 UNIV OF MISSOURI - COLUMBIA 6228
 INST FOR THE COMMERCIAL DEVELOPMENT OF REMOTE SENSING
 TECHNOLOGY (ICREST)
 04/19/1999 - 12/31/2001 FY01: \$0 Total: \$3,590,000
Prin. Invest.: D BLANCHARD
Tech. Officer: JSC/R MCKELLIP
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 1 01017 UNIV OF MISSOURI - COLUMBIA 6229
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) (PREVIOUS
 GRANT NO. NGT-1-52239)
 05/25/2001 - 06/30/2003 FY01: \$12,000 Total: \$12,000
Prin. Invest.: O VASILYEV
Tech. Officer: LARC/T B GATSKI
CASE Category: 41 - AERONAUTICAL ENGR

NGT 1 52239 UNIV OF MISSOURI - COLUMBIA 6230
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
 05/26/2000 - 06/30/2001 FY01: \$12,000 Total: \$22,000
Prin. Invest.: O VASILYEV
Tech. Officer: LARC/T B GATSKI
CASE Category: 41 - AERONAUTICAL ENGR

NGT 5 50205 UNIV OF MISSOURI - COLUMBIA 6231
 VASCULAR CONTROL OF SKELETAL MUSCLE BLOOD FLOW AFT ER SIMU-
 LATEDMICROGRAVITY (GSRP STUDENT:
 07/09/1998 - 06/30/2001 FY01: \$0 Total: \$44,000
Prin. Invest.: M LAUGHLIN
Tech. Officer: HQ/A NURRIDIN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 8 52850 UNIV OF MISSOURI - COLUMBIA 6232
 ROBUST GUIDANCE SCHEMES FOR LOW THRUST EARTH ORBIT
 07/27/1998 - 08/14/2000 FY01: \$0 Total: \$44,000
Prin. Invest.: C A KLUEVER
Tech. Officer: MSFC/J F DOWDY
CASE Category: 46 - MECHANICAL ENGR

NGT13 52747 UNIV OF MISSOURI - COLUMBIA 6233
 REMOTE SENSING INFO. PRODUCTS FROM HIGH RESOLUTION SATELLITE
 IMAGERY FOR LOCAL GOV. APP:S
 06/08/2001 - 06/30/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: A K SHACKLEFORD
Tech. Officer: SSC/B DAVIS
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 1 01050 UNIV OF MISSOURI - ROLLA 6234
 MODELING OF INTERACTION BETW PERMEABILITY & DAMAGE IN PMC
 LAMINATES FOR THE NASA RLV
 04/05/2001 - 04/04/2004 FY01: \$81,286 Total: \$81,286
Prin. Invest.: S ROY
Tech. Officer: LARC/T S GATES
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 1 01122 UNIV OF MISSOURI - ROLLA 6235
 HIGH-SPEED PROPULSION SYSTEM MODELING AND ANALYSIS
 08/29/2001 - 08/28/2004 FY01: \$60,001 Total: \$60,001
Prin. Invest.: D W RIGGINS
Tech. Officer: LARC/C R MCCLINTON, LARC/S H STACK
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2185 UNIV OF MISSOURI - ROLLA 6236
 ADVANCED EXTRACTIVE AEROSOL SAMPLING
 07/27/1998 - 09/30/2000 FY01: \$0 Total: \$303,149
Prin. Invest.: P D WHITEFIELD, D E HAGEN
Tech. Officer: GRC/C C WEY
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2340 UNIV OF MISSOURI - ROLLA 6237
 STUDIES IN ACOUSTIC PROPAGATION AND RADIATION STUDIES IN
 ACOUSTIC PROPAGATION AND RADIATION
 02/25/2000 - 01/31/2002 FY01: \$0 Total: \$75,381
Prin. Invest.: W EVERSMAN
Tech. Officer: GRC/E ENVIA
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2357 UNIV OF MISSOURI - ROLLA 6238
 CHARACTERIZATION OF ENVIRONMENTAL DURABILITY OF A POLYMER
 MATRIX COMPOSITE
 03/15/2000 - 01/31/2002 FY01: \$31,731 Total: \$65,644
Prin. Invest.: D ROY
Tech. Officer: GRC/M A MEADER
CASE Category: 46 - MECHANICAL ENGR

NAG 3 2608 UNIV OF MISSOURI - ROLLA 6239
 SECOND-LAW BASED PERFORMED OF AEROSPACE TURBOSHAFT
 ENIGNES & ENGINE COMPONENTS
 05/11/2001 - 12/14/2001 FY01: \$59,999 Total: \$59,999
Prin. Invest.: D W RIGGINS
Tech. Officer: GRC/D THURMAN
CASE Category: 41 - AERONAUTICAL ENGR

NAG 8 1465 UNIV OF MISSOURI - ROLLA 6240
 KINETICS OF NUCLEATION AND CRYSTAL GROWTH IN GLASS FORMING
 METALS IN MICROGRAVITY
 02/10/1998 - 01/31/2002 FY01: \$211,630 Total: \$617,880
Prin. Invest.: D E DAY, C S RAY
Tech. Officer: MSFC/M PURVEY
CASE Category: 13 - PHYSICS

NAG 8 1656 UNIV OF MISSOURI - ROLLA 6241
 MODELS OF MASS TRANSPORT DURING MICROGRAVITY CRY- STAL
 GROWTH OF ALLOYED SEMICONDUCTORS IN A MAGETIC
 04/24/2000 - 04/30/2001 FY01: \$0 Total: \$40,000
Prin. Invest.: N MA
Tech. Officer: MSFC/P DOTY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1805 UNIV OF MISSOURI - ROLLA 6242
 ROBUST ADAPTIVE CRITIC BASED NEUROCONTROLLERS FOR REUSABLE
 LAUNCH VEHICLES
 07/25/2001 - 07/31/2002 FY01: \$34,999 Total: \$34,999
Prin. Invest.: S N BALAKRISHNAN
Tech. Officer: MSFC/D KRUPP, MSFC/C HALL
CASE Category: 46 - MECHANICAL ENGR

NCC 2 5419 UNIV OF MISSOURI - ROLLA 6243
 ADAPTIVE CRITIC BASED RECONFIGURABLE CONTROLLER
 02/14/2001 - 01/31/2002 FY01: \$60,000 Total: \$60,000
Prin. Invest.: S N BALAKRISHNAN
Tech. Officer: GSFC/J J TOTAH
CASE Category: 41 - AERONAUTICAL ENGR

NCC 2 5423 UNIV OF MISSOURI - ROLLA 6244
 AN ANALYTICAL METHOD FOR DESIGN & AMANUFACTURING T O CAPTURE
 POTENTIAL FAILURE MODES IN HIGH RISK AE
 02/26/2001 - 02/28/2002 FY01: \$50,640 Total: \$50,640
Prin. Invest.: R B STONE
Tech. Officer: ARC/I Y TUMER
CASE Category: 41 - AERONAUTICAL ENGNR

NGT 5 40060 UNIV OF MISSOURI - ROLLA 6245
 TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE
 AND FELLOWSHIP PROGRAM.
 03/04/1997 - 02/28/2001 FY01: \$0 Total: \$807,500
Prin. Invest.: B P SELBERG
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40112 UNIV OF MISSOURI - ROLLA 6246
 MISSOURI SPACE GRANT COLLEGE & FELLOWSHIP PROGRAM
 03/06/2001 - 02/28/2002 FY01: \$212,500 Total: \$212,500
Prin. Invest.: F FINIASH
Tech. Officer: GSFC/D D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 3 2592 UNIV OF MISSOURI - SAINT LOUIS 6247
 THE THERMO-CHEMISTRY OF HIGH ENERGY DENSITY MISSLE FUELS
 04/23/2001 - 02/28/2002 FY01: \$30,000 Total: \$30,000
Prin. Invest.: J CHICKOS
Tech. Officer: GRC/M J ZEHE
CASE Category: 12 - CHEMISTRY

NAG 5 6091 UNIV OF MISSOURI - SAINT LOUIS 6248
 METHANE ABSORPTION SPECTROSCOPY IN THE 700-1000NM R SURE
 DEPENDENCES & DETERMINATIONS OF THE INTER-BA
 08/26/1997 - 06/14/2001 FY01: \$0 Total: \$100,000
Prin. Invest.: D J O'BRIEN
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 2 945 WASHINGTON UNIV - ST. LOUIS 6249
 CHRONIC RECORDING OF OTOLITH NERVES IN MICROGRAVIT Y
 12/16/1994 - 11/30/1999 FY01: -\$60,416 Total: \$969,576
Prin. Invest.: S M HIGHSTEIN
Tech. Officer: ARC/W E HINDS, ARC/C M WINGET
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 2 1457 WASHINGTON UNIV - ST. LOUIS 6250
 DEFORMABLE WAKE DYNAMICS FOR IMPROVED MANEUVERING FLIGHT
 SIMULATION
 03/07/2001 - 02/14/2002 FY01: \$43,821 Total: \$43,821
Prin. Invest.: D A PETERS
Tech. Officer: ARC/C TUNG, ARC/T MAIER
CASE Category: 46 - MECHANICAL ENGR

NAG 2 1493 WASHINGTON UNIV - ST. LOUIS 6251
 MULTISENSORY INTERACTIONS TO DISCRIMINATE GRAVITY FROM
 TRANSLATIONAL ACCELERATIONS
 07/31/2001 - 06/30/2002 FY01: \$188,831 Total: \$188,831
Prin. Invest.: D E ANGELAKI
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 2 1500 WASHINGTON UNIV - ST. LOUIS 6252
 EVOLUTION OF ANTHROPOD NEURAL PATTERN
 07/06/2001 - 06/30/2002 FY01: \$76,223 Total: \$76,223
Prin. Invest.: J B SKEATH
Tech. Officer: ARC/M M AVERNER
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 3 1910 WASHINGTON UNIV - ST. LOUIS 6253
 GAS - PHASE COMBUSTION SYNTHESIS OF METAL AND ERAM IC NANO-
 PARTICLES
 06/24/1996 - 06/22/2001 FY01: \$0 Total: \$288,238
Prin. Invest.: R L AXELBAUM, B H CHAO
Tech. Officer: GRC/S A GOKOGLE
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2625 WASHINGTON UNIV - ST. LOUIS 6254
 DEVELOPMENT OF A MICROSCALE PARTICULATE CLASSIFIER (MIPAC)
 06/01/2001 - 09/30/2001 FY01: \$25,000 Total: \$25,000
Prin. Invest.: D CHEN
Tech. Officer: GRC/P S GREENBERG
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 3657 WASHINGTON UNIV - ST. LOUIS 6255
 STRUCTURE AND EVOLUTION OF OUTER PLANET SATELLITES
 03/19/1997 - 10/31/2001 FY01: \$30,900 Total: \$151,632
Prin. Invest.: W B MCKINNON
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 3870 WASHINGTON UNIV - ST. LOUIS 6256
 SURFACE PROCESSES ON VENUS AND MARS
 02/11/1997 - 03/31/2001 FY01: \$0 Total: \$649,054
Prin. Invest.: R E ARVIDSON
Tech. Officer: GSFC/D G SENSKE
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 4098 WASHINGTON UNIV - ST. LOUIS 6257
 ISOTOPIC STRUCTURES AND FINE-SCALE CHRONOLOGY IN P
 06/23/1997 - 03/31/2002 FY01: \$0 Total: \$427,000
Prin. Invest.: D A PODOSEK
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 4172 WASHINGTON UNIV - ST. LOUIS 6258
 ANALYTICAL, EXPERIMENTAL, AND MODELING STUDIES OF IGNEOUS
 ROCKS
 04/09/1997 - 06/30/2001 FY01: \$0 Total: \$988,000
Prin. Invest.: D A HASKIN
Tech. Officer: GSFC/J BOYCE
CASE Category: 12 - CHEMISTRY

NAG 5 4173 WASHINGTON UNIV - ST. LOUIS 6259
 LUNAR AND PLANETARY SURFACE DYNAMICS AND EARLY HIS
 06/02/1997 - 12/14/2000 FY01: \$0 Total: \$645,000
Prin. Invest.: D HOHENBERG
Tech. Officer: GSFC/J BOYCE
CASE Category: 12 - CHEMISTRY

NAG 5 4323 WASHINGTON UNIV - ST. LOUIS 6260
 KINETICS OF THERMOCHEMICAL GAS-SOLID REACTIONS IMP RETENTION
 IN THE SOLAR NEBULA: IMPLICATIONS FOR
 04/09/1997 - 01/31/2001 FY01: -\$29 Total: \$232,785
Prin. Invest.: D FEGLEY
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 4435 WASHINGTON UNIV - ST. LOUIS 6261
 PARTICIPATION IN THE DATA ANALYSIS AND SCIENCE ACT ORBITING
 LASER ALTIMETER (MOLA) & THE MARS GLOBAL
 04/28/1997 - 12/31/2001 FY01: \$125,000 Total: \$560,000
Prin. Invest.: R J PHILLIPS
Tech. Officer: GSFC/D E SMITH
CASE Category: 99 - MULTIINTERDISCIPL, OTHER

NAG 5 4448 WASHINGTON UNIV - ST. LOUIS 6262
 PLANETARY INTERIOR MODELLING AND TECTONIC IMPLICAT
 05/08/1997 - 12/31/2001 FY01: \$117,000 Total: \$554,150
Prin. Invest.: D J PHILLIPS
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 4564 WASHINGTON UNIV - ST. LOUIS 6263
 KINETICS OF THERMOCHEMICAL REACTIONS IMPORTANT IN SULFUR
 CYCLE
 05/29/1997 - 12/31/2001 FY01: \$0 Total: \$343,206
Prin. Invest.: D FEGLEY
Tech. Officer: GSFC/D BOGAN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 4565 WASHINGTON UNIV - ST. LOUIS 6264
 CHEMICAL WEATHERING KINETICS OF BASALT ON VENUS
 05/30/1997 - 02/14/2002 FY01: \$0 Total: \$227,838
Prin. Invest.: D FEGLEY
Tech. Officer: GSFC/D BOGAN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 4642 WASHINGTON UNIV - ST. LOUIS 6265
 RAMAN SPECTROMETER FOR SURFACE IDENTIFICATION OF M
 COMPOUNDS ON SILICATE PLANETS AND SMALL SOLAR-SYS
 06/06/1997 - 06/30/2000 FY01: \$0 Total: \$167,390
Prin. Invest.: D A HASKIN
Tech. Officer: GSFC/B CAMPBELL
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 5078 WASHINGTON UNIV - ST. LOUIS 6266
 BASIC RESEARCH ON THE COMPOSITION OF HEAVY COSMIC RAYS: TIGER
 05/03/1996 - 11/30/2001 FY01: \$325,000 Total: \$1,812,700
Prin. Invest.: R W BINNS
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/B A MERRITT
CASE Category: 13 - PHYSICS

NAG 5 5110 WASHINGTON UNIV - ST. LOUIS 6267
 DEVELOPMENT OF SIFTER WITH SIMULTANEOUS TRACKING AND
 CALORIMETRY
 02/12/1997 - 05/31/2001 FY01: \$0 Total: \$410,000
Prin. Invest.: R BINNS
Tech. Officer: GSFC/H NEEDLEMAN
CASE Category: 13 - PHYSICS

NAG 5 5114 WASHINGTON UNIV - ST. LOUIS 6268
 A BALLOON-BORNE HARD X-RAY IMAGING SPECTROMETER BASED ON
 CDZNTTE TECHNOLOGY
 04/09/1997 - 09/30/2000 FY01: \$0 Total: \$161,000
Prin. Invest.: P L HINK
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/B A MERRITT
CASE Category: 13 - PHYSICS

NAG 5 5154 WASHINGTON UNIV - ST. LOUIS 6269
 ULTRA HEAVY AND HEAVY COSMIC-RAY MEASUREMENTS ON ACCESS
 03/26/1998 - 06/30/2001 FY01: \$0 Total: \$112,160
Prin. Invest.: W R BINNS
Tech. Officer: GSFC/H NEEDLEMAN
CASE Category: 13 - PHYSICS

NAG 5 5215 WASHINGTON UNIV - ST. LOUIS 6270
 A PROPOSAL FOR CONVERSION OF THE TRANS-IRON GALACTIC
 ELEMENT RECORDER (TIGER) PIHINK
 12/01/1998 - 11/30/2002 FY01: \$209,442 Total: \$529,732
Prin. Invest.: P HINK
Tech. Officer: GSFC/B MERRITT
CASE Category: 41 - AERONAUTICAL ENGR

NAG 5 5296 WASHINGTON UNIV - ST. LOUIS 6271
 SIFTER SCINTILLATING FIBER TELESCOPE FOR ENERGETIC
 06/12/2000 - 12/31/2001 FY01: \$0 Total: \$64,000
Prin. Invest.: W R BINNS
Tech. Officer: WFF/B A MERRITT
CASE Category: 13 - PHYSICS

NAG 5 6125 WASHINGTON UNIV - ST. LOUIS 6272
 ACOUSTIC COMPOSITION EXPERIMENT FOR DETERMINING H2 RATIO IN
 THE ATMOSPHERES OF THE JOVIAN PLANETS
 08/04/1997 - 07/14/2002 FY01: \$0 Total: \$467,327
Prin. Invest.: D FEGLEY
Tech. Officer: GSFC/B CAMPBELL
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 6366 WASHINGTON UNIV - ST. LOUIS 6273
 CHEMICAL MODELS OF THE PRESENT AND PRIMORDIAL ATMO GIANT
 PLANETS JUPITER, SATURN, URANUS AND NEPTUNE
 09/22/1997 - 12/31/2001 FY01: \$63,800 Total: \$283,926
Prin. Invest.: D FEGLEY
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 6756 WASHINGTON UNIV - ST. LOUIS 6274
 REGIONAL PLANETARY IMAGE FACILITY
 12/24/1997 - 06/30/2001 FY01: \$0 Total: \$61,951
Prin. Invest.: R ARVIDSON
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 6784 WASHINGTON UNIV - ST. LOUIS 6275
 COMPOSITION, LITHOLOGY, AND HETEROGENEITY OF THE L UNAR CRUST
 USING REMOTE-SENSING OF IMPACT-B
 01/28/1998 - 04/30/2000 FY01: -\$1 Total: \$63,199
Prin. Invest.: B L JOLLIFF
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 7140 WASHINGTON UNIV – ST. LOUIS 6276
 OPTICAL DESIGN AND BREADBOARD OF A RAMAN SPECTROMETER
 03/13/1998 – 03/31/2001 FY01: \$0 Total: \$267,726
Prin. Invest.: L HASKIN
Tech. Officer: GSFC/B CAMPBELL
CASE Category: 11 – ASTRONOMY

NAG 5 7149 WASHINGTON UNIV – ST. LOUIS 6277
 STUDIES OF PRESOLAR MATERIALS AND SOLAR NEBULA STRUCTURE AND EVOLUTION
 03/23/1998 – 07/31/2000 FY01: -\$13 Total: \$163,704
Prin. Invest.: F PODOSEK
Tech. Officer: HQ/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 7613 WASHINGTON UNIV – ST. LOUIS 6278
 DYNAMICS OF WETLANDS AMONG ENGINEERED PORTIONS OF MISSOURI RIVER SYSTEM
 07/22/1998 – 01/31/2002 FY01: \$60,000 Total: \$360,000
Prin. Invest.: R E ARVIDSON
Tech. Officer: GSFC/H V FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 7696 WASHINGTON UNIV – ST. LOUIS 6279
 HYDROTHERMAL ECOSYSTEMS IN A PLANETARY CONTEXT
 09/17/1998 – 01/31/2002 FY01: \$135,931 Total: \$425,728
Prin. Invest.: E L SHOCK
Tech. Officer: GSFC/M MEYER
CASE Category: 11 – ASTRONOMY

NAG 5 8056 WASHINGTON UNIV – ST. LOUIS 6280
 DEFORMATION OF THE EUROPEAN ICE SHELL BY TIDAL AND CONVECTION STRESSES
 01/15/1999 – 01/31/2002 FY01: \$0 Total: \$103,000
Prin. Invest.: W B MCKINNON
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 – ASTRONOMY

NAG 5 8194 WASHINGTON UNIV – ST. LOUIS 6281
 ADAPTIVE VISUAL-VESTIBULAR MECHANISMS AND GRAVITY
 05/12/1999 – 06/30/2000 FY01: -\$590 Total: \$99,409
Prin. Invest.: D E ANGELAKI
Tech. Officer: GSFC/C SAWIN
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 8336 WASHINGTON UNIV – ST. LOUIS 6282
 SOLID STATE AND MASS SPECTROMETRIC MEASUREMENT OF EXTRATERRESTRIAL MATERIALS
 02/24/1999 – 02/28/2002 FY01: \$405,000 Total: \$1,981,000
Prin. Invest.: T J BERNATOWICZ
Prin. Invest.: NONE
Tech. Officer: HQ/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 8536 WASHINGTON UNIV – ST. LOUIS 6283
 DEVELOPMENT OF HIGH QUANTUM EFFICIENCY UV/BLUE PHOTO-CATHODE EPITAXIAL SEMICONDUCTOR HETEROSTRUCTURE
 07/08/1999 – 01/14/2002 FY01: \$0 Total: \$576,028
Prin. Invest.: D LEOPOLD
Tech. Officer: GSFC/G MUCKLOW
CASE Category: 12 – CHEMISTRY

NAG 5 8568 WASHINGTON UNIV – ST. LOUIS 6284
 THE HIGH ENERGY X-RAY IMAGING SURVEY (HEXIS)
 05/24/1999 – 05/31/2001 FY01: \$0 Total: \$45,000
Prin. Invest.: P L HINK
Tech. Officer: GSFC/L KALUZIENSKI
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 8609 WASHINGTON UNIV – ST. LOUIS 6285
 SYNTHESIZING LUNAR PROSPECTOR, CLEMENTINE, AND APO LLO GEOCHEMICAL DATA TO UNDERSTAND THE GEOLOGY OF
 06/10/1999 – 06/30/2002 FY01: \$70,000 Total: \$176,000
Prin. Invest.: R L KOROTEV
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 8717 WASHINGTON UNIV – ST. LOUIS 6286
 GLOBAL CHEMICAL REACTOR OF PROTOPLANETARY DISK
 08/10/1999 – 07/31/2002 FY01: \$23,000 Total: \$68,000
Prin. Invest.: J T GLEAVES
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 8729 WASHINGTON UNIV – ST. LOUIS 6287
 PURCHASE AND INSTALLATION OF NANOSIMS 50
 08/10/1999 – 07/31/2002 FY01: \$350,000 Total: \$1,083,000
Prin. Invest.: R M WALKER
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 8899 WASHINGTON UNIV – ST. LOUIS 6288
 DEFORMATION OF THE EUROPEAN ICE SHELL BY TIDAL AND CONVECTIVE STRESSES: CONSTRAINTS FROM GEM DATA
 01/13/2000 – 01/31/2002 FY01: \$40,000 Total: \$69,000
Prin. Invest.: W MCKINNON
Tech. Officer: GSFC/D BOGAN
CASE Category: 11 – ASTRONOMY

NAG 5 8905 WASHINGTON UNIV – ST. LOUIS 6289
 COMPOSITION, LITHOLOGY, AND HETEROGENEITY OF THE LUNAR CRUST USING REMOTE-SENSING OF IMPACT-BASIN
 01/21/2000 – 01/31/2002 FY01: \$38,000 Total: \$74,100
Prin. Invest.: B L JOLLIFF
Tech. Officer: GSFC/J GRANT
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 9442 WASHINGTON UNIV – ST. LOUIS 6290
 LUNAR & PLANETARY SURFACE DYNAMICS & EARLY HISTORY
 04/14/2000 – 12/14/2001 FY01: \$224,000 Total: \$441,000
Prin. Invest.: C M HOHENBERG
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 9449 WASHINGTON UNIV – ST. LOUIS 6291
 STUDIES OF PRESOLAR MATERIALS AND SOLAR NEBULA STRUCTURE AND EVOLUTION
 04/12/2000 – 04/30/2002 FY01: \$82,000 Total: \$156,000
Prin. Invest.: F PODOSEK
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 9801 WASHINGTON UNIV – ST. LOUIS 6292
 ORIGIN & EVOLUTION OF THE SOLAR SYSTEM: MICROANALYTICAL
 STUDIES OF METEORITES & INTERPLANETARY DUST
 07/14/2000 – 02/28/2002 FY01: \$202,000 Total: \$387,000
Prin. Invest.: R M WALKER
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 10158 WASHINGTON UNIV – ST. LOUIS 6293
 WASHINGTON UNIV-REGIONAL PLANETARY IMAGE FACILITY
 12/18/2000 – 12/31/2001 FY01: \$24,473 Total: \$24,473
Prin. Invest.: R ARVIDSON
Tech. Officer: GSFC/D SENSKE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10186 WASHINGTON UNIV – ST. LOUIS 6294
 SPACE-BASED GRAVITATIONAL-WAVE OBSERVATIONS AS TOOLS FOR
 TESTING GENERAL RELATIVITY
 12/20/2000 – 12/31/2001 FY01: \$65,000 Total: \$65,000
Prin. Invest.: C M WILL
Tech. Officer: GSFC/P CRANE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10190 WASHINGTON UNIV – ST. LOUIS 6295
 HYDROGEOLOGY OF BASINS ON MARS
 01/03/2001 – 01/14/2002 FY01: \$138,000 Total: \$138,000
Prin. Invest.: R E ARVIDSON
Tech. Officer: GSFC/D SENSKE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 10227 WASHINGTON UNIV – ST. LOUIS 6296
 INTEGRATED STUDY OF THE GEOLOGY, COMPOSITION, & ORIGIN OF
 LUNAR MARE BASALTS
 01/04/2001 – 01/14/2002 FY01: \$35,000 Total: \$35,000
Prin. Invest.: B JOLLIFF
Tech. Officer: GSFC/D SENSKE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10426 WASHINGTON UNIV – ST. LOUIS 6297
 THE HISTORY OF PRESOLAR GRAINS
 02/16/2001 – 02/28/2002 FY01: \$386,000 Total: \$386,000
Prin. Invest.: T BERNATOWICZ
Tech. Officer: GSFC/J BOYCE
CASE Category: 12 – CHEMISTRY

NAG 5 10485 WASHINGTON UNIV – ST. LOUIS 6298
 GEOCHEMICAL & PETROLOGIC ANALYSIS & MODELING OF LUNAR ROCKS
 & REGOLITHS
 03/06/2001 – 03/14/2002 FY01: \$250,000 Total: \$250,000
Prin. Invest.: L HASKIN
Tech. Officer: GSFC/J BOYCE
CASE Category: 12 – CHEMISTRY

NAG 5 10513 WASHINGTON UNIV – ST. LOUIS 6299
 ISOTOPIC STRUCTURES & FINE-SCALE CHRONOLOGY IN PLANETARY
 MATERIALS
 03/05/2001 – 03/31/2002 FY01: \$114,000 Total: \$114,000
Prin. Invest.: F PODOSEK
Tech. Officer: GSFC/J BOYCE
CASE Category: 12 – CHEMISTRY

NAG 5 10533 WASHINGTON UNIV – ST. LOUIS 6300
 MAJOR EQUIPMENT: GAMMA-RAY DETECTORS FOR NEUTRON ACTIVATION
 ANALYSIS ASSOCIATED WITH PROPOSAL "GE
 04/06/2001 – 02/28/2002 FY01: \$44,200 Total: \$44,200
Prin. Invest.: L HASKIN
Tech. Officer: GSFC/J BOYCE
CASE Category: 12 – CHEMISTRY

NAG 5 10553 WASHINGTON UNIV – ST. LOUIS 6301
 KINETICS OF THERMOCHEMICAL GAS-SOLID REACTIONS IMPORTANT FOR
 VOLATILE RETENTION IN THE SOLAR NEBULA
 03/09/2001 – 03/14/2002 FY01: \$60,000 Total: \$60,000
Prin. Invest.: B FEGLEY
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 10703 WASHINGTON UNIV – ST. LOUIS 6302
 ENHANCED LASER RAMAN SPECTROSCOPY FOR PLANETARY ON -
 SURFACE MINERALOGY, PETROLOGY, AND DETECTION OF
 04/09/2001 – 03/31/2002 FY01: \$186,674 Total: \$186,674
Prin. Invest.: L HASKIN
Tech. Officer: GSFC/B BETTS
CASE Category: 11 – ASTRONOMY

NAG 5 10802 WASHINGTON UNIV – ST. LOUIS 6303
 CONCEPT STUDY FOR THE "THE HEAVY NUCLEI EXPLORER" (HNX)
 MISSION AO-99-OSS-05
 04/30/2001 – 04/30/2002 FY01: \$127,300 Total: \$127,300
Prin. Invest.: W BINNS
Tech. Officer: GSFC/J R BYRD
CASE Category: 11 – ASTRONOMY

NAG 5 11037 WASHINGTON UNIV – ST. LOUIS 6304
 KINETICS OF THE THERMOCHEMICAL REACTIONS IMPORTANT IN THE
 VENUS ATMOSPHERIC SULFUR CYCLE
 06/12/2001 – 06/14/2002 FY01: \$93,000 Total: \$93,000
Prin. Invest.: B FEGLEY
Tech. Officer: GSFC/D BOGAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 11050 WASHINGTON UNIV – ST. LOUIS 6305
 CHEMICAL WEATHERING REACTIONS ON VENUS
 06/18/2001 – 05/31/2002 FY01: \$60,000 Total: \$60,000
Prin. Invest.: B FEGLEY, JR
Tech. Officer: GSFC/D BOGAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 11202 WASHINGTON UNIV – ST. LOUIS 6306
 INTEGRATED GEODYNAMICAL AND HYDROGEOLOGICAL HISTORY OF
 MARS
 08/14/2001 – 08/14/2004 FY01: \$65,000 Total: \$65,000
Prin. Invest.: R J PHILLIPS
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 – ASTRONOMY

NAG 8 1682 **WASHINGTON UNIV – ST. LOUIS** **6307**
 "STUDIES OF NUCLEATION AND GROWTH, SPECIFIC HEAT AND VISCOSITY
 OF UNDER COOLED MELTS OF ALLOYS"
 05/01/2000 – 11/30/2003 FY01: \$159,600 Total: \$239,579
Prin. Invest.: K F KELTON
Tech. Officer: MSFC/P DOTY
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 9 1006 **WASHINGTON UNIV – ST. LOUIS** **6308**
 GENESIS: NOBLE GAS MEASUREMENTS PHASE B
 04/29/1998 – 03/31/2002 FY01: \$61,800 Total: \$244,900
Prin. Invest.: C M HOHENBERG
Tech. Officer: JSC/K E CYR
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 9 1010 **WASHINGTON UNIV – ST. LOUIS** **6309**
 GENESIS DISCOVERY MISSION
 05/05/1998 – 08/08/2001 FY01: \$0 Total: \$56,600
Prin. Invest.: F A PODOSEK
Tech. Officer: JSC/E K STANSBERY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAS 3 00094 **WASHINGTON UNIV – ST. LOUIS** **6310**
 NRA CONTRACT FOR "SEARCH FOR EFFECTS OF ELECTROSTA TIC
 POTENTIAL ON CLOCKS IN THE FRAME OF REFERENCE"
 12/27/1999 – 12/26/2000 FY01: \$0 Total: \$99,985
Prin. Invest.: M S CONRAD, H I RINGERMACHER
Tech. Officer: GRC/M MILLIS
CASE Category: 13 – PHYSICS

NCC 3 697 **WASHINGTON UNIV – ST. LOUIS** **6311**
 FLAE DESIGN – A NOVAL APPROACH TO CLEAN, EFFICIENT DIFUSSION
 FLAMES
 03/26/1999 – 01/13/2003 FY01: \$60,300 Total: \$186,032
Prin. Invest.: R L AXELBAUM
Tech. Officer: GRC/D L URBAN
CASE Category: 49 – ENGINEERING, OTHER

NCC 3 777 **WASHINGTON UNIV – ST. LOUIS** **6312**
 OPTIMIZING THE CORBA COMPONENT MODEL FOR HIGH-PERF ORMANCE
 AND REAL-TIME APPLICATIONS
 02/24/2000 – 01/20/2003 FY01: \$40,842 Total: \$100,842
Prin. Invest.: D L LEVINE
Tech. Officer: GRC/R W CLAUS
CASE Category: 41 – AERONAUTICAL ENGR

NCC 8 85 **WASHINGTON UNIV – ST. LOUIS** **6313**
 COMPOSITION EFFECTS ON PHASE FORMATION & STABILITY
 04/22/1996 – 04/21/2001 FY01: \$0 Total: \$467,400
Prin. Invest.: K F KELTON
Tech. Officer: MSFC/P DOTY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NCC 8 154 **WASHINGTON UNIV – ST. LOUIS** **6314**
 COOPERATIVE AGREEMENT ENTITLED "IMAGING CALORIMETER FOR
 ACCESS (ICA)"
 07/10/1998 – 07/09/2001 FY01: \$0 Total: \$119,600
Prin. Invest.: P L HINK, M H ISRAEL, R W BINNS
Tech. Officer: MSFC/M CHRISTI, MSFC/M J CHRISTL
CASE Category: 11 – ASTRONOMY

NGT 1 52197 **WASHINGTON UNIV – ST. LOUIS** **6315**
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
 06/09/1998 – 06/30/2000 FY01: \$0 Total: \$44,000
Prin. Invest.: K R WATERS
Tech. Officer: LARC/P H JOHNSTON
CASE Category: 13 – PHYSICS

NGT 5 50023 **WASHINGTON UNIV – ST. LOUIS** **6316**
 TIGER: A COSMIC RAY DETECTOR USED TO STUDY THE ABU ELEMENTS
 08/04/1997 – 06/30/2000 FY01: -\$250 Total: \$65,750
Prin. Invest.: SPOSATO
Tech. Officer: GSFC/A NURRIDIN
CASE Category: 41 – AERONAUTICAL ENGR

NGT 5 50030 **WASHINGTON UNIV – ST. LOUIS** **6317**
 COMPOSITIONAL EFFECTS ON TIME DEPENDENT NUCLEATION
 08/04/1997 – 06/30/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: K KELTON/CROAT
Tech. Officer: GSFC/A NURRIDDI
CASE Category: 11 – ASTRONOMY

NGT 5 50063 **WASHINGTON UNIV – ST. LOUIS** **6318**
 TECTONIC PROCESSES ON ICY SATELLITES
 08/15/1997 – 06/30/2000 FY01: -\$1,246 Total: \$64,754
Prin. Invest.: W B MCKINNON/DOMBAR
Tech. Officer: GSFC/A NURRIDIN
CASE Category: 41 – AERONAUTICAL ENGR

NGT 5 50170 **WASHINGTON UNIV – ST. LOUIS** **6319**
 GRADUATE STUDENT RESEARCH IN X-RAY ASTRONOMY
 05/22/1998 – 06/30/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: P L HINK
Tech. Officer: GSFC/K E BLANDING
CASE Category: 13 – PHYSICS

NGT 5 50240 **WASHINGTON UNIV – ST. LOUIS** **6320**
 GRADUATE STUDENT RSCH IN COSMIC RAY ASTROPHYSICS
 06/03/1999 – 06/30/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: M ISRAEL
Tech. Officer: GSFC/L SMITH
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 50348 **WASHINGTON UNIV – ST. LOUIS** **6321**
 HYDROTHERMAL ECOSYSTEMS AS ANALOGS IN THE STUDY OF ASTRO-
 BIOLOGY & EARLY LIFE ON EARTH/STUDENT: D. ME
 05/07/2001 – 06/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: E SHOCK
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 8 1851 **WILLIAM JEWELL COLLEGE** **6322**
 MOLECULAR PROBE FLUORESCENCE MONITORING OF POLYMER ZATION
 09/27/2001 – 08/31/2002 FY01: \$27,957 Total: \$27,957
Prin. Invest.: P BUNTON
Tech. Officer: MSFC/M P BODIFORD
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

MONTANA

NAG 2 1323 MONTANA STATE UNIV 6323
 SPATIO-SPECTRAL HOLOGRAPHY FOR HIGH BANDWIDTH CORR ELATORS
 04/29/1999 - 04/30/2002 FY01: \$1,750,000 Total: \$5,096,000
Prin. Invest.: A E CRAIG
Tech. Officer: ARC/W F BROOKS, ARC/D KOGA
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 5 3652 MONTANA STATE UNIV 6324
 MOLECULAR AND GEOCHEMICAL ANALYSIS OF HOT SPRING C ROFLEXUS
 MATS AS STROMATOLITE ANALOGS
 03/25/1997 - 06/30/2000 FY01: \$0 Total: \$274,062
Prin. Invest.: M G WARD
Tech. Officer: GSFC/M MEYER
CASE Category: 12 - CHEMISTRY

NAG 5 4576 MONTANA STATE UNIV 6325
 CENTER FOR EDUCATIONAL RESOURCES
 05/13/1997 - 05/31/2001 FY01: \$0 Total: \$999,975
Prin. Invest.: G TUTHILL
Tech. Officer: GSFC/M V PHELPS
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 6005 MONTANA STATE UNIV 6326
 CAUSES AND CONSEQUENCES OF LAND-COVER IN A GREATER
 ASSESSMENT, MONITORING AND OUTREACH
 09/11/1997 - 07/14/2001 FY01: \$0 Total: \$565,010
Prin. Invest.: A HASEN
Tech. Officer: GSFC/A C JANETOS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6110 MONTANA STATE UNIV 6327
 MAGNETIC HELICITY AND THE SOLAR DYNAMO
 07/28/1997 - 07/31/2002 FY01: \$316,052 Total: \$975,776
Prin. Invest.: D CANFIELD
Tech. Officer: GSFC/W WAGNER
CASE Category: 11 - ASTRONOMY

NAG 5 8807 MONTANA STATE UNIV 6328
 CENTER FOR STUDYING LIFE IN EXTREME ENVIRONMENTS
 09/03/1999 - 08/31/2004 FY01: \$5,129,000 Total: \$7,002,000
Prin. Invest.: T R MCDERMOTT
Tech. Officer: GSFC/M MEYER
CASE Category: 11 - ASTRONOMY

NAG 5 8824 MONTANA STATE UNIV 6329
 MOLECULAR AND GEOCHEMICAL ANALYSIS OF HOT SPRING CYANOBAC-
 TERIAL & CHLOROFLEXUS MATS AS STROMATOLITE
 09/22/1999 - 10/31/2001 FY01: \$0 Total: \$194,200
Prin. Invest.: D M WARD
Tech. Officer: GSFC/M MEYER
CASE Category: 11 - ASTRONOMY

NAG 5 9300 MONTANA STATE UNIV 6330
 MONITORING FOREST RESPONSE TO PAST & FUTURE GLOBAL CHANGE IN
 GREATER YELLOWSTONE
 04/07/2000 - 04/30/2002 FY01: \$120,886 Total: \$207,168
Prin. Invest.: A HANSEN
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9806 MONTANA STATE UNIV 6331
 CHANGING LANDSCAPED IN RURAL AMERICA
 07/13/2000 - 08/31/2001 FY01: \$0 Total: \$15,000
Prin. Invest.: A HANSEN
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10489 MONTANA STATE UNIV 6332
 THE X-RAY BRIGHT POINT: A CASE STUDY IN RECONNECTI ON
 03/07/2001 - 02/28/2002 FY01: \$91,029 Total: \$91,029
Prin. Invest.: D LONGCOPE
Tech. Officer: GSFC/W WALTER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10997 MONTANA STATE UNIV 6333
 MOSES: A SLITLESS MULTI-ORDER SOLAR EXTREME ULTRA VIOLET
 SPECTROGRAPH FOR FAST IMAGING SPECTROSCOPY
 06/08/2001 - 05/31/2002 FY01: \$248,122 Total: \$248,122
Prin. Invest.: C C KANKELBORG
Tech. Officer: GSFC/W J WAGNER
CASE Category: 13 - PHYSICS

NAG 5 11158 MONTANA STATE UNIV 6334
 LAND USE LAND CHANGE AROUND PROTECTED AREAS IN LCLUC SITES:
 SYNTHESIS OF RATES, CONSEQUENCES FOR
 08/01/2001 - 08/14/2004 FY01: \$61,425 Total: \$61,425
Prin. Invest.: A HANSEN
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 8 1399 MONTANA STATE UNIV 6335
 LARGE SCALE ORGANIZATION OF ACTIVE REGION MAGNETIC FIELDS
 08/11/1997 - 08/10/2002 FY01: \$0 Total: \$184,330
Prin. Invest.: R C CANFIELD
Tech. Officer: MSFC/M J HAGYARD, MSFC/G A GARY
CASE Category: 11 - ASTRONOMY

NAG 9 1082 MONTANA STATE UNIV 6336
 RAPID BACTERIAL TESTING FOR SPACECRAFT WATER
 03/03/1999 - 03/31/2002 FY01: \$69,483 Total: \$286,278
Prin. Invest.: B H PYLE
Tech. Officer: JPL/D JAN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 2 1073 MONTANA STATE UNIV 6337
 COMPARATIVE STUDIES OF MICROBIAL MATS: COMMUNITY COMPOSI-
 TION, PHYSIOLOGICAL & ORGANIC GEOCHEMICAL P
 12/08/1998 - 12/31/2002 FY01: \$54,441 Total: \$155,454
Prin. Invest.: D M WARD
Prin. Invest.: NONE
Tech. Officer: ARC/D J DES MARAIS, ARC/B BEBOUT
CASE Category: 54 - ENVIRONMENTALBIOLOGY

NCC 2 1143 MONTANA STATE UNIV 6338
 BACTERIAL PHYSIOLOGY & VIRULENCE ON EARTH & IN MIC ROGRAVITY
 09/19/1999 - 08/31/2002 FY01: \$135,620 Total: \$325,621
Prin. Invest.: B H PYLE
Tech. Officer: ARC/M F VASQUES, ARC/P D SAVAGE
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NCC 2 1181 **MONTANA STATE UNIV** **6339**
 STUDENT-MENTOR PROJECTS IN SUPPORT OF NASA SHARP PROGRAM
 EXPERIMENTS
 05/23/2000 - 12/31/2001 FY01: \$0 Total: \$91,357
Prin. Invest.: D CAIRNS
Tech. Officer: ARC/P KOLODZIEJ, ARC/D J RASKY
CASE Category: 41 - AERONAUTICAL ENGR

NCC 2 5277 **MONTANA STATE UNIV** **6340**
 MICROBIOLOGICAL SENSING SYSTEM FOR A EUROPA PROBE APPLICA-
 TION
 07/21/1998 - 09/30/1999 FY01: \$0 Total: \$10,000
Prin. Invest.: B H PYLE, G MCFETERS
Tech. Officer: ARC/M T FLYNN
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NCC 2 5437 **MONTANA STATE UNIV** **6341**
 A MINIATURE RAMAN SPECTROMETER FOR FIELD EVALUATIO N IN
 ANTARCTICA AS AN ANALOGUE OF PUTATIVE MARTIA
 06/25/2001 - 05/31/2002 FY01: \$72,607 Total: \$72,607
Prin. Invest.: D L DICKENSHEETS
Tech. Officer: ARC/R A GRYMES, ARC/W W DOLCI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 2 5445 **MONTANA STATE UNIV** **6342**
 EFFECTS OF STAND-REPLACING FIRE ON MYCORRHIZAL COM MUNITIES
 07/16/2001 - 06/30/2002 FY01: \$94,660 Total: \$94,660
Prin. Invest.: J HENSON
Tech. Officer: ARC/K CULLINGS, ARC/M H NEW
CASE Category: 54 - ENVIRONMENTAL BIOLOGY

NCC 5 240 **MONTANA STATE UNIV** **6343**
 MONTANA EPSCOR PROGRAM
 09/12/1997 - 02/28/2002 FY01: \$0 Total: \$1,800,000
Prin. Invest.: W HISCOCK
Tech. Officer: GSFC/D DETROYE
CASE Category: 11 - ASTRONOMY

NCC 5 410 **MONTANA STATE UNIV** **6344**
 NASA EPSCOR: PREPARATORY GRANT PROPOSAL
 05/18/1999 - 05/31/2002 FY01: \$0 Total: \$450,000
Prin. Invest.: W HISCOCK
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 579 **MONTANA STATE UNIV** **6345**
 MONTANA NASA EPSCOR PROGRAM
 08/17/2001 - 07/31/2004 FY01: \$463,300 Total: \$463,300
Prin. Invest.: W HISCOCK
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 40041 **MONTANA STATE UNIV** **6346**
 NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA M
 06/03/1991 - 02/29/2000 FY01: -\$50,967 Total: \$953,533
Prin. Invest.: W A HISCOCK
Tech. Officer: HQ/E T SCHWARTZ
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 1 01012 **MONTANA STATE UNIV** **6347**
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) MY 1/3
 06/15/2001 - 06/30/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: V H SCHMIDT
Tech. Officer: LARC/J HARRISON
CASE Category: 41 - AERONAUTICAL ENGR

NGT 5 40036 **MONTANA STATE UNIV** **6348**
 TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE
 AND FELLOWSHIP PROGRAM.
 01/31/1997 - 02/28/2001 FY01: -\$80,617 Total: \$1,330,633
Prin. Invest.: W A HISCOCK
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40092 **MONTANA STATE UNIV** **6349**
 MONTANA SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
 02/28/2001 - 02/28/2002 FY01: \$555,617 Total: \$555,617
Prin. Invest.: W HISCOCK
Tech. Officer: GSFC/D D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50297 **MONTANA STATE UNIV** **6350**
 ECOLOGY & NITROGEN BIOGEOCHEMISTRY OF ANATARCTIC LAKE ICE/
 STUDENT: AARON D. HALL
 06/27/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: J C PRISCU
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9139 **MONTANA TECH OF THE UNIV OF MONTANA** **6351**
 STEP CAREERS IN RESEARCH EXPLORATION PROGRAM
 02/29/2000 - 02/28/2003 FY01: \$15,695 Total: \$31,730
Prin. Invest.: T MOON
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9102 **SALISH KOOTENAI COLLEGE** **6352**
 EARTH SYSTEM SCIENCE STUDENT RESEARCH EXPERIENCES AT SALISH
 KOOTENAI COLLEGE
 03/02/2000 - 01/31/2002 FY01: \$105,595 Total: \$213,103
Prin. Invest.: T S OLSON
Tech. Officer: GSFC/N K HAZENIE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9147 **SALISH KOOTENAI COLLEGE** **6353**
 NORTHERN ROCKY MOUNTAIN TRIBAL PATHWAY TO ACADEMIC EXCEL-
 LENCE PROGRAM
 03/03/2000 - 03/14/2002 FY01: \$100,000 Total: \$200,000
Prin. Invest.: J M GOBERT
Tech. Officer: GSFC/M STOUTSENBERGER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9368 **SALISH KOOTENAI COLLEGE** **6354**
 NASA NATIVE EARTH SYSTEMS SCIENCE CURRICULUM PROJECT (NESCP)
 04/03/2000 - 03/31/2002 FY01: \$154,129 Total: \$308,847
Prin. Invest.: J M GOBERT
Tech. Officer: GSFC/B MEESON
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9541 SALISH KOOTENAI COLLEGE 6355
 RELATIVISTIC DISSIPATIVE FLUID THEORIES OF NEUTRON STARS
 06/08/2000 – 06/14/2001 FY01: \$0 Total: \$48,051
Prin. Invest.: T OLSON
Tech. Officer: GSFC/D MENCHAN
CASE Category: 21 – MATHEMATICS

NAG 5 10144 SALISH KOOTENAI COLLEGE 6356
 ASTRONOMY & ASTROPHYSICS COURSE DEVELOPMENT AT SAL ISH
 KOOTENAI COLLEGE
 12/11/2000 – 12/31/2001 FY01: \$12,852 Total: \$12,852
Prin. Invest.: T S OLSON, NONE
Tech. Officer: GSFC/P SAKIMOTO
CASE Category: 44 – CIVIL ENGR

NAG 5 4923 UNIV OF MONTANA 6357
 ASSIMILATION OF SAR DERIVED PARAMETER MAPS INTO BI OVER BOREAS
 STUDY AREA
 06/23/1997 – 05/31/2000 FY01: -\$1 Total: \$191,316
Prin. Invest.: S W RUNNING
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6719 UNIV OF MONTANA 6358
 RADAR BASED MEASURE OF INTERANNUAL VEGETATION PHEN OLOGY
 FOR MONITORING GLOBAL CHANGE RESPONSES OF
 12/10/1997 – 08/31/2000 FY01: -\$43 Total: \$205,435
Prin. Invest.: S RUNNING
Tech. Officer: GSFC/D WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 8599 UNIV OF MONTANA 6359
 THE IMPACT OF VEGETATION CHANGES IN THE SAHEL ON REGIONAL
 SCALE HYDROLOGY
 06/21/1999 – 06/30/2002 FY01: \$48,860 Total: \$140,734
Prin. Invest.: S W RUNNING
Tech. Officer: GSFC/E G ENGMAN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 9062 UNIV OF MONTANA 6360
 EARTH SCIENCE ENTERPRISE RESEARCH PROGRAM
 02/15/2000 – 02/14/2003 FY01: \$99,675 Total: \$199,675
Prin. Invest.: J R KUGLIN
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 9332 UNIV OF MONTANA 6361
 DEVELOPMENT SPRAWL IMPACTS ON THE TERRESTRIAL CARBON
 DYNAMICS OF THE UNITED STATES
 03/23/2000 – 04/30/2003 FY01: \$48,044 Total: \$77,873
Prin. Invest.: R NEMANI
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 9333 UNIV OF MONTANA 6362
 MONITORING BOREAL LANDCOVER AND ECOSYSTEM DYNAMICS AT
 REGIONAL SCALES USING INTEGRATED SPACEBORNE
 03/23/2000 – 04/30/2003 FY01: \$11,333 Total: \$34,000
Prin. Invest.: J KIMBALL
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 11256 UNIV OF MONTANA 6363
 A SATELLITE MICROWAVE REMOTE SENSING MEASURE OF HI GH
 LATITUDE GROWING SEASONS FOR IMPROVED ASSESS
 08/16/2001 – 08/31/2004 FY01: \$165,352 Total: \$165,352
Prin. Invest.: S RUNNING
Tech. Officer: GSFC/D WICKLAND
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 9 1112 UNIV OF MONTANA 6364
 INST FOR THE STUDY OF BIOMAKERS IN ASTROMATERIALS
 05/11/1999 – 05/13/2002 FY01: \$14,353 Total: \$38,353
Prin. Invest.: N C HINMAN
Tech. Officer: JSC/E K GIBSON
CASE Category: 32 – GEOLOGICAL SCIENCE

NAS 5 31368 UNIV OF MONTANA 6365
 EOS MODIS INVESTIGATION FROM DR. STEVE RUNNING
 01/07/1992 – 12/14/2001 FY01: \$421,000 Total: \$4,369,500
Prin. Invest.: S W RUNNING
Tech. Officer: GSFC/H OSEROFF
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 2 1263 UNIV OF MONTANA 6366
 INTELLIGENT PARAMETERIZATION & REAL-TIME EXECUTION OF
 ECOSYSTEM MODELS
 05/07/2001 – 10/31/2001 FY01: \$100,849 Total: \$100,849
Prin. Invest.: R NEMANI
Tech. Officer: ARC/K P GOODEN, ARC/M A SCHWABACHER
CASE Category: 22 – COMPUTER SCIENCE

NCC 2 5397 UNIV OF MONTANA 6367
 AUTOMATED TESTING OF MATRIX MODELS
 09/07/2000 – 02/28/2001 FY01: \$0 Total: \$12,162
Prin. Invest.: J HENRY
Tech. Officer: ARC/A PATTERSON-HINE, ARC/S LAU
CASE Category: 22 – COMPUTER SCIENCE

NCC 5 382 UNIV OF MONTANA 6368
 INTERNATIONAL EOS NATURAL RESOURCE TRAINING CENTER
 02/19/1999 – 02/28/2002 FY01: \$2,993,400 Total: \$8,174,400
Prin. Invest.: S W RUNNING
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 30395 UNIV OF MONTANA 6369
 FORECASTING THE EFFECTS OF CLIMATE CHANGE ON EMERG ING
 INFECTIOUS DISEASE: A HANTAVIRUS MODEL
 08/14/2001 – 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: S RUNNING
Tech. Officer: GSFC/M WEI
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 50225 UNIV OF MONTANA 6370
 MODELING NOVEL FT-IR SPECTROSCOPIC MEASUREMENTS OF OXYGE-
 NATEDHYDROCARBON LEVELS FROM BIO
 09/29/1998 – 02/28/2002 FY01: \$0 Total: \$66,000
Prin. Invest.: R J FIELD
Tech. Officer: GSFC/M Y WEI
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 50329 UNIV OF MONTANA 6371
 BIOGEOCHEMISTRY OF RECREATIONAL GRASSLANDS STUDENT: CRIS-
 TINA MILESI
 08/17/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: S RUNNING
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NEBRASKA

NAG 2 1353 CREIGHTON UNIV 6372
 EFFECTS OF GRAVITY ON VESTIBULAR DEVELOPMENT IN MI CE
 07/22/1999 - 07/31/2002 FY01: \$195,093 Total: \$484,874
Prin. Invest.: B FRITZSCH
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 1 01087 UNIV OF NEBRASKA - LINCOLN 6373
 OPTIMAL EXPERIMENTAL DESIGN FOR THERMAL CHARACTER-
 IZATION OF FUNCTIONALLY GRADED MATERIALS
 05/30/2001 - 09/30/2002 FY01: \$29,437 Total: \$29,437
Prin. Invest.: K D COLE
Tech. Officer: LARC/M L BLOXXER
CASE Category: 45 - ELECTRICAL ENGR

NAG 3 2219 UNIV OF NEBRASKA - LINCOLN 6374
 ATOMIC OXYGEN ULTRAVIOLET, AND THERMAL CYCLING EFF ECTS ON
 SPACE MATERIALS
 12/28/1998 - 10/31/2001 FY01: \$55,001 Total: \$145,001
Prin. Invest.: J A WOOLLAM
Tech. Officer: GRC/D A JAWORSKE
CASE Category: 13 - PHYSICS

NAG 5 3442 UNIV OF NEBRASKA - LINCOLN 6375
 CHARACTERIZATION OF LANDSAT-7 GEOMETRY AND RADIOME TRY FOR
 LAND COVER ANALYSES
 10/07/1996 - 12/31/2000 FY01: \$0 Total: \$93,293
Prin. Invest.: J W MERCHANT
Tech. Officer: GSFC/D L WILLIAMS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 4217 UNIV OF NEBRASKA - LINCOLN 6376
 CONSORTIUM FOR THE APPLICATION OF SPACE DATA TO ED
 03/15/1997 - 12/31/2000 FY01: \$0 Total: \$1,449,859
Prin. Invest.: D RUNDQUIST
Tech. Officer: GSFC/D L KALE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 6506 UNIV OF NEBRASKA - LINCOLN 6377
 MRK 42 AND MRK 957: TWO EXTREME NARROW-LINE STRONG FE II EMIT-
 TING QUASARS - ASCA PROPOSAL AO5
 11/17/1997 - 10/31/2001 FY01: \$0 Total: \$17,800
Prin. Invest.: M GASKELL
Prin. Invest.: NONE
Tech. Officer: GSFC/N WHITE
CASE Category: 11 - ASTRONOMY

NAG 5 6990 UNIV OF NEBRASKA - LINCOLN 6378
 CHARACTERIZATION AND IMPROVEMENT OF EOS LAND PRODU CTS
 USING MEASUREMENTS AT AMERIFLUX GRASSLAND AND
 02/25/1998 - 02/28/2002 FY01: \$64,380 Total: \$505,000
Prin. Invest.: E WALTER-SHEA
Tech. Officer: GSFC/D C WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8677 UNIV OF NEBRASKA - LINCOLN 6379
 "COMPRESSION FOR LAND USE DATA". GSFC CONTROL NO. 5-3491.
 FUNDS FOR UNSOLICITED PROPOSAL W/UNIV NE
 07/09/1999 - 09/30/2001 FY01: \$0 Total: \$50,131
Prin. Invest.: K SAYOOD
Tech. Officer: GSFC/P YEH
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 9834 UNIV OF NEBRASKA - LINCOLN 6380
 ROBUST COMPRESSION FOR LAND USE DATA
 07/28/2000 - 09/30/2002 FY01: \$0 Total: \$60,546
Prin. Invest.: K SAYOOD
Tech. Officer: GSFC/P YEH
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 10408 UNIV OF NEBRASKA - LINCOLN 6381
 "CONTEXT BASED COMPRESSION SCHEME"
 04/05/2001 - 07/14/2002 FY01: \$50,000 Total: \$50,000
Prin. Invest.: K SAYOOD
Tech. Officer: GSFC/P YEH
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 11147 UNIV OF NEBRASKA - LINCOLN 6382
 CONSEQUENCES OF INSTAL CHANGE: LAND-COVER DYNAMICS IN
 KAZAKHSTAN 1960-2000
 07/31/2001 - 08/14/2003 FY01: \$89,949 Total: \$89,949
Prin. Invest.: A GITELSON
Tech. Officer: GSFC/G GUTMAN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 9 1137 UNIV OF NEBRASKA - LINCOLN 6383
 A PROTOTYPE MARS SURFACE MOBILITY VEHICLE
 08/04/1999 - 08/31/2000 FY01: -\$5,000 Total: \$0
Prin. Invest.: S FARRITOR
Tech. Officer: JSC/J JOCHIM
CASE Category: 49 - ENGINEERING, OTHER

NAG 9 1310 UNIV OF NEBRASKA - LINCOLN 6384
 USE OF FEMTOSECOND LASERS IN THE CURATION & ALLOCATION OD
 SAMPLES COLLECTED BY UPCOMING PLANET
 06/06/2001 - 06/08/2004 FY01: \$34,995 Total: \$34,995
Prin. Invest.: D R ALEXANDER
Tech. Officer: JSC/F HORZZ, JSC/J JONES
CASE Category: 32 - GEOLOGICAL SCIENCE

NCC 2 5304 UNIV OF NEBRASKA - LINCOLN 6385
 TRANSPORT IN QUANTUM STRUCUTRES: QUASI TWO DIMENS IONAL
 DEVICES
 01/11/1999 - 12/31/2001 FY01: \$0 Total: \$126,973
Prin. Invest.: S BANDYOPADHYAY
Tech. Officer: ARC/M MEYYAPPAN
CASE Category: 13 - PHYSICS

NCC 5 169 UNIV OF NEBRASKA - LINCOLN 6386
 THE NEBRASKA INITIATIVE FOR AEROSPACE RESEARCH AND DEVELOPMENT
 12/05/1996 - 11/14/2001 FY01: \$500,000 Total: \$2,500,000
Prin. Invest.: B D BOWEN
Tech. Officer: GSFC/D D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 430 UNIV OF NEBRASKA - LINCOLN 6387
 "AMERICA'S FARM" A PROTOTYPE FOR OTHER NATIONAL CYBER-EDUCATIONAL SITES IN RESPONSE TO NASA COOPERATION
 09/20/1999 - 09/30/2002 FY01: \$220,740 Total: \$518,228
Prin. Invest.: D C RUNDQUIST
Tech. Officer: GSFC/R E GABRYS
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC13 98003 UNIV OF NEBRASKA - LINCOLN 6388
 AN INITIATIVE TO CREATE AN AFFILIATED RESEARCH CENTER PROGRAM
 08/17/1998 - 03/31/2002 FY01: \$272,792 Total: \$622,399
Prin. Invest.: RUNDQUIST
Tech. Officer: SSC/A PEEK
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30175 UNIV OF NEBRASKA - LINCOLN 6389
 INTERANNUAL VARIABILITY IN SNOW MELT & ASSOCIATED ATMOSPHERIC CONDITIONS OVER THE MARINE CRYOSPHERE
 01/13/1999 - 12/31/2000 FY01: \$0 Total: \$44,000
Prin. Invest.: M ANDERSON
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30358 UNIV OF NEBRASKA - LINCOLN 6390
 LANDFORM EVOLUTION OF THE LOWER MISSISSIPPI RIVER VALLEY IN RESPONSE TO DEGLACIATION/STUDENT: TAMMY
 08/23/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: M BLUM
Tech. Officer: GSFC/M Y WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 401 UNIV OF NEBRASKA-OMAHA 6391
 NASA EPSCOR: PREPARATORY GRANT PROPOSAL
 05/13/1999 - 09/30/2001 FY01: \$0 Total: \$450,000
Prin. Invest.: B BROWN
Tech. Officer: HQ/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 572 UNIV OF NEBRASKA-OMAHA 6392
 NEBRASKA NASA EPSCOR PROGRAM
 07/20/2001 - 07/31/2002 FY01: \$700,000 Total: \$700,000
Prin. Invest.: B D BOWEN
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40037 UNIV OF NEBRASKA-OMAHA 6393
 TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE AND FELLOWSHIP PROGRAM.
 02/13/1997 - 02/28/2001 FY01: \$0 Total: \$1,040,150
Prin. Invest.: B D BOWEN
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40104 UNIV OF NEBRASKA-OMAHA 6394
 NEBRASKA SPACE GRANT COLLEGE & FELLOWSHIP PROGRAM
 03/01/2001 - 02/28/2002 FY01: \$277,650 Total: \$277,650
Prin. Invest.: B D BOWEN
Tech. Officer: GSFC/D D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NEVADA

NAG 1 2046 UNIV. OF NEVADA - DESERT RES. INST - RENO 6395
 MICROPHYSICS AND RADIATIVE PROPERTIES OF CIRRUS: INSTRUMENTATION AND ANALYSIS/PREVIOUS # NAG-1-1707
 04/01/1998 - 05/03/2002 FY01: \$0 Total: \$212,000
Prin. Invest.: J HALLETT
Tech. Officer: LARC/D S MCDUGAL, LARC/J RAPER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 2183 UNIV. OF NEVADA - DESERT RES. INST - RENO 6396
 CLOUD CONDENSATION NUCLEI FIRE III MY 1/2
 04/19/1999 - 06/03/2002 FY01: \$21,000 Total: \$100,000
Prin. Invest.: J G HUDSON
Tech. Officer: LARC/V E DELNORE, LARC/J RAPER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7870 UNIV. OF NEVADA - DESERT RES. INST - RENO 6397
 INTEGRATING MODELING AND REMOTE SENSING FOR MONITORING POTENTIAL RESPONSES TO CLIMATE CHANGE
 01/20/1999 - 12/31/2001 FY01: \$62,310 Total: \$158,378
Prin. Invest.: G L DANA
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7973 UNIV. OF NEVADA - DESERT RES. INST - RENO 6398
 IN SITU MICROPHYSICAL OBSERVATIONS IN SUPPORT OF THE TRMM/KWAJEX FIELD CAMPAIGN
 01/03/1999 - 12/31/2001 FY01: \$92,070 Total: \$349,841
Prin. Invest.: J HALALETT
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9716 UNIV. OF NEVADA - DESERT RES. INST - RENO 6399
 ANALYSIS AND INTEGRATION OF IN SITU MICROPHYSICAL OBSERVATIONS FROM THE TRMM/KWAJEX FIELD CAMPAIGN
 06/22/2000 - 06/14/2002 FY01: \$153,000 Total: \$305,764
Prin. Invest.: D KINGSMILL
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 10445 UNIV. OF NEVADA - DESERT RES. INST - RENO 6400
 AN AQUEOUS GEOCHEMICAL MODEL FOR COLD PLANETS
 02/20/2001 - 02/28/2002 FY01: \$65,000 Total: \$65,000
Prin. Invest.: G M MARION
Tech. Officer: GSFC/D SENSKE
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 8 1718 UNIV. OF NEVADA - DESERT RES. INST - RENO 6401
 RESEARCH ENTITLED, "SHEAR FLOW STABILIZED LASER- IGNITED
 Z-PINCH"
 04/27/2000 - 04/26/2003 FY01: \$37,000 Total: \$67,000
Prin. Invest.: F WINTERBERG
Tech. Officer: MSFC/F THIO
CASE Category: 13 - PHYSICS

NCC 5 486 UNIV. OF NEVADA - DESERT RES. INST - RENO 6402
 HYPERSPECTRAL MONITORING OF INVASIVE NON-NATIVE PLANT SPECIES
 04/06/2000 - 12/31/2001 FY01: \$64,689 Total: \$110,966
Prin. Invest.: K C MCGWIRE
Tech. Officer: GSFC/S G UNGAR
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 40038 UNIV. OF NEVADA - DESERT RES. INST - RENO 6403
 NATIONAL SPACE GRANT COLLEGE & FELLOWSHIP PROGRAM
 01/24/1997 - 02/28/2001 FY01: \$0 Total: \$801,125
Prin. Invest.: J V TARANIK
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 3994 UNIV. OF NEVADA - LAS VEGAS 6404
 EFFICIENT TRANSMISSION AND MANIPULATION OF SCIENTI
 03/06/1997 - 02/28/2001 FY01: \$0 Total: \$261,642
Prin. Invest.: D LATIFI
Tech. Officer: GSFC/J BREDEKAMP
CASE Category: 22 - COMPUTER SCIENCE

NAG 5 6727 UNIV. OF NEVADA - LAS VEGAS 6405
 LABORATORY STUDIES OF THERMAL ENERGY CHARGE TRANSFER OF
 CARBON, IRON, SULPHUR, AND NITROGEN IONS IN
 12/11/1997 - 12/31/2001 FY01: \$100,000 Total: \$310,200
Prin. Invest.: V H KWONG
Tech. Officer: GSFC/H HASAN
CASE Category: 11 - ASTRONOMY

NAG 5 9489 UNIV. OF NEVADA - LAS VEGAS 6406
 DEVELOPMENT OF THE CONTENT-BASED IMAGE QUERYING TO OLS:
 TOWARD ADVANCED DATABASES FOR ASTRONOMICAL
 04/17/2000 - 04/14/2001 FY01: \$0 Total: \$80,000
Prin. Invest.: S LATIFI
Tech. Officer: GSFC/J BREDEKAMP
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAS 5 31231 UNIV. OF NEVADA - LAS VEGAS 6407
 STIS CO-INVESTIGATOR SUPPORT
 08/30/1991 - 09/30/2002 FY01: \$109,000 Total: \$1,023,301
Prin. Invest.: D WEISTROP
Tech. Officer: GSFC/D VITAGLIANO
CASE Category: 11 - ASTRONOMY

NAG 5 6881 UNIV. OF NEVADA - RENO 6408
 NUMERICAL GEOMECHANICS STUDIES OF PLANETARY FAULTING
 02/27/1998 - 12/31/2000 FY01: \$0 Total: \$164,302
Prin. Invest.: R SCHULTZ
Tech. Officer: GSFC/P ROGERS
CASE Category: 11 - ASTRONOMY

NAG 5 8267 UNIV. OF NEVADA - RENO 6409
 GEOMETRY AND MECHANICS OF FAULTING ON MARS
 02/24/1999 - 06/30/2002 FY01: \$95,000 Total: \$279,000
Prin. Invest.: R SCHULTZ
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 9001 UNIV. OF NEVADA - RENO 6410
 COMPREHENSIVE STRUCTURAL MODEL FOR PLANETARY WRINKLE
 RIDGES
 02/03/2000 - 06/30/2002 FY01: \$44,000 Total: \$80,100
Prin. Invest.: R A SCHULTZ
Tech. Officer: GSFC/D SENSKE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9127 UNIV. OF NEVADA - RENO 6411
 CONCURRENT ANALYSIS OF MULTI- & HYPERSPECTRAL DATA SETS OF
 ANTARCTICA
 02/25/2000 - 12/31/2001 FY01: \$0 Total: \$31,900
Prin. Invest.: W M CALVIN
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9298 UNIV. OF NEVADA - RENO 6412
 ALTERATION MINEROLOGY OF MARS: SPECTROSCOPIC ANALYSIS AND
 INTERPRETATION
 04/27/2000 - 04/30/2001 FY01: \$0 Total: \$55,100
Prin. Invest.: W CALVIN, NONE
Tech. Officer: GSFC/J A GRANT
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 9467 UNIV. OF NEVADA - RENO 6413
 AN AQUEOUS GEOCHEMICAL MODEL FOR COLD PLANETS
 04/18/2000 - 04/14/2001 FY01: \$0 Total: \$33,250
Prin. Invest.: G M MARION
Tech. Officer: GSFC/J A GRANT
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 9498 UNIV. OF NEVADA - RENO 6414
 GLOBAL ASSESSMENT OF VOLCANIC DEBRIS FLOW HAZARDS FROM
 SPACE: EVALUATION OF NEW MULTISPECTRAL AND HYP
 04/27/2000 - 12/31/2001 FY01: \$43,475 Total: \$81,821
Prin. Invest.: R J WATTERS
Tech. Officer: GSFC/S G UNGAR
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10290 UNIV. OF NEVADA - RENO 6415
 ICES & ALTERATION MINERALS IN THE SOLAR SYSTEM: SPECTROSCOPIC
 ANALYSIS & INTERPRETATION
 01/29/2001 - 01/31/2002 FY01: \$43,000 Total: \$43,000
Prin. Invest.: W CALVIN
Tech. Officer: GSFC/D SENKE
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 10926 UNIV. OF NEVADA - RENO 6416
 GEOMECHANICS STUDIES OF PLANETARY FAULTING: MECHANISMS OF
 DEFORMATION ON MARS AND EUROPA
 05/14/2001 - 06/30/2002 FY01: \$36,000 Total: \$36,000
Prin. Invest.: R A SCHULTZ
Tech. Officer: GSFC/D A SENSKE
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 9 1340 UNIV OF NEVADA - RENO 6417
STEM CELL PLASTICITY UNDER SIMULATED MICROGRAVITY
08/01/2001 - 08/01/2004 FY01: \$51,000 Total: \$51,000
Prin. Invest.: G ALMEIDA-PORADA
Tech. Officer: JSC/D RISIN
CASE Category: 43 - CHEMICAL ENGR

NCC 2 5408 UNIV OF NEVADA - RENO 6418
MEASURING CHANGES IN LOCAL VOLUMETRIC BONE DENSITY
11/24/2000 - 11/14/2001 FY01: \$23,750 Total: \$23,750
Prin. Invest.: E WANG
Tech. Officer: ARC/R T WHALEN, ARC/E M HOLTON
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NCC 2 5443 UNIV OF NEVADA - RENO 6419
TESTING/DIRECT OSMOTIC CONCENTRATION
07/16/2001 - 01/31/2003 FY01: \$20,684 Total: \$20,684
Prin. Invest.: V D ADAMS, J G CURTIS, A E CHILDRESS
Tech. Officer: ARC/M T FLYNN, ARC/J W FISHER
CASE Category: 59 - LIFE SCIENCE, OTHER

NCC 3 750 UNIV OF NEVADA - RENO 6420
ACOUSTIC TOMOGRAPHY FOR JET ENGINES/TURBINES: PRO OF OF
CONCEPT
12/15/1999 - 09/30/2001 FY01: \$79,737 Total: \$119,564
Prin. Invest.: J A KLEPPE
Tech. Officer: GRC/G FRALICK
CASE Category: 46 - MECHANICAL ENGR

NGT 5 30385 UNIV OF NEVADA - RENO 6421
EVAPORATION AND CARBON DIOXIDE FLUX MEASUREMENTS A T THE
SALAR DEATACAMA, NORTHERN CHILE/STE
08/13/2001 - 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: S TYLER
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 40113 UNIV OF NEVADA - RENO 6422
NEVADA SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
03/12/2001 - 02/28/2002 FY01: \$206,125 Total: \$206,125
Prin. Invest.: J V TARANIK
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50362 UNIV OF NEVADA - RENO 6423
SYNTHESIS OF HYPERSPECTRAL AND MULTISPECTRAL IMAGE DATA FOR
THE IDENTIFICATION OF FOSSIL AND ACTIVE
05/31/2001 - 06/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: W CALVIN
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 397 UNIV OF NEVADA SYSTEM 6424
NASA EPSCOR: PREPARATORY GRANT PROPOSAL
05/24/1999 - 06/30/2002 FY01: \$0 Total: \$450,000
Prin. Invest.: J TARANKI
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 583 UNIV OF NEVADA SYSTEM 6425
NEVADA NASA EPSCOR PROGRAM
08/27/2001 - 08/31/2004 FY01: \$508,600 Total: \$508,600
Prin. Invest.: J V TARANIK
Tech. Officer: HQ/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NEW HAMPSHIRE

NAG 2 1420 DARTMOUTH COLLEGE 6426
TRANSCRIPTIONAL REGULATIONS & EVOLUTION OF BILATERIAN BODY
PLANS
07/13/2000 - 07/31/2002 FY01: \$66,695 Total: \$134,855
Prin. Invest.: K PETERSON, E H DAVIDSON
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 5 3212 DARTMOUTH COLLEGE 6427
A PRECISE POSITION FOR RU0042+32
04/18/1996 - 10/31/1999 FY01: -\$1,054 Total: \$939
Prin. Invest.: J THORSTENSEN
Tech. Officer: GSFC/R PETRE
CASE Category: 11 - ASTRONOMY

NAG 5 3498 DARTMOUTH COLLEGE 6428
"RIVER FLOODING AND GLOBAL ENVIRONMENTAL CHANGE: A
12/02/1996 - 02/14/2001 FY01: \$0 Total: \$824,151
Prin. Invest.: R BRACKENRIDGE
Tech. Officer: GSFC/M BALTUCK
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 4529 DARTMOUTH COLLEGE 6429
DISPERSIVE ALFVEN DYNAMICS OF THE MAGNETOSPHERE-IO
05/09/1997 - 08/31/2001 FY01: \$0 Total: \$251,535
Prin. Invest.: D LOTKO
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 - PHYSICS

NAG 5 5238 DARTMOUTH COLLEGE 6430
SOUNDING OF THE ION ENERGIZATION REGION: RESOLVING AMBIGUITIES
(SIERRA)
05/11/1999 - 05/10/2002 FY01: \$48,100 Total: \$166,055
Prin. Invest.: J W LABELLE
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 - PHYSICS

NAG 5 5239 DARTMOUTH COLLEGE 6431
FIRST YEAR FUNDING FOR "ROCKET AURORAL CORRELATOR EXPERI-
MENT (RACE) PI DR. JAMES LABELLE
05/19/1999 - 05/18/2002 FY01: \$52,751 Total: \$263,637
Prin. Invest.: J W LABELLE
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 - PHYSICS

NAG 5 5318 DARTMOUTH COLLEGE 6432
HIGH BANDWIDTH AURORAL ROCKET (HI-BAR) HIGH BANDWIDTH
AURORAL ROCKET (HI-BAR)
02/14/2001 - 02/12/2004 FY01: \$69,098 Total: \$69,098
Prin. Invest.: J W LABELLE
Tech. Officer: GSFC/J C BRINTON
CASE Category: 13 - PHYSICS

NGT 5 95	DARTMOUTH COLLEGE	6449		NAG 5 4856	UNIV OF NEW HAMPSHIRE - DURHAM	6457	
STORM-TIME RADIATION BELT DYNAMICS				MAGNETIC RECONNECTION IN SOLAR FLARES			
07/23/1999 - 07/31/2000	FY01: \$0	Total: \$22,000		07/15/1997 - 05/14/2000	FY01: -\$381	Total: \$253,619	
<i>Prin. Invest.:</i> M K HUDSON				<i>Prin. Invest.:</i> D G FORBES			
<i>Tech. Officer:</i> GSFC/L ZANETTI				<i>Tech. Officer:</i> GSFC/W J WAGNER			
<i>CASE Category:</i> 11 - ASTRONOMY				<i>CASE Category:</i> 11 - ASTRONOMY			
NCC 5 384	SAINT ANSELM COLLEGE	6450		NAG 5 5057	UNIV OF NEW HAMPSHIRE - DURHAM	6458	
GROUND-BASED TESTING OF A PROTOTYPE HOLOGRAPHIC AT				A CO-INVESTIGATOR PROPOSAL FOR CORNELL UNIV CAPER			
MOSPHERIC SCANNER FOR ENVIRONMENTAL REMOTESENSIN				06/25/1996 - 05/31/2001		FY01: \$0	Total: \$409,705
03/05/1999 - 08/30/2001	FY01: \$0	Total: \$34,700		<i>Prin. Invest.:</i> R ARNOLDY			
<i>Prin. Invest.:</i> D GUERRA				<i>Tech. Officer:</i> GSFC/L W GURKIN			
<i>Tech. Officer:</i> GSFC/A J NEGRI				<i>CASE Category:</i> 13 - PHYSICS			
<i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE							
NAG 5 1479	UNIV OF NEW HAMPSHIRE - DURHAM	6451		NAG 5 5117	UNIV OF NEW HAMPSHIRE - DURHAM	6459	
THEORETICAL STUDIES ON THE CHROMOSPHERE, CORONA, AND SOLAR				THE TIGRE INSTRUMENT FOR INTERMEDIATE-ENERGY GAMMA-RAY			
WIND				ASGTRONOMY FOR 0.3 TO 100MEV			
11/26/1990 - 09/30/1999	FY01: -\$6,156	Total: \$2,540,074		04/18/1997 - 11/30/2001	FY01: \$24,990	Total: \$175,972	
<i>Prin. Invest.:</i> J V HOLLWEG, M A LEO				<i>Prin. Invest.:</i> J RYAN			
<i>Tech. Officer:</i> GSFC/T J BIRMINGHAM				<i>Tech. Officer:</i> GSFC/H NEEDLEMAN, GSFC/B A MERRITT			
<i>CASE Category:</i> 13 - PHYSICS				<i>CASE Category:</i> 13 - PHYSICS			
NAG 5 3527	UNIV OF NEW HAMPSHIRE - DURHAM	6452		NAG 5 5124	UNIV OF NEW HAMPSHIRE - DURHAM	6460	
ASSESSING THE EFFECTS OF HISTORICAL LAND USE ON FO RESPONSE				ENSTROPHY - FILAMENTATION OF AURORAL CURRENTS			
TO CLIMATE CHANGEAND CO2: A REMOTE SENS				03/10/1997 - 01/31/2001		FY01: \$0	Total: \$389,920
11/18/1996 - 11/14/2000	FY01: -\$1,310	Total: \$550,380		<i>Prin. Invest.:</i> K LYNCH			
<i>Prin. Invest.:</i> M MARTIN				<i>Tech. Officer:</i> GSFC/B FLOWERS			
<i>Tech. Officer:</i> GSFC/D E WICKLAND				<i>CASE Category:</i> 13 - PHYSICS			
<i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER							
NAG 5 3671	UNIV OF NEW HAMPSHIRE - DURHAM	6453		NAG 5 5147	UNIV OF NEW HAMPSHIRE - DURHAM	6461	
CONTINUED STUDIES OF SOUTHERN HEMISPHERE GAMMA-RAY				MINUTE OF ARC RESOLUTION GAMMA-RAY IMAGING EXPERIMENT			
PARADIGMS FOR TWO BLAZAR PROTOTYPES				(MARGIE)			
01/02/1997 - 12/31/1999	FY01: -\$40,990	Total: \$52,005		07/02/1997 - 06/30/2001	FY01: \$0	Total: \$150,000	
<i>Prin. Invest.:</i> W VESTRAND <i>Prin. Invest.:</i> NONE				<i>Prin. Invest.:</i> J RYAN			
<i>Tech. Officer:</i> GSFC/J P NORRIS				<i>Tech. Officer:</i> GSFC/H NEEDLEMAN			
<i>CASE Category:</i> 11 - ASTRONOMY				<i>CASE Category:</i> 13 - PHYSICS			
NAG 5 4458	UNIV OF NEW HAMPSHIRE - DURHAM	6454		NAG 5 5192	UNIV OF NEW HAMPSHIRE - DURHAM	6462	
MAGNETOTAIL-IONOSPHERE COUPLING				MONITORING INITIAL STAGES OF FOREST RECOVERY IN T CZECH			
REPUBLIC				07/18/1997 - 07/31/2000		FY01: \$0	Total: \$444,069
05/14/1997 - 06/30/2000	FY01: \$0	Total: \$63,900		<i>Prin. Invest.:</i> B ROCK			
<i>Prin. Invest.:</i> D L KAUFMANN				<i>Tech. Officer:</i> GSFC/D WICKLAND			
<i>Tech. Officer:</i> GSFC/J BOHLIN				<i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER			
<i>CASE Category:</i> 13 - PHYSICS							
NAG 5 4695	UNIV OF NEW HAMPSHIRE - DURHAM	6455		NAG 5 5212	UNIV OF NEW HAMPSHIRE - DURHAM	6463	
TRANSPORT OF ENERGETIC IONS IN THE RING CURRENT DU S				ULDB COMPTON TELESCOPE MISSION			
06/17/1997 - 11/14/1999	FY01: -\$529	Total: \$120,471		09/22/1998 - 12/31/2001	FY01: \$0	Total: \$60,000	
<i>Prin. Invest.:</i> D M KISTLER				<i>Prin. Invest.:</i> J M RYAN			
<i>Tech. Officer:</i> GSFC/D EVANS				<i>Tech. Officer:</i> WFF/B A MERRITT			
<i>CASE Category:</i> 13 - PHYSICS				<i>CASE Category:</i> 11 - ASTRONOMY			
NAG 5 4785	UNIV OF NEW HAMPSHIRE - DURHAM	6456		NAG 5 5234	UNIV OF NEW HAMPSHIRE - DURHAM	6464	
AN INTEGRATED SYSTEM FOR WATER BUDGET CLOSURE OVER MASS: A				DUST DARTS PI DR. KRISTINA LYNCH			
TRMM VALIDATION EFFORT				02/12/1999 - 03/28/2002		FY01: \$138,400	Total: \$353,595
07/03/1997 - 12/31/2001	FY01: \$0	Total: \$234,500		<i>Prin. Invest.:</i> K LYNCH			
<i>Prin. Invest.:</i> C VOROSMARTY				<i>Tech. Officer:</i> GSFC/W JOHNSON			
<i>Tech. Officer:</i> GSFC/O W THIELE				<i>CASE Category:</i> 13 - PHYSICS			
<i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE							

NAG 5 5237 UNIV OF NEW HAMPSHIRE - DURHAM 6465
 SOUNDING OF THE ION ENERGIZATION REGION: RESOLVING AMBIGUITIES (SIERRA)
 05/11/1999 - 05/10/2002 FY01: \$154,870 Total: \$424,715
Prin. Invest.: R L ARNOLDY
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 - PHYSICS

NAG 5 5324 UNIV OF NEW HAMPSHIRE - DURHAM 6466
 A WIDE FIELD-OF-VIEW HARD X-RAY POLARIMETER FOR STUDYING GAMMA-RAY BURSTS
 03/21/2001 - 12/31/2003 FY01: \$75,000 Total: \$75,000
Prin. Invest.: M L MCCONNELL
Tech. Officer: GSFC/B A MERRITT
CASE Category: 13 - PHYSICS

NAG 5 5326 UNIV OF NEW HAMPSHIRE - DURHAM 6467
 DEVELOPMENT OF CZT STRIP DETECTORS FOR HARD X-RAY IMAGING WITH MARGIE
 03/21/2001 - 12/31/2004 FY01: \$130,000 Total: \$130,000
Prin. Invest.: J M RYAN
Tech. Officer: GSFC/B A MERRITT
CASE Category: 13 - PHYSICS

NAG 5 5327 UNIV OF NEW HAMPSHIRE - DURHAM 6468
 DEVELOPMENT OF CZT STRIP DETECTORS FOR HARD X-RAY AND GAMMA-RAYIMAGING SPECTROSCOPY PI PRO
 08/09/2001 - 12/31/2003 FY01: \$250,000 Total: \$250,000
Prin. Invest.: J RYAN
Tech. Officer: WFF/B MERRITT
CASE Category: 13 - PHYSICS

NAG 5 6115 UNIV OF NEW HAMPSHIRE - DURHAM 6469
 THE BIO-ATMOSPHERIC CYCLES OF NITROGEN AND CARBON: POLLUTION AND TERRESTRIAL
 07/28/1997 - 07/31/2000 FY01: -\$1 Total: \$107,769
Prin. Invest.: B BRASWELL
Tech. Officer: GSFC/D WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6137 UNIV OF NEW HAMPSHIRE - DURHAM 6470
 TRANSFER FUNDS TO UNIV OF NEW HAMPSHIRE IN S ENTITLED: CHANGES IN BIOGEOCHEMICAL CYCLES
 08/11/1997 - 05/31/2002 FY01: \$0 Total: \$6,253,073
Prin. Invest.: B MOORE, III
Tech. Officer: GSFC/A C JANETOS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6289 UNIV OF NEW HAMPSHIRE - DURHAM 6471
 DEVELOPMENT OF A PARTICLE BACKSCATTERING ALGORITHM CONCURRENT SHIP MEASUREMENTS, AND GLOBAL BIOGEOCH
 09/10/1997 - 08/31/2002 FY01: \$79,608 Total: \$425,983
Prin. Invest.: W S BROWN, NONE
Tech. Officer: GSFC/E A LINDSTROM
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6452 UNIV OF NEW HAMPSHIRE - DURHAM 6472
 SATELLITE-BASED SYSTEMS FOR MONITORING BIOGEOCHEMICAL FLUXES BETWEEN THECONTINENTAL LAND MASS AND C
 11/04/1997 - 12/31/2000 FY01: \$0 Total: \$552,982
Prin. Invest.: C VOROSMARTY
Tech. Officer: GSFC/J A YODER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6453 UNIV OF NEW HAMPSHIRE - DURHAM 6473
 ATMOSPHERIC IMPACTS OF AGRICULTURE: INTEGRATION OF REMOTE SENSING AND BIOGEOCHEMICAL MODELS FOR T
 11/18/1997 - 12/31/2001 FY01: \$0 Total: \$336,476
Prin. Invest.: C LI
Tech. Officer: GSFC/D WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6623 UNIV OF NEW HAMPSHIRE - DURHAM 6474
 RADAR-BASED MEASURE OF INTERANNUAL VEGETATION PHEN OLOGY FOR MONITORING GLOBAL CHANGES RESPONSES OF
 11/19/1997 - 11/30/2000 FY01: \$0 Total: \$83,227
Prin. Invest.: S FROLKING
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6860 UNIV OF NEW HAMPSHIRE - DURHAM 6475
 WIND/SWE CONTINUED INVESTIGATIONS
 02/17/1998 - 01/14/2001 FY01: \$0 Total: \$459,155
Prin. Invest.: R TORBERT
Tech. Officer: GSFC/K OGILVIE
CASE Category: 13 - PHYSICS

NAG 5 6925 UNIV OF NEW HAMPSHIRE - DURHAM 6476
 GRANT
 02/04/1998 - 01/31/2001 FY01: -\$374 Total: \$389,360
Prin. Invest.: L M KISTLER
Tech. Officer: GSFC/M HESSE
CASE Category: 13 - PHYSICS

NAG 5 6935 UNIV OF NEW HAMPSHIRE - DURHAM 6477
 GRANT
 02/04/1998 - 07/31/2001 FY01: \$0 Total: \$379,492
Prin. Invest.: R B TORBERT
Tech. Officer: GSFC/M HESSE
CASE Category: 13 - PHYSICS

NAG 5 7095 UNIV OF NEW HAMPSHIRE - DURHAM 6478
 SCALING PEATLAND CO2 AND CH4 FLUXES FROM CHAMBERS TO THE BOREAS NORTH-ERN AND SOUTHERN STUDY AREAS
 05/21/1998 - 04/30/2001 FY01: \$0 Total: \$218,362
Prin. Invest.: S FROLKING
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7097 UNIV OF NEW HAMPSHIRE - DURHAM 6479
 STUDIES OF INTERSTELLAR PICKUP IONS IN THE SOLAR WIND
 06/05/1998 - 04/30/2001 FY01: \$0 Total: \$220,600
Prin. Invest.: P A ISENBERG
Tech. Officer: GSFC/J LING
CASE Category: 11 - ASTRONOMY

NAG 5 7368 UNIV OF NEW HAMPSHIRE - DURHAM 6480
 STUDY OF RING CURRENT DYNAMICS DURING GEOMAGNETIC STORMS
 05/06/1998 - 05/31/2000 FY01: -\$2 Total: \$13,998
Prin. Invest.: V K JORDANOVA
Tech. Officer: GSFC/D EVANS
CASE Category: 11 - ASTRONOMY

NAG 5 7601 UNIV OF NEW HAMPSHIRE - DURHAM 6481
 DEVELOPMENT OF SPACE-BASED TECHNIQUES FOR MEASURING
 07/24/1998 - 07/14/2000 FY01: \$0 Total: \$89,532
Prin. Invest.: L D DINGMAN
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 7631 UNIV OF NEW HAMPSHIRE - DURHAM 6482
 QUANTIFYING THE ATMOSPHERIC IMPACTS OF PADDY RICE AGRICULTURE
 IN CHINA
 08/10/1998 - 09/30/2002 FY01: \$370,330 Total: \$1,350,000
Prin. Invest.: C LI
Tech. Officer: GSFC/A C JANETOS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7792 UNIV OF NEW HAMPSHIRE - DURHAM 6483
 ION ACCELERATION AND TRANSPORT IN IMPULSIVE AND GRADUAL
 SOLAR FLARES
 12/14/1998 - 12/31/2001 FY01: \$58,263 Total: \$166,844
Prin. Invest.: D A LEE
Tech. Officer: GSFC/D C LING
CASE Category: 11 - ASTRONOMY

NAG 5 7798 UNIV OF NEW HAMPSHIRE - DURHAM 6484
 SMALL SCALE STRUCTURE OF AURORAL ELECTRIC CURRENTS -- A
 GUEST INVESTIGATOR PROPOSAL TO THE FAST
 12/15/1998 - 12/31/2001 FY01: \$0 Total: \$168,425
Prin. Invest.: D A LYNCH
Tech. Officer: GSFC/L ZANETTI
CASE Category: 11 - ASTRONOMY

NAG 5 7804 UNIV OF NEW HAMPSHIRE - DURHAM 6485
 ELECTRIC FIELDS AND RING CURRENT ENERGIZATION (SEC
 PROGRAM)
 11/06/1998 - 12/31/2001 FY01: \$77,655 Total: \$224,131
Prin. Invest.: V K JORDANOVA
Tech. Officer: GSFC/M H ACUNA
CASE Category: 13 - PHYSICS

NAG 5 8041 UNIV OF NEW HAMPSHIRE - DURHAM 6486
 INVESTIGATION OF POLAR CAP AND RING CURRENT PRECIPITATION
 01/07/1999 - 01/14/2001 FY01: \$0 Total: \$60,695
Prin. Invest.: R B TOBBERT
Tech. Officer: GSFC/M H ACUNA
CASE Category: 13 - PHYSICS

NAG 5 8044 UNIV OF NEW HAMPSHIRE - DURHAM 6487
 AN INVESTIGATION OF THE CHARGE STATE COMPOSITION OF SOLAR
 & SHOCKACCELERATED SUPRATHERMAL PA
 01/11/1999 - 01/14/2000 FY01: \$0 Total: \$36,081
Prin. Invest.: A B GALVIN
Tech. Officer: GSFC/M H ACUNA
CASE Category: 13 - PHYSICS

NAG 5 8228 UNIV OF NEW HAMPSHIRE - DURHAM 6488
 "THEORETICAL STUDIES OF THE SOLAR ATMOSPHERE AND SOLAR WIND".
 02/24/1999 - 03/14/2002 FY01: \$400,000 Total: \$1,139,914
Prin. Invest.: J V HOLLWEG
Tech. Officer: GSFC/J M GREBOWSKY
CASE Category: 13 - PHYSICS

NAG 5 8443 UNIV OF NEW HAMPSHIRE - DURHAM 6489
 A WATER BUDGET CLOSURE SYSTEM TO SUPPORT LBA HYDRO
 METEOROLOGY AND ECOLOGY STUDIES
 04/08/1999 - 04/14/2002 FY01: \$104,881 Total: \$328,145
Prin. Invest.: C J VOROSMARTY
Tech. Officer: GSFC/P T HOUSER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8452 UNIV OF NEW HAMPSHIRE - DURHAM 6490
 USE OF SAR FOR MONITORING DEFORESTATION AND SECONDARY
 GROWTH IN THE TROPICS
 04/09/1999 - 08/31/2000 FY01: -\$608 Total: \$40,934
Prin. Invest.: W SALAS
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8486 UNIV OF NEW HAMPSHIRE - DURHAM 6491
 SONTRAC - A NEUTRON TRACKING DEVICE FOR SOLAR AND
 ATMOSPHERIC PHYSICS
 04/29/1999 - 10/30/2000 FY01: \$0 Total: \$171,043
Prin. Invest.: J M RYAN
Tech. Officer: GSFC/W WAGNER
CASE Category: 11 - ASTRONOMY

NAG 5 8641 UNIV OF NEW HAMPSHIRE - DURHAM 6492
 AN APD READOUT SCHEME FOR A SOLAR NEUTRON TRACKING DEVICE.
 07/08/1999 - 06/30/2002 FY01: \$0 Total: \$368,600
Prin. Invest.: M L MCCONNELL, NONE
Tech. Officer: GSFC/F HERRERO
CASE Category: 13 - PHYSICS

NAG 5 8656 UNIV OF NEW HAMPSHIRE - DURHAM 6493
 EDUCATION & PUBLIC OUTREACH PROPOSAL - UNIV-LEVEL RESEARCH
 PROJECTS FOR HIGH SCHOOL STUDENTS
 08/19/1999 - 08/31/2000 FY01: -\$3 Total: \$997
Prin. Invest.: M MCCONNELL
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 - ASTRONOMY

NAG 5 8683 UNIV OF NEW HAMPSHIRE - DURHAM 6494
 THE CONTRIBUTION OF SATELLITE RADAR ALTIMETRY TO THE DETER-
 MINATION OF RIVER DISCHARGE & LAKE/RESSER
 07/23/1999 - 07/14/2001 FY01: \$0 Total: \$132,199
Prin. Invest.: C J VOROSMARTY
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8733 UNIV OF NEW HAMPSHIRE - DURHAM 6495
 CONVERSION SURFACE TECHNOLOGY FOR LOW ENERGY NEUTRAL
 ATOM IMAGING.
 09/14/1999 - 06/30/2002 FY01: \$0 Total: \$352,372
Prin. Invest.: J QUINN
Tech. Officer: GSFC/G MUCKLOW
CASE Category: 11 - ASTRONOMY

NAG 5 8828 UNIV OF NEW HAMPSHIRE - DURHAM 6496
 "COOPERATION BETWEEN IGBP AND LAB: MEETING THE INTERNATIONAL CHALLENGE"
 09/08/1999 - 03/14/2002 FY01: \$98,450 Total: \$214,950
Prin. Invest.: B MOORE III
Tech. Officer: GSFC/D DEERING
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9614 UNIV OF NEW HAMPSHIRE - DURHAM 6497
 MAGNETIC RECONNECTION IN SOLAR FLARES
 05/16/2000 - 11/14/2001 FY01: \$0 Total: \$29,840
Prin. Invest.: T G FORBES
Tech. Officer: GSFC/W J WAGNER
CASE Category: 13 - PHYSICS

NAG 5 9617 UNIV OF NEW HAMPSHIRE - DURHAM 6498
 A REGIONAL INTEGRATED MONITORING SYSTEM FOR THE HYDROLOGY OF THE PAN-ARCTIC MASS
 05/23/2000 - 04/30/2002 FY01: \$132,842 Total: \$214,401
Prin. Invest.: C VOROSMARTY
Tech. Officer: GSFC/P HOUSER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9685 UNIV OF NEW HAMPSHIRE - DURHAM 6499
 CONSOLIDATING THE VELA-REGION 1.809 MEV RESULTS
 06/05/2000 - 06/14/2001 FY01: \$0 Total: \$3,500
Prin. Invest.: J RYAN
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 - ASTRONOMY

NAG 5 9689 UNIV OF NEW HAMPSHIRE - DURHAM 6500
 LONG DURATION SOLAR OBSERVATIONS WITH COMPTEL
 06/15/2000 - 06/14/2001 FY01: \$0 Total: \$5,000
Prin. Invest.: M L MCCONNELL
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 - ASTRONOMY

NAG 5 9960 UNIV OF NEW HAMPSHIRE - DURHAM 6501
 CLUSTER ELECTRON DRIFT INSTRUMENT (EDI).
 09/20/2000 - 10/31/2001 FY01: \$525,751 Total: \$867,315
Prin. Invest.: J M QUINN
Tech. Officer: GSFC/M GOLDSTEIN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 10135 UNIV OF NEW HAMPSHIRE - DURHAM 6502
 PREDICTING CHANGES IN REGIONAL & GLOBAL BIOGEO- CHEMICAL CYCLES
 02/14/2001 - 12/31/2001 FY01: \$800,000 Total: \$800,000
Prin. Invest.: B MOORE
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10203 UNIV OF NEW HAMPSHIRE - DURHAM 6503
 HARD X-RAY POLARIMETRY OF SOLAR FLARES WITH HESSI
 12/28/2000 - 12/31/2001 FY01: \$68,115 Total: \$68,115
Prin. Invest.: M L MCCONNELL
Tech. Officer: GSFC/W WAGNER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10260 UNIV OF NEW HAMPSHIRE - DURHAM 6504
 A SATELLITE-BASED SYSTEM FOR MONITORING FLUXES BETWEEN THE CONTINENTAL LAND MASS & COASTAL OCEANS
 02/05/2001 - 12/31/2001 FY01: \$212,404 Total: \$212,404
Prin. Invest.: C VOROSMARTY
Tech. Officer: GSFC/J MARRA
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10360 UNIV OF NEW HAMPSHIRE - DURHAM 6505
 GGS/WIND MISSION MISSIONS OPERATIONS AND DATA ANALYSIS PHASE.
 02/05/2001 - 02/14/2002 FY01: \$100,000 Total: \$100,000
Prin. Invest.: R TORBERT
Tech. Officer: GSFC/K OGILVIE
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 10420 UNIV OF NEW HAMPSHIRE - DURHAM 6506
 CONSTELLATION PATHFINDER TECHNOLOGY DEVELOPMENT: SYSTEMS INTEGRATION AND MANUFACTURABILITY.
 03/12/2001 - 03/14/2002 FY01: \$49,645 Total: \$49,645
Prin. Invest.: D LYNCH
Tech. Officer: GSFC/P BUCHANAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 10472 UNIV OF NEW HAMPSHIRE - DURHAM 6507
 PARTICLE ENERGIZATION IN REVERSE AURORA
 02/27/2001 - 02/28/2002 FY01: \$79,035 Total: \$79,035
Prin. Invest.: K LYNCH
Tech. Officer: GSFC/J SPANN
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 10835 UNIV OF NEW HAMPSHIRE - DURHAM 6508
 A NEW KINETIC MODEL FOR CORONAL HEATING AND GENERATION OF THE FAST SOLAR WIND BY ION-CYCLOTRON
 04/27/2001 - 04/30/2002 FY01: \$94,021 Total: \$94,021
Prin. Invest.: P A ISENBERG
Tech. Officer: GSFC/W J WAGNER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10883 UNIV OF NEW HAMPSHIRE - DURHAM 6509
 AN ASSESSMENT OF THE FEASIBILITY OF PREDICTING MAJOR GEOMAGNETIC DISTURBANCES FROM MONITORS IN
 05/03/2001 - 04/30/2002 FY01: \$98,885 Total: \$98,885
Prin. Invest.: C FARRUGIA
Tech. Officer: GSFC/W WAGNER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10890 UNIV OF NEW HAMPSHIRE - DURHAM 6510
 LOCAL INTERSTELLAR MEDIUM PARAMETERS
 05/10/2001 - 05/31/2002 FY01: \$75,327 Total: \$75,327
Prin. Invest.: E MOEBIUS
Tech. Officer: GSFC/J GURMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 10977 UNIV OF NEW HAMPSHIRE - DURHAM 6511
 NUMERICAL TESTS OF ERUPTIVE CME MODELS
 05/29/2001 - 05/31/2002 FY01: \$53,067 Total: \$53,067
Prin. Invest.: T G FORBES
Tech. Officer: GSFC/W J WAGNER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10988 UNIV OF NEW HAMPSHIRE - DURHAM 6512
 THE ROLE OF KINETICS IN NEARLY PERPENDICULAR CASCADES
 06/05/2001 - 05/31/2002 FY01: \$86,312 Total: \$86,312
Prin. Invest.: B J VASQUEZ
Tech. Officer: GSFC/W J WAGNER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 11160 UNIV OF NEW HAMPSHIRE - DURHAM 6513
 LAND-USE CHANGE IN TEMPERATE EAST ASIA: LAND COVER CHANGE
 IMPACTS ON CARBON FLUXES AND LAND PRODUCTI
 08/03/2001 - 07/31/2002 FY01: \$36,831 Total: \$36,831
Prin. Invest.: X XIAO
Tech. Officer: GSFC/G Q GUTMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 11258 UNIV OF NEW HAMPSHIRE - DURHAM 6514
 AIR-SEA FLUX OF CO₂: EFFECTS OF SMALL-SCALE VARIABILITY ON
 LARGE-SCALE ESTIMATES
 08/17/2001 - 08/31/2004 FY01: \$133,369 Total: \$133,369
Prin. Invest.: J W CAMPBELL
Tech. Officer: GSFC/J MARRA
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 11310 UNIV OF NEW HAMPSHIRE - DURHAM 6515
 SCALING FOREST CARBON FLUX MEASUREMENTS FROM SITES TO LAND-
 SCAPES: AHYPERSPECTRAL ANALYSIS OF F
 08/31/2001 - 08/31/2004 FY01: \$268,075 Total: \$268,075
Prin. Invest.: S OLLINGER
Tech. Officer: GSFC/D WICKLAND
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAS 5 00132 UNIV OF NEW HAMPSHIRE - DURHAM 6516
 STEREO PHASE A CONCEPT STUDY FOR INSTANT MEASUREMENTS OF
 PARTICLES & CME TRANSIENT (IMPACT)
 02/22/2000 - 11/29/2001 FY01: \$825,709 Total: \$1,323,609
Prin. Invest.: A GALVIN
Tech. Officer: GSFC/A HARPER
CASE Category: 13 - PHYSICS

NAS 5 26645 UNIV OF NEW HAMPSHIRE - DURHAM 6517
 DEFINITION PHASE OF THE DETECTOR SUBSYSTEM FOR THE COMPTEL
 08/19/1981 - 09/30/2002 FY01: \$250,000 Total: \$30,541,653
Prin. Invest.: J RYAN
Tech. Officer: GSFC/J NORRIS
CASE Category: 11 - ASTRONOMY

NAS 5 30744 UNIV OF NEW HAMPSHIRE - DURHAM 6518
 ELECTRON DRIFT EXPERIMENT & ACTIVE SPACECRAFT POTENTIAL
 11/22/1989 - 10/17/2000 FY01: \$0 Total: \$16,084,594
Prin. Invest.: R TORBERT
Tech. Officer: GSFC/L CHRISTENSEN
CASE Category: 13 - PHYSICS

NAS 5 96063 UNIV OF NEW HAMPSHIRE - DURHAM 6519
 MODIS-EOS DEVELOPMENT OF ALGORITHMS
 07/16/1996 - 12/14/2001 FY01: \$217,000 Total: \$1,156,000
Prin. Invest.: J CAMPBELL
Tech. Officer: GSFC/D TOLL, GSFC/B CONBOY
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 1 298 UNIV OF NEW HAMPSHIRE - DURHAM 6520
 PEM-TROPICS B MY 1/2
 04/30/1998 - 07/31/2001 FY01: \$0 Total: \$818,000
Prin. Invest.: R W TALBOT, J E DIBB
Tech. Officer: LARC/J M HOELL, JR., LARC/R J BENDURA
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 1 410 UNIV OF NEW HAMPSHIRE - DURHAM 6521
 TRACE-P DC-8 AND P3-B AIRCRAFT MY 1/3
 09/13/2000 - 06/30/2003 FY01: \$168,939 Total: \$379,907
Prin. Invest.: R W TALBOT
Tech. Officer: LARC/J L RAPER, SR
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 5 226 UNIV OF NEW HAMPSHIRE - DURHAM 6522
 TROPICAL BIOCHEMISTRY & NASA LBA ECOLOGY SCIENCE S
 09/10/1997 - 12/31/2001 FY01: \$173,479 Total: \$656,894
Prin. Invest.: D BARTLETT
Tech. Officer: GSFC/D WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 5 304 UNIV OF NEW HAMPSHIRE - DURHAM 6523
 WEB BASED SYSTEM FOR TERRESTRIAL ENVIRONMENTAL RESEARCH
 04/22/1998 - 06/30/2002 FY01: \$610,000 Total: \$3,385,000
Prin. Invest.: B MOORE
Tech. Officer: GSFC/M MAIDEN
CASE Category: 29 - MATH/COMPUTER SCI, OTHER

NCC 5 338 UNIV OF NEW HAMPSHIRE - DURHAM 6524
 MODELING THE BIOGEOCHEMICAL SYSTEM OF THE TERRESTRIAL
 AMAZON: ISSUES FOR SUSTAINABILITY
 06/23/1998 - 12/31/2001 FY01: \$232,670 Total: \$1,023,276
Prin. Invest.: B MOORE, 111
Tech. Officer: GSFC/D W DEERING
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 5 357 UNIV OF NEW HAMPSHIRE - DURHAM 6525
 SOIL BIOGEOCHEMISTRY OF CARBON, NUTRIENTS AND TRACE GAS IN
 THE AMAZON REGION OF BRAZIL: FIELD AND
 08/03/1998 - 12/31/2001 FY01: \$235,394 Total: \$1,034,065
Prin. Invest.: P CRILL
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 5 477 UNIV OF NEW HAMPSHIRE - DURHAM 6526
 EVALUATION OF HYPERSPECTRAL REQUIREMENTS FOR REMOTE ESTIMA-
 TION OF FOREST ECOSYSTEM COMPOSITION
 03/22/2000 - 12/31/2001 FY01: \$108,292 Total: \$121,360
Prin. Invest.: M E MARTIN
Tech. Officer: GSFC/S G UNGAR
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 5 499 UNIV OF NEW HAMPSHIRE - DURHAM 6527
 "LENA/IMAGE" MO&DA - ON-ORBIT EVALUATION & VALIDATION OF THE
 LENA INSTRUMENT OPERATION & DATA
 05/03/2000 - 01/31/2001 FY01: \$0 Total: \$28,065
Prin. Invest.: J M QUINN
Prin. Invest.: NONE
Tech. Officer: GSFC/T E MOORE
CASE Category: 11 - ASTRONOMY

NCC 5 587 UNIV OF NEW HAMPSHIRE - DURHAM 6528
 VALIDATING, SCALING AND PARAMETERIZING A FOREST RE GROWTH
 MODEL FOR THE AMAZON REGION USING AIRCRAFT
 08/30/2001 - 08/31/2004 FY01: \$281,397 Total: \$281,397
Prin. Invest.: W SALAS
Tech. Officer: GSFC/D WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30125 UNIV OF NEW HAMPSHIRE - DURHAM 6529
 SOIL HYDROLOGICAL CONTROLS OVER NITROGEN OXIDE EMISSIONS
 AND NITROGEN CYCLING IN TROPICAL AGRICUL
 06/03/1998 - 08/31/2000 FY01: -\$8,572 Total: \$57,428
Prin. Invest.: P CRILL
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTALSCI, OTHER

NGT 5 30349 UNIV OF NEW HAMPSHIRE - DURHAM 6530
 SOURCE APPORTIONMENT OF ANTHROPOGENIC AEROSOLS CON TRIB-
 UTING TO DIRECT RADIATIVE FORCING IN SOUTHERN
 08/24/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: J E DIBB
Tech. Officer: GSFC/M WEITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40010 UNIV OF NEW HAMPSHIRE - DURHAM 6531
 TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE
 AND FELLOWSHIP PROGRAM.
 01/30/1997 - 02/28/2001 FY01: -\$254,296 Total: \$1,028,851
Prin. Invest.: D S BARTLETT
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40088 UNIV OF NEW HAMPSHIRE - DURHAM 6532
 NEW HAMPSHIRE SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
 02/21/2001 - 02/28/2002 FY01: \$685,546 Total: \$685,546
Prin. Invest.: D BARTLETT
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NEW JERSEY

NAG 1 01110 NEW JERSEY INST OF TECHNOLOGY 6533
 NANOCOMPOSITES BASED ON LIQUID CRYSTALLINE POLYMERS
 08/30/2001 - 09/30/2004 FY01: \$131,933 Total: \$131,933
Prin. Invest.: M JAFFE
Tech. Officer: LARC/E S WEISER, LARC/B J JENSEN
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 3 2367 NEW JERSEY INST OF TECHNOLOGY 6534
 GRAVITY AND GRANULAR MATERIALS GRAVITY AND GRANULAR
 MATERIALS
 03/24/2000 - 11/30/2003 FY01: \$10,435 Total: \$20,333
Prin. Invest.: L KONDIC, NONE
Tech. Officer: GRC/A WILKENSEN
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2459 NEW JERSEY INST OF TECHNOLOGY 6535
 DATA ANALYSIS FOR REAL-TIME/POST FLIGHT HEALTH MONITORING OF
 PROPULSION SYSTEMS
 06/07/2000 - 12/31/2001 FY01: \$48,702 Total: \$104,419
Prin. Invest.: D P DHAWAN
Tech. Officer: GRC/E WONG
CASE Category: 45 - ELECTRICAL ENGR

NAG 3 2475 NEW JERSEY INST OF TECHNOLOGY 6536
 DATA MINING AND OPTIMIZATION TOOLS FOR ENGINE CONDITION
 MONITORING
 07/19/2000 - 11/30/2001 FY01: \$60,599 Total: \$94,022
Prin. Invest.: D P DHAWAN
Tech. Officer: GRC/J LITT
CASE Category: 29 - MATH/COMPUTER SCI, OTHER

NAG 5 4919 NEW JERSEY INST OF TECHNOLOGY 6537
 STUDIES OF SOLAR MAGNETIC FIELDS AND SOLAR ACTIVIT
 07/08/1997 - 05/31/2000 FY01: -\$16 Total: \$1,044,459
Prin. Invest.: D R GOODE
Tech. Officer: GSFC/W J WAGNER
CASE Category: 11 - ASTRONOMY

NAG 5 5144 NEW JERSEY INST OF TECHNOLOGY 6538
 A STUDENT-DESIGNED EXPERIMENT TO ANALYZE PARTICLES COLLECTED
 DURING A NASA BALLOON FLIGHT
 06/17/1997 - 12/17/1999 FY01: \$0 Total: \$34,220
Prin. Invest.:
Tech. Officer: GSFC/H NEEDLEMAN
CASE Category: 11 - ASTRONOMY

NAG 5 6381 NEW JERSEY INST OF TECHNOLOGY 6539
 MEASUREMENTS OF THE SOLAR CORONA AND MAGNETIC FIELDS USING
 IMAGINGMICROWAVE SPECTROSCOPY
 10/31/1997 - 06/30/2001 FY01: \$0 Total: \$316,003
Prin. Invest.: D GARY
Tech. Officer: GSFC/W WAGNER
CASE Category: 13 - PHYSICS

NAG 5 7085 NEW JERSEY INST OF TECHNOLOGY 6540
 STATISTICAL STUDIES OF FILAMENT DIAPPEARANCES BY ANALYZING
 FULL-DISK YOHKOH SXT AND BBSO HX DATA
 03/13/1998 - 10/14/2001 FY01: \$0 Total: \$105,906
Prin. Invest.: H WANG
Prin. Invest.: NONE
Tech. Officer: GSFC/W WAGNER
CASE Category: 11 - ASTRONOMY

NAG 5 7454 NEW JERSEY INST OF TECHNOLOGY 6541
 EARTHSHINE MEASUREMENTS OF GLOBAL ATMOSPHERIC PROPERTIES
 07/23/1998 - 07/31/2001 FY01: \$107,176 Total: \$325,721
Prin. Invest.: P R GOODE
Tech. Officer: GSFC/D EVANS
CASE Category: 11 - ASTRONOMY

NAG 5 7837 NEW JERSEY INST OF TECHNOLOGY 6542
 SOHO/BBSO COORDINATED STUDY ON MAGNETIC RECONNECTION IN
 THE QUIET SUN
 12/22/1998 - 12/31/2001 FY01: \$81,154 Total: \$232,363
Prin. Invest.: H WANG
Tech. Officer: GSFC/J GURMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 8466 NEW JERSEY INST OF TECHNOLOGY 6543
 SOFTWARE DEVELOPMENT FOR THE OWENS VALLEY SOLAR ARRAY IN
 SUPPORT OF HESSI
 04/29/1999 – 09/30/2000 FY01: -\$313 Total: \$73,204
Prin. Invest.: D E GARY
Tech. Officer: GSFC/W WAGNER
CASE Category: 11 – ASTRONOMY

NAG 5 8485 NEW JERSEY INST OF TECHNOLOGY 6544
 INTERACTION OF WAVES AND CONVECTION IN THE SUN
 05/04/1999 – 04/30/2002 FY01: \$47,923 Total: \$131,417
Prin. Invest.: M F WOODARD
Tech. Officer: GSFC/W WAGNER
CASE Category: 11 – ASTRONOMY

NAG 5 9501 NEW JERSEY INST OF TECHNOLOGY 6545
 STUDIES OF SMALL-SCALE DYNAMICS BY JOINT TRACE AND BBSO
 OBSERVATIONS
 04/20/2000 – 04/30/2002 FY01: \$74,612 Total: \$116,483
Prin. Invest.: H WANG
Tech. Officer: GSFC/W J WAGNER
CASE Category: 13 – PHYSICS

NAG 5 9519 NEW JERSEY INST OF TECHNOLOGY 6546
 SOURCES OF SOLAR IRRADIANCE VARIATION
 05/02/2000 – 07/30/2001 FY01: \$0 Total: \$47,100
Prin. Invest.: M F WOODARD
Tech. Officer: GSFC/W J WAGNER
CASE Category: 13 – PHYSICS

NAG 5 9682 NEW JERSEY INST OF TECHNOLOGY 6547
 STUDIES OF SOLAR MAGNETIC FIELDS & SOLAR ACTIVITY
 06/26/2000 – 05/31/2002 FY01: \$263,866 Total: \$525,155
Prin. Invest.: P R GOODE
Tech. Officer: GSFC/W J WAGNER
CASE Category: 13 – PHYSICS

NAG 5 9730 NEW JERSEY INST OF TECHNOLOGY 6548
 NEW GRANT GLOBAL ASYMMETRIES IN SOLAR INTERIOR FROM SOHO
 06/22/2000 – 06/30/2001 FY01: \$0 Total: \$73,307
Prin. Invest.: P GOODE
Tech. Officer: GSFC/J GURMAN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 9738 NEW JERSEY INST OF TECHNOLOGY 6549
 NEW GRANT STUDY OF FILAMENT ERUPTIONS AND CORONAL MASS EJECTIONS BY SOHO
 07/18/2000 – 07/31/2001 FY01: \$0 Total: \$100,440
Prin. Invest.: H WANG
Tech. Officer: GSFC/J GURMAN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 10212 NEW JERSEY INST OF TECHNOLOGY 6550
 MICROWAVE IMAGING SPECTROSCOPY OF SOLAR FLARES IN SUPPORT OF HESSI
 01/03/2001 – 12/31/2001 FY01: \$78,945 Total: \$78,945
Prin. Invest.: D E GARY
Tech. Officer: GSFC/W WAGNER
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10891 NEW JERSEY INST OF TECHNOLOGY 6551
 STUDY OF OVSA MICROWAVES AND HESSI HARD X-RAYS
 05/10/2001 – 05/31/2002 FY01: \$47,208 Total: \$47,208
Prin. Invest.: J LEE
Tech. Officer: GSFC/J GURMAN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 10894 NEW JERSEY INST OF TECHNOLOGY 6552
 EPHEMERAL REGIONS AND CANCELLING MAGNETIC FEATURES
 05/14/2001 – 05/31/2002 FY01: \$46,245 Total: \$46,245
Prin. Invest.: J CHAE
Tech. Officer: GSFC/J GURMAN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 10910 NEW JERSEY INST OF TECHNOLOGY 6553
 HESSI-BBSO JOINT STUDIES OF SOLAR FLARES
 05/24/2001 – 05/31/2002 FY01: \$74,971 Total: \$74,971
Prin. Invest.: H WANG
Tech. Officer: GSFC/J GURMAN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 11007 NEW JERSEY INST OF TECHNOLOGY 6554
 EARTHSHINE MEASUREMENTS OF THE EARTH'S ALBEDO
 06/29/2001 – 06/30/2002 FY01: \$73,505 Total: \$73,505
Prin. Invest.: P R GOODE
Tech. Officer: GSFC/W WAGNER
CASE Category: 11 – ASTRONOMY

NAG 8 1714 NEW JERSEY INST OF TECHNOLOGY 6555
 HIGH TEMPERATURE PHASES AND PHASE EQUILIBRIA IN REACTIVE MOLTEN METAL-BASED SYSTEMS
 05/04/2000 – 11/30/2003 FY01: \$99,750 Total: \$149,750
Prin. Invest.: E DREIZIN
Tech. Officer: MSFC/P DOTY
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NCC 3 746 NEW JERSEY INST OF TECHNOLOGY 6556
 DETAILED REACTION MECHANISMS AND PARTICLE INTERACTION IN BURNING TWO-PHASE SYSTEMS
 12/07/1999 – 06/30/2001 FY01: \$0 Total: \$53,363
Prin. Invest.: E L DREIZIN
Tech. Officer: GRC/R F FRIEDMAN
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 9103 PASSAIC COUNTY COMMUNITY COLLEGE 6557
 PANTHER PROJECT (PATERSON & NASA TOGETHER FOR HIGH EXPECTATIONS & RESULTS)
 03/10/2000 – 02/28/2002 FY01: \$100,000 Total: \$200,000
Prin. Invest.: R EPSTEIN
Tech. Officer: HQ/STOUTSENBERGER
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 1 2291 PRINCETON UNIV 6558
 ADAPTIVE AND OPTIMAL CONTROLLER DESIGNS FOR UNCERTAIN AEROSPACE STRUCTURES
 04/13/2000 – 12/01/2000 FY01: \$0 Total: \$45,000
Prin. Invest.: M Q PHAN
Tech. Officer: LARC/P G MAGHAMI
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 01010 **PRINCETON UNIV** **6559**
 SELF-HEALING ORGANIC/INORGANIC NANOCOMPOSITES
 01/10/2001 – 12/31/2003 FY01: \$125,000 Total: \$125,000
Prin. Invest.: A AKSAY
Tech. Officer: WFF/T L STCLAIR
CASE Category: 12 – CHEMISTRY

NAG 2 561 **PRINCETON UNIV** **6560**
 STUDIES IN ROTORCRAFT SYSTEM IDENTIFICATION
 02/03/1989 – 01/31/2000 FY01: \$0 Total: \$372,867
Prin. Invest.: H C CURTISS, R M MCKILLUP
Tech. Officer: ARC/J A FRANKLIN, ARC/M B TISCHLER
CASE Category: 41 – AERONAUTICAL ENGR

NAG 2 1327 **PRINCETON UNIV** **6561**
 DEVELOPMENT OF UNSTRUCTURED METHODS FOR EFFICIENT AERODY-
 NAMIC SIMULATION & DESIGN
 05/21/1999 – 03/14/2002 FY01: \$69,588 Total: \$205,335
Prin. Invest.: T J BAKER, A J SMITS
Tech. Officer: ARC/S E CLIFF
CASE Category: 41 – AERONAUTICAL ENGR

NAG 2 1400 **PRINCETON UNIV** **6562**
 STUDIES IN ROTORCRAFT SYSTEM IDENTIFICATION
 03/28/2000 – 09/30/2001 FY01: \$0 Total: \$22,500
Prin. Invest.: H C CURTIS
Tech. Officer: ARC/M B TISCHLER
CASE Category: 41 – AERONAUTICAL ENGR

NAG 2 1475 **PRINCETON UNIV** **6563**
 PIERZOELECTRIC MICROCANTILEVERS WITH NANOSCOPIC COATINGS A
 BREAKTHROUGH SENSING TECHNOLOGY
 04/20/2001 – 04/14/2003 FY01: \$598,740 Total: \$598,740
Prin. Invest.: I AKSAY
Tech. Officer: ARC/M MEYAPPAN, ARC/H PATRIDGE
CASE Category: 22 – COMPUTER SCIENCE

NAG 3 2248 **PRINCETON UNIV** **6564**
 THE CONTROL AND DYNAMICS OF HARD SPHERE COLLOIDAL DISPERS-
 IONS
 03/30/1999 – 02/23/2004 FY01: \$432,500 Total: \$1,032,500
Prin. Invest.: P M CHALKIN
Tech. Officer: GRC/B S SINGH
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 2380 **PRINCETON UNIV** **6565**
 ELECTROHYDRODYNAMIC FLOWS IN ELECTROCHEMICAL SYSTEMS
 04/06/2000 – 11/30/2003 FY01: \$90,250 Total: \$150,250
Prin. Invest.: D A SAVILLE
Tech. Officer: GRC/F P CHIARAMONTE
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 3 2473 **PRINCETON UNIV** **6566**
 FUEL SULFUR ISSUES AND SOX/NOX/COX HOT SECTION INTERACTIONS
 07/12/2000 – 09/30/2001 FY01: \$0 Total: \$100,087
Prin. Invest.: D L DRYER
Tech. Officer: GRC/M RABINOWITZ
CASE Category: 41 – AERONAUTICAL ENGR

NAG 5 616 **PRINCETON UNIV** **6567**
 INTERSTELLAR MEDIUM ABSORPTION PROFILE SPECTROGRAPH (IMAPS)
 01/01/1983 – 10/31/2002 FY01: \$10,649 Total: \$10,722,665
Prin. Invest.: E B JENKINS
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 – PHYSICS

NAG 5 1629 **PRINCETON UNIV** **6568**
 HST GTO PARTICIPATION
 07/15/1991 – 08/31/2000 FY01: \$0 Total: \$925,196
Prin. Invest.: E J GROTH
Tech. Officer: GSFC/S SOBIESKI
CASE Category: 11 – ASTRONOMY

NAG 5 3364 **PRINCETON UNIV** **6569**
 ORIGIN AND EVOLUTION OF DUST IN ELLIPTICAL GALAXIES
 08/28/1996 – 08/31/2001 FY01: \$0 Total: \$151,000
Prin. Invest.: G R KNAPP
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 6494 **PRINCETON UNIV** **6570**
 REMOTE SENSING FOR LAND SURFACE HYDROLOGY: ACCURACY AND
 UNCERTAINTY ANALYSES
 10/27/1997 – 09/30/2001 FY01: \$0 Total: \$436,752
Prin. Invest.: E WOOD
Tech. Officer: GSFC/J DODGE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6511 **PRINCETON UNIV** **6571**
 "ESTIMATION OF FLOOD HAZARDS THROUGH REMOTE SENSING AND
 MODELING"
 11/04/1997 – 09/30/2001 FY01: \$0 Total: \$144,589
Prin. Invest.: E WOOD
Tech. Officer: GSFC/H V FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 6591 **PRINCETON UNIV** **6572**
 EVALUATION AND INTERCOMPARISON OF THREE-DIMENSIONAL GLOBAL
 MARINE CARBONCYCLE MODELS
 11/07/1997 – 12/31/2000 FY01: \$0 Total: \$172,804
Prin. Invest.: J L SARMIENTO
Tech. Officer: GSFC/G ASRAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6734 **PRINCETON UNIV** **6573**
 IMAGING THE CELESTIAL EQUATOR AT 12 MICRONS AND 2.5 MICRONS
 AND COMPARISON WITH FIVE COLOR
 12/16/1997 – 12/31/2001 FY01: \$0 Total: \$45,000
Prin. Invest.: G KNAPP
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 7016 **PRINCETON UNIV** **6574**
 ASTROMETRY OF GRAVITATIONAL LENSING WITH SIMBAD
 02/17/1998 – 02/14/2000 FY01: \$0 Total: \$92,522
Prin. Invest.: B PACZYNSKI
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 7030 **PRINCETON UNIV** **6575**
 INTERSTELLAR STUDIES - ATP
 02/17/1998 - 02/14/2002 FY01: \$0 Total: \$297,933
Prin. Invest.: B T DRAINE
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 7047 **PRINCETON UNIV** **6576**
 QUASAR ABSORPTION LINES AT LOW AND INTERMEDIATE REDSHIFTS - ATP
 02/19/1998 - 02/14/2001 FY01: \$0 Total: \$156,000
Prin. Invest.: J N BACHALL
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 7066 **PRINCETON UNIV** **6577**
 DYNAMICS OF THE GALAXY, GLOBULAR CLUSTERS, AND THE LOCAL GROUP - ATP
 02/26/1998 - 02/28/2002 FY01: \$0 Total: \$229,480
Prin. Invest.: S D TREMAINE
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 7154 **PRINCETON UNIV** **6578**
 FORMATION AND EVOLUTION OF GROUPS AND FILAMENTS - ATP
 03/16/1998 - 03/14/2002 FY01: \$0 Total: \$348,752
Prin. Invest.: D N SPERGEL
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 7297 **PRINCETON UNIV** **6579**
 A TERRESTRIAL WATER AND ENERGY BUDGET FOR THE BOREAS STUDY REGION SCALE USING FIELD MEASUREMENTS, R
 04/21/1998 - 04/30/2002 FY01: \$0 Total: \$103,503
Prin. Invest.: E F WOOD
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7310 **PRINCETON UNIV** **6580**
 LONG-TERM ORBITAL EVOLUTION IN PLANETARY SYSTEMS AND PROTOPLANETARY DISKS
 04/22/1998 - 04/30/2001 FY01: \$0 Total: \$217,000
Prin. Invest.: S D TREMAINE
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 7544 **PRINCETON UNIV** **6581**
 HYDROLOGY OF EXTREME FLOODS FOR THE UNITED STATES EAST OF THE ROCKYMOUNTAINS
 06/23/1998 - 09/30/2001 FY01: \$0 Total: \$246,097
Prin. Invest.: J A SMITH
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 7744 **PRINCETON UNIV** **6582**
 DEVELOPMENT AND EVALUATION OF RADAR DATA QUALITY CONTROL ALGORITHMS
 10/28/1998 - 10/31/2001 FY01: \$76,390 Total: \$254,471
Prin. Invest.: J A SMITH
Tech. Officer: GSFC/O W THIELE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 8084 **PRINCETON UNIV** **6583**
 PRIMARY AND SECONDARY ANISOTROPIES OF COSMIC MICRO WAVE BACKGROUND
 01/19/1999 - 02/28/2002 FY01: \$92,000 Total: \$270,664
Prin. Invest.: U SELJAK
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8365 **PRINCETON UNIV** **6584**
 STUDYING THE EVOLUTION OF X-RAY CLUSTERS OF GALAXIES USING LARGE-SCALE HIGH RESOLUTION COSMOLOGIC
 03/15/1999 - 03/14/2002 FY01: \$123,559 Total: \$363,066
Prin. Invest.: R CEN
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8385 **PRINCETON UNIV** **6585**
 EVOLUTION AND DYNAMICS OF PROTOSTELLAR DISKS
 03/03/1999 - 02/28/2002 FY01: \$40,000 Total: \$125,000
Prin. Invest.: J GOODMAN
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8676 **PRINCETON UNIV** **6586**
 ATMOSPHERIC AEROSOL EVOLUTION AND EXCHANGE
 07/08/1999 - 07/14/2002 FY01: \$0 Total: \$322,129
Prin. Invest.: L RUSSELL
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9274 **PRINCETON UNIV** **6587**
 EARLY IDENTIFICATION & INTERPRETATION OF QUASAR/ AGN MICROLENSING EVENT: PROBES OF ACCRETIONDISK
 03/15/2000 - 03/14/2002 FY01: \$91,000 Total: \$173,240
Prin. Invest.: E TURNER
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9284 **PRINCETON UNIV** **6588**
 FINDING THE BARYONS: MATCHING COSMOLOGICAL PREDICTIONS WITH THE X-RAY SKY
 04/17/2000 - 04/30/2002 FY01: \$99,674 Total: \$210,344
Prin. Invest.: J P OSTRIKER
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9414 **PRINCETON UNIV** **6589**
 UNDERSTANDING WATER, CLIMATE AND GLOBAL CHANGE: A GEWEX GLOBAL WATER AND ENERGY PATHFINDER DATA SET
 04/11/2000 - 04/14/2002 FY01: \$58,811 Total: \$95,448
Prin. Invest.: E WOOD
Tech. Officer: GSFC/J DODGE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9486 **PRINCETON UNIV** **6590**
 TERRESTRIAL HYDROLOGY & CLIMATE STUDIES USING EOS- ERA DATA
 04/17/2000 - 03/31/2002 FY01: \$92,619 Total: \$153,958
Prin. Invest.: E WOOD
Tech. Officer: GSFC/P HOUSER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9635 **PRINCETON UNIV** **6591**
 TMI SOIL MOISTURE PATHFINDER DATA STUDY
 06/05/2000 – 05/31/2002 FY01: \$40,003 Total: \$90,002
Prin. Invest.: E WOOD
Tech. Officer: GSFC/J DODGE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 9748 **PRINCETON UNIV** **6592**
 "SATELLITE ATTITUDE ESTIMATION WITH THE TWO STEP OPTIMAL ESTI-
 MATOR"
 07/14/2000 – 02/28/2002 FY01: \$0 Total: \$50,000
Prin. Invest.: N KASDIN
Tech. Officer: GSFC/R HARMAN
CASE Category: 41 – AERONAUTICAL ENGR

NAG 5 9810 **PRINCETON UNIV** **6593**
 REGIONAL CONTRIBUTION TO THE GLOBAL TROPOSPHERIC OZONE
 BUDGET-GLOBAL MODELING AND DATA ANALYSIS
 07/18/2000 – 07/14/2001 FY01: \$32,692 Total: \$61,844
Prin. Invest.: D L MAUZERALL
Tech. Officer: GSFC/P DECOLA
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 9891 **PRINCETON UNIV** **6594**
 USE OF TRMM DATA TO EVALUATE BENEFITS OF POST-2002 GLOBAL
 PRECIPITATION MISSION FOR LAND SURFACE HYD
 08/23/2000 – 08/31/2002 FY01: \$63,000 Total: \$126,000
Prin. Invest.: E F WOOD
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 10217 **PRINCETON UNIV** **6595**
 ENERGY TRANSPORT & DISSIPATION OF ELECTROMAGNETIC ION CYCLO-
 TRON WAVES IN THE MAGNETOSPHERE/IONOSPHER
 01/05/2001 – 02/07/2001 FY01: \$0 Total: \$0
Prin. Invest.: J R JOHNSON
Tech. Officer: GSFC/M MELLOTT
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10456 **PRINCETON UNIV** **6596**
 RESONANT & SECULAR ORBITAL DYNAMICS OF PLANETS, PLANETES-
 IMALS & SATELLITES
 02/21/2001 – 02/28/2002 FY01: \$60,000 Total: \$60,000
Prin. Invest.: S TREMAINE
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 10481 **PRINCETON UNIV** **6597**
 MICROWAVE ANISOTROPY PROBE (MAP) INVESTIGATION PHASE III
 COMPLETION & PHASE IV DATA ANALYSIS
 03/01/2001 – 07/31/2001 FY01: \$381,540 Total: \$381,540
Prin. Invest.: L PAGE
Tech. Officer: GSFC/C BENNET
CASE Category: 11 – ASTRONOMY

NAG 5 10811 **PRINCETON UNIV** **6598**
 INTERSTELLAR STUDIES OF DUST AND GAS (ATP 2000)
 04/30/2001 – 04/30/2002 FY01: \$60,000 Total: \$60,000
Prin. Invest.: B T DRAINE
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 10933 **PRINCETON UNIV** **6599**
 MODELING AND SIMULATION OF THE MAXIM PATHFINDER MISSION:
 PRECISION SPACECRAFT FORMATION CONTROL
 06/04/2001 – 10/31/2001 FY01: \$50,000 Total: \$50,000
Prin. Invest.: J KASDIN
Tech. Officer: GSFC/F L MARKLEY
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 5 11094 **PRINCETON UNIV** **6600**
 PARALLAXES OF RED GIANT STARS (ADP 2000)
 07/10/2001 – 07/14/2002 FY01: \$38,391 Total: \$38,391
Prin. Invest.: G R KNAPP
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 11111 **PRINCETON UNIV** **6601**
 LAND SURFACE MODELING STUDIES IN SUPPORT OF AQUA AMSR-E
 VALIDATION AQUA-0088-0029
 07/12/2001 – 08/31/2002 FY01: \$46,591 Total: \$46,591
Prin. Invest.: E F WOOD
Tech. Officer: GSFC/D STARR
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 11136 **PRINCETON UNIV** **6602**
 TESTING COSMOLOGICAL MODELS WITH QSO ABSORBERS (LTA 2000)
 07/20/2001 – 03/30/2002 FY01: \$88,745 Total: \$88,745
Prin. Invest.: T M TRIPP
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 11301 **PRINCETON UNIV** **6603**
 USING REMOTE SENSING AND OCEAN MEASUREMENTS TO CON TRAIN
 CARBON FLUXES IN THE SOUTHERN OCEAN
 08/31/2001 – 08/31/2003 FY01: \$155,253 Total: \$155,253
Prin. Invest.: M BENDER
Tech. Officer: GSFC/J MARRA
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 8 1368 **PRINCETON UNIV** **6604**
 ELECTROHYDRODYNAMICS OF SUSPENSIONS
 05/30/1997 – 11/30/2000 FY01: \$0 Total: \$389,000
Prin. Invest.: D SAVILLE
Tech. Officer: MSFC/D NOENER
CASE Category: 12 – CHEMISTRY

NAG 8 1517 **PRINCETON UNIV** **6605**
 TERRESTRIAL HYDROLOGY AND CLIMATE STUDIES USING EOS-ERA DATA
 (CATEGORY 2)
 05/07/1998 – 04/30/2002 FY01: \$0 Total: \$715,753
Prin. Invest.: E F WOOD
Tech. Officer: MSFC/J ARNOLD
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 8 1521 **PRINCETON UNIV** **6606**
 OROGRAPHIC RAINFALL IN THE APPALACHIAN REGION OF THE MISSIS-
 SIPPI RIVER BASIN
 05/15/1998 – 10/01/2001 FY01: \$0 Total: \$206,179
Prin. Invest.: J A SMITH
Tech. Officer: MSFC/J ARNOLD
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 30110 **PRINCETON UNIV** **6607**
 SPACE TELESCOPE IMAGING SPECTROGRAPH PROGRAM SUPPORT
 06/17/1987 – 09/30/2001 FY01: \$247,245 Total: \$1,114,245
Prin. Invest.: E JENKINS
Tech. Officer: GSFC/D VITAGLINO
CASE Category: 11 – ASTRONOMY

NAS 5 96021 **PRINCETON UNIV** **6608**
 MICROWAVE ANISOTROPY PROBE INVESTIGATION (PHASE I DEFINITION STUDY)
 06/28/1996 – 05/30/2001 FY01: \$465,566 Total: \$9,368,566
Prin. Invest.: D WILKINSON
Tech. Officer: GSFC/R CUDDAPAH
CASE Category: 11 – ASTRONOMY

NCC 1 01010 **PRINCETON UNIV** **6609**
 DEV OF A DESIGN METHODOLOGY FOR RECONFIGURABLE FLIGHT CONTROL SYSTEMS
 02/27/2001 – 02/28/2002 FY01: \$50,992 Total: \$50,992
Prin. Invest.: I A AKSAY
Tech. Officer: LARC/E J SIOCHI, LARC/T L ST. CLAIR
CASE Category: 12 – CHEMISTRY

NCC 3 670 **PRINCETON UNIV** **6610**
 STRUCTURE AND RESPONSE OF SPHERICAL DIFFUSION FLAMES
 02/08/1999 – 12/29/2002 FY01: \$128,750 Total: \$433,750
Prin. Invest.: C K LAW
Tech. Officer: GRC/K SACKSTEDER
CASE Category: 49 – ENGINEERING, OTHER

NCC 3 687 **PRINCETON UNIV** **6611**
 AERODYNAMICS AND CHEMICAL KINETICS OF PREMIXED FLAMES AT HIGH PRESSURE
 03/12/1999 – 01/03/2003 FY01: \$114,000 Total: \$339,000
Prin. Invest.: C K LAW
Tech. Officer: GRC/D SACKSTEDER
CASE Category: 49 – ENGINEERING, OTHER

NCC 3 735 **PRINCETON UNIV** **6612**
 SCIENTIFIC SUPPORT FOR A SPACE SHUTTLE DROPLET BURNING EXPERIMENT
 09/30/1999 – 08/18/2002 FY01: \$223,079 Total: \$502,248
Prin. Invest.: F L DRYER
Tech. Officer: GRC/D L URBAN
CASE Category: 46 – MECHANICAL ENGR

NGT 5 30113 **PRINCETON UNIV** **6613**
 CHANGE IN FOREST COVER OF NANG RONG, THAILAND: AN INTEGRATED PRGM OF LANDSCAPE ANALYSIS, EMPIRICAL S
 10/01/1997 – 08/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: S HUBBELL
Tech. Officer: GSFC/M WEI
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 30134 **PRINCETON UNIV** **6614**
 RESPONSE OF ENSO TO MODULATIONS IN TROPICAL CLIMATE/STUDENT: WITTENBERG
 09/04/1998 – 08/31/2001 FY01: \$0 Total: \$44,000
Prin. Invest.: G PHILANDER
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 30137 **PRINCETON UNIV** **6615**
 TRANSBOUNDARY AIR POLLUTION IN ASIA/STUDENT: HOLLOWAY
 09/04/1998 – 08/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: H LEVY, 11
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 30156 **PRINCETON UNIV** **6616**
 THE INFLUENCE OF THE TROPOSPHERE'S STATIC STABILITY ON CLIMATE-SENSITIVITY
 08/28/1998 – 08/31/2000 FY01: \$0 Total: \$34,900
Prin. Invest.: I M HELD, SCHNEIDER
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 30333 **PRINCETON UNIV** **6617**
 THE INTERACTION BETWEEN THE ABYSSAL CIRCULATION & THE WIND DRIVEN OCEAN DYNAMICS & EFFECTS ON THE CL
 08/16/2000 – 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: G PHILANDER
Tech. Officer: GSFC/M WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 30341 **PRINCETON UNIV** **6618**
 ELEPHANTS, FIRE & VEGETATION CHANGE IN SOUTHERN AFRICAN WOODLANDS/STUDENT: RICARDO HOLDO
 08/21/2000 – 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: A DOBSON
Tech. Officer: GSFC/M WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 30356 **PRINCETON UNIV** **6619**
 MODELING MARINE DENITRIFICATION & N₂ FIXATION STUDENT: CURTIS DEUTSCH
 08/24/2000 – 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: J SARMIENTO
Tech. Officer: GSFC/M WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 50033 **PRINCETON UNIV** **6620**
 MEASURING ANISOTROPY IN THE COSMIC MICROWAVE BACKGROUND RECEIVERS
 08/04/1997 – 07/31/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: L PAGE/MILLER
Tech. Officer: GSFC/A NURRIDIN
CASE Category: 41 – AERONAUTICAL ENGR

NGT 5 50193 **PRINCETON UNIV** **6621**
 EXPERIMENTAL & THEORETICAL STUDIES OF ANOMALOUS RESISTIVITY IN MAGNETIC RECONNECTION
 06/05/1998 – 06/30/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: M YAMADA
Tech. Officer: HQ/A NURRIDIN
CASE Category: 11 – ASTRONOMY

NGT 5 50333 **PRINCETON UNIV** **6622**
 ROLE OF GLOBAL SNOW COVER EXTENT ON CLIMATE VARIABILITY & PREDICTABILITY STUDENT: RADHIKA WIJETUNG
 08/17/2000 – 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: E F WOOD
Tech. Officer: GSFC/M WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 50356 PRINCETON UNIV 6623
 LITHIUM LORENTZ FORCE ACCELERATOR RESEARCH FOR HIGH POWER
 STEADY-STATE SPACE PROPULSION (STUDENT:
 05/23/2001 - 08/31/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: E CHOUERI
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50370 PRINCETON UNIV 6624
 OPTICALLY-TUNABLE COLLOIDAL CRYSTALLIZATION (STUDENT: W.
 RISTENPART)
 06/13/2001 - 08/31/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: D SAVILLE
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 3 2521 ROWAN UNIV 6625
 GRAVITATIONAL INFLUENCES ON FLAME PROPAGATION THROUGH NON
 UNIFORM PREMIXED GAS SYSTEMS
 01/10/2001 - 11/30/2001 FY01: \$10,745 Total: \$10,745
Prin. Invest.: D MARCHESE
Tech. Officer: GRC/K SACKSTEDER
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 6776 ROWAN UNIV 6626
 RESEARCH IN PLANETARY ASTRONOMY
 01/09/1998 - 06/30/2002 FY01: \$85,885 Total: \$246,728
Prin. Invest.: D KLASSEN
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 - ASTRONOMY

NAG 5 9593 ROWAN UNIV 6627
 FUNDING FOR PROFESSOR KAREN MAGEE-SAUER, DEPT OF CHEMISTRY
 & PHYSICS; PRODUCTION DATA PROCESSING
 06/07/2000 - 05/31/2001 FY01: \$0 Total: \$8,900
Prin. Invest.: K MAGEE-SAUER
Tech. Officer: GSFC/M J MUMMA
CASE Category: 13 - PHYSICS

NAG 5 11076 ROWAN UNIV 6628
 CLOUDS OF MARS-AN IRFT/MGS COMPARIION
 08/06/2001 - 08/14/2002 FY01: \$50,000 Total: \$50,000
Prin. Invest.: D R KLASSEN
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 - ASTRONOMY

NAG 1 2154 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6629
 SAGE II VALIDATION WITH A GLOBAL LIDAR NETWORK MY 1/3
 03/10/1999 - 12/31/2001 FY01: \$84,149 Total: \$253,933
Prin. Invest.: A ROBOCK
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 2182 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6630
 NANOCOMPOSITES BASED ON LIQUID CRYSTALLINE POLYMERS
 04/13/1999 - 10/31/2001 FY01: \$0 Total: \$115,001
Prin. Invest.: M JAFFE
Tech. Officer: LARC/N J JOHNSON, LARC/J W CONNELLE
CASE Category: 12 - CHEMISTRY

NAG 1 2311 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6631
 NIGHTTIME POLAR CLOUD PARAMETERS RETRIEVED FROM SATELLITE
 SOUNDNER AND IMAGE DATA
 06/15/2000 - 06/30/2001 FY01: \$39,724 Total: \$68,099
Prin. Invest.: J A FRANCIS
Prin. Invest.: NONE
Tech. Officer: LARC/P MINNIS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 2 1234 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6632
 SELF ADAPTIVE SOFTWARE FOR AUTOMATED DESIGN OF COM PLEX
 ENGINEERING SYSTEMS
 07/24/1998 - 12/31/2001 FY01: \$0 Total: \$788,238
Prin. Invest.: S AMAREL, T ELLMAN
Tech. Officer: ARC/M R LOWRY
CASE Category: 22 - COMPUTER SCIENCE

NAG 3 2350 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6633
 THE EFFECT OF GRAVITY ON THE MECHANICS OF FLUIDIZED BEDS
 03/16/2000 - 11/30/2003 FY01: \$76,000 Total: \$126,000
Prin. Invest.: D J GLASSER
Tech. Officer: GRC/B J MOTIL
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2589 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6634
 IN-SITU ULTRA-HIGH VACUUM SCANNING PROBE MICROSCOPY STUDIES
 OF THE POLYMER ANODE/LIPON INTERFACE
 04/17/2001 - 05/31/2002 FY01: \$50,000 Total: \$50,000
Prin. Invest.: D H GAROFALINI
Tech. Officer: GRC/N HAGEDORN
CASE Category: 13 - PHYSICS

NAG 5 3158 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6635
 GUARANTEED TIME OBSERVER: SPACE TELESCOPE IMAGING SPECTRO-
 GRAPH
 01/23/1996 - 09/30/2001 FY01: \$51,000 Total: \$615,000
Prin. Invest.: C L JOSEPH
Tech. Officer: GSFC/KRUEGER
CASE Category: 11 - ASTRONOMY

NAG 5 3432 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6636
 DETERMINING THE HUBBLE CONSTANT USING X-RAY, OPTIC IONS OF
 CLUSTER
 10/30/1996 - 09/30/2002 FY01: \$0 Total: \$638,401
Prin. Invest.: J P HUGHES
Tech. Officer: GSFC/R K OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 4327 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6637
 ISOTOPIC INVESTIGATIONS OF EXTRATERRESTRIAL MATERI
 04/11/1997 - 02/28/2002 FY01: \$70,000 Total: \$339,000
Prin. Invest.: D F HERZOG, NONE
Tech. Officer: GSFC/D NAVA
CASE Category: 11 - ASTRONOMY

NAG 5 4597 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6638
 TRANSIENT HEATING IN THE SOLAR ACCRETION DISK
 05/15/1997 - 02/28/2001 FY01: \$0 Total: \$190,000
Prin. Invest.: R H HEWINS
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 6011 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6639
 "NJ-NSCORT FOR BIOGENERATIVE LIFE SUPPORT SYSTEM
 07/23/1997 - 04/30/2001 FY01: \$760,000 Total: \$5,084,998
Prin. Invest.: H JANES, NONE
Tech. Officer: GSFC/G FOGLEMAN
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 5 6037 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6640
 BLACK HOLES AND GALAXY DYNAMICS
 10/08/1997 - 10/14/2001 FY01: \$119,000 Total: \$454,000
Prin. Invest.: D MERRITT
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 6420 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6641
 ROSAT HRI OBSERVATIONS OF SMC SNRS
 11/25/1997 - 10/31/2000 FY01: \$0 Total: \$53,718
Prin. Invest.: J HUGHES
Tech. Officer: GSFC/R PETRE
CASE Category: 22 - COMPUTER SCIENCE

NAG 5 6982 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6642
 REPRESENTING KEY PHYTOPLANKTON GROUPS IN OCEAN CARBON
 CYCLE MODELS
 03/23/1998 - 03/14/2001 FY01: \$0 Total: \$658,307
Prin. Invest.: P G FALKOWSKI
Tech. Officer: GSFC/J W CAMPBELL
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7015 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6643
 THEORETICAL ISSUES FOR INTERPRETING COSMIC MICROWAVE BACK-
 GROUND MAPS_ATP
 02/17/1998 - 04/30/2001 FY01: \$0 Total: \$100,333
Prin. Invest.: A B KOSOWSKI
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 7148 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6644
 UV SOLID STATE DETECTORS
 05/04/1998 - 04/14/2002 FY01: \$43,166 Total: \$301,004
Prin. Invest.: C L JOSEPH
Tech. Officer: GSFC/W WAGNER
CASE Category: 11 - ASTRONOMY

NAG 5 7437 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6645
 ESTABLISHING AND IMPROVING A TRACEABLE, TIME-DEPENDENT
 PRIMARY PRODUCTION ALGORITHM FOR GENERATING
 06/11/1998 - 07/14/2000 FY01: \$0 Total: \$306,822
Prin. Invest.: M J BEHRENFELD
Tech. Officer: GSFC/J CAMPBELL
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7564 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6646
 EVALUATION OF SNOW WATER EQUIVALENT ACROSS GRASSLAND
 REGIONS
 06/30/1998 - 06/30/2001 FY01: \$0 Total: \$115,143
Prin. Invest.: D ROBINSON
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 8213 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6647
 THE IMPACTS OF LAND-USE/LAND-COVER CHANGE IN AMAZONIA ON
 DROMETEOROLOGICAL PROCESS
 03/01/1999 - 02/28/2002 FY01: \$91,808 Total: \$300,000
Prin. Invest.: R AVISSAR
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8820 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6648
 IN SITU MICROANALYSIS OF TRANSITION ELEMENT OXIDATION STATES IN
 SOLAR SYSTEM MATERIALS
 09/07/1999 - 08/31/2000 FY01: \$0 Total: \$30,000
Prin. Invest.: J S DELANEY
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 9046 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6649
 ORIGIN AND EVOLUTION OF MASSIVE BLACK HOLES IN GALAXIES - (ATP
 99)
 03/06/2000 - 05/31/2002 FY01: \$95,370 Total: \$196,783
Prin. Invest.: D MERRITT
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9259 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6650
 SIMULATION AND ANALYSIS OF METEORITIC MATERIAL
 03/17/2000 - 02/28/2002 FY01: \$0 Total: \$109,000
Prin. Invest.: J BOYCE
Tech. Officer: GSFC/R HEWINS
CASE Category: 11 - ASTRONOMY

NAG 5 9340 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6651
 ATMOSPHERIC IRON FLUXES TO THE OCEAN: SEASONAL PATTERNS AND
 LINKAGE TO PHYTOPLANKTON BLOOMS
 04/11/2000 - 04/30/2002 FY01: \$93,217 Total: \$157,366
Prin. Invest.: Y GAO
Tech. Officer: GSFC/J MARRA
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9528 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6652
 IN SITU SYNCHROTRON MICROXANES MEASUREMENTS OF OXIDATION
 STATES OF SOLAR SYSTEM MATERIALS
 04/28/2000 - 04/30/2002 FY01: \$40,000 Total: \$109,000
Prin. Invest.: J S DELANEY
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 9746 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6653
 SUPPORT FOR THE NASA-HYDROMETEOROLOGY SCIENCE TEAM OFFICE
 07/11/2000 - 07/14/2001 FY01: \$0 Total: \$49,475
Prin. Invest.: R AVISSAR, NONE
Tech. Officer: GSFC/P R HOUSER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9787 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6654
 ESTABLISHING AND IMPROVING A TRACEABLE, TIME-DEPENDENT
 PRIMARY PRODUCTION ALGORITHM FOR GENERATING
 07/14/2000 - 07/14/2001 FY01: \$37,000 Total: \$74,000
Prin. Invest.: M J BEHRENFELD
Tech. Officer: GSFC/J MARRA
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9792 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6655
 VOLCANIC ERUPTIONS AND CLIMATE
 07/18/2000 – 07/31/2002 FY01: \$60,000 Total: \$120,000
Prin. Invest.: A ROBECK
Tech. Officer: GSFC/K BERGMAN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 9813 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6656
 ULTRAVIOLET TESTING OF GAN BASED UV CCD'S AS DESCR IBED IN THE
 PROPOSAL"GA CCD'S"
 07/19/2000 – 07/14/2001 FY01: \$0 Total: \$20,000
Prin. Invest.: D JOSEPH
Tech. Officer: GSFC/B MOTT
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 9847 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6657
 OCEAN CARBON FLUX: TRANSPORT & BURIAL WITHIN THE WESTERN &
 EASTERN U.S.COASTAL ZONES
 07/31/2000 – 07/31/2002 FY01: \$97,500 Total: \$191,250
Prin. Invest.: D HAIDVOGEL
Tech. Officer: GSFC/E LINSTROM
CASE Category: 39 – ENVIRONMENTALSCI, OTHER

NAG 5 9927 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6658
 XMM SPECTRO-IMAGERY OF TWO YOUNG EJECTA-DOMINATED SNRS:
 KEPLER & W49B
 09/07/2000 – 09/14/2001 FY01: \$0 Total: \$6,240
Prin. Invest.: J P HUGHES
Tech. Officer: GSFC/D F MUSHOTZKY
CASE Category: 11 – ASTRONOMY

NAG 5 9979 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6659
 CONFRONTING THE COMPLEXITY OF GALAXY CLUSTERS WITH LENSING,
 SZ, & XMM DATA
 09/12/2000 – 09/14/2002 FY01: \$16,400 Total: \$44,800
Prin. Invest.: J P HUGHES
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 – ASTRONOMY

NAG 5 9990 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6660
 XMM STUDIES OF A NEW SAMPLE OF YOUNG EJECTA-DOMINA TED
 GALACTIC SNRS
 09/14/2000 – 08/31/2002 FY01: \$16,061 Total: \$45,061
Prin. Invest.: J P HUGHES
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 – ASTRONOMY

NAG 5 10003 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6661
 BLACK HOLES IN EARLY TYPE GALAXIES: INCIDENCE, FOR MOTION AND
 EVOLUTION
 09/25/2000 – 08/31/2002 FY01: \$109,223 Total: \$216,501
Prin. Invest.: L FERRARESE
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 10110 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6662
 SPACE ASTROPHYSICS RESEARCH & ANALYSIS PROGRAM
 01/02/2001 – 12/31/2001 FY01: \$100,000 Total: \$100,000
Prin. Invest.: J SELLWOOD
Tech. Officer: GSFC/P CRANE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10357 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6663
 HOT-ELECTRON DETECTORS: RECORD SENSITIVITY DUE TO CONTROL-
 LABLE ELECTRON-PHONON COUPLING IN SUPERCOND
 02/01/2001 – 01/14/2002 FY01: \$182,594 Total: \$182,594
Prin. Invest.: M GERSHENSON
Tech. Officer: GSFC/C STAHLER
CASE Category: 13 – PHYSICS

NAG 5 10494 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6664
 SIMULATION & ANALYSIS OF METEORITIC MATERIAL
 02/28/2001 – 02/28/2002 FY01: \$120,000 Total: \$120,000
Prin. Invest.: R HEWINS
Tech. Officer: GSFC/J BOYCE
CASE Category: 12 – CHEMISTRY

NAG 5 10495 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6665
 TRANSIENT HEATING IN THE SOLAR ACCRETION DISK
 02/28/2001 – 02/28/2002 FY01: \$30,000 Total: \$30,000
Prin. Invest.: R HEWINS
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 10809 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6666
 REDUCTION OF BACKGROUND SIGNALS IN AIGAN OR GAN SOLID STATE
 DETECTORS
 04/26/2001 – 04/30/2002 FY01: \$32,000 Total: \$32,000
Prin. Invest.: C L JOSEPH
Tech. Officer: GSFC/W J WAGNER
CASE Category: 13 – PHYSICS

NAG 5 11045 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6667
 EFFECTS OF RADIATION ON DESORPTION OF ALKALIS FROM MINERAL &
 ICE SURFACES: RELATION TO ORIGINS OF AL
 06/13/2001 – 06/14/2002 FY01: \$80,000 Total: \$80,000
Prin. Invest.: T MADEY
Tech. Officer: GSFC/D J BOGAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 11345 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6668
 USING REMOTE SENSING AND OCEAN OXYGEN MEASUREMENTS TO
 CONSTRAIN CARBONFLUXES IN THE SOUTHERN OCEA
 09/10/2001 – 09/14/2004 FY01: \$78,581 Total: \$78,581
Prin. Invest.: P G FALKONSKI
Tech. Officer: GSFC/J MARRA
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 8 1513 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6669
 SPATIAL & TEMPORAL VAIABILITY OF SOIL MOISTURE & ITS RELATION TO
 WATER & ENERGY BALANCES IN A MONSN
 06/01/1998 – 05/31/2002 FY01: \$0 Total: \$339,524
Prin. Invest.: Y LIU, R AVISSAR
Tech. Officer: MSFC/J ARNOLD
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 8 1769 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6670
 RESEARCH ON STRESS-DRIVEN INSTABILITY ON HELIUM- 4 CRYSTALS.
 04/27/2001 – 03/31/2005 FY01: \$100,444 Total: \$100,444
Prin. Invest.: H KOJIMA
Tech. Officer: MSFC/D HUBBARD
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAGW 5226 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6671
 RESEARCH (BIDIRECTIONAL)
 10/07/1996 - 12/31/1999 FY01: \$0 Total: \$40,000
Prin. Invest.: R AVISSAR
Tech. Officer: HQ/A C JANETOS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 5 476 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6672
 COOPERATIVE RESEARCH IN REGIONAL & GLOBAL CLIMATE VARIABILITY.
 03/17/2000 - 03/31/2001 FY01: \$115,594 Total: \$657,181
Prin. Invest.: R AVISSAR
Tech. Officer: GSFC/R STOTHERS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 5 553 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6673
 RESEARCH IN REGIONAL & GLOBAL CLIMATE VARIABILITY
 04/24/2001 - 03/31/2002 FY01: \$700,000 Total: \$700,000
Prin. Invest.: A ROBOCK
Tech. Officer: GSFC/R B STOTHERS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NGT 5 30062 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6674
 ANTHROPOGENIC PERTURBATIONS TO THE CARBON CYCLE FR ESTI-
 MATED FROM NEW HISTORICAL LAND USE DATA
 09/10/1997 - 05/31/2001 FY01: \$0 Total: \$44,000
Prin. Invest.: D ROBINSON
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50229 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6675
 CROP MODELING FOR MULTIPLE CROP PRODUCTION AND CON TROL FOR
 ADVANCED LIFE SUPPORT SYSTEMS
 11/04/1998 - 08/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: K C TING, FLEISHER
Tech. Officer: HQ/A NURRIDIN
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NGT 5 50364 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6676
 DEVELOPMENT OF A HAPTIC INTERFACE FOR REMOTE OPERA TIONS IN
 SPACE, MEDICINE AND VIRTUAL REALITY, USI
 06/12/2001 - 08/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: C MAVROIDIS
Tech. Officer: GSFC/K BLADING
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50376 RUTGERS ST UNIV N.J.-INCLUDES PSCTWY 6677
 SPATIALLY RESOLVED X-RAY SPECTROSCOPY OF YOUNG SUPERNOVA
 REMNANTS/STUDENT: CARA RAKOWSKI
 07/05/2001 - 06/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: J P HUGHES
Tech. Officer: GSFC/L KALUZIENSKI
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 5 9359 RUTGERS STATE UNIV OF NJ COOK CAMPUS 6678
 A STUDY OF TELECONNECTIONS USING A NESTED GCM-RCM &
 SATELLITE OBSERVATIONS
 04/06/2000 - 06/30/2001 FY01: \$50,000 Total: \$100,000
Prin. Invest.: R AVISSAR
Tech. Officer: GSFC/K BERGMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9833 RUTGERS STATE UNIV OF NJ NEW BRUNSWICK 6679
 ULTRAVIOLET TESTIN OF GAN ARRAYS AS DESCRIBED IN THE PROPOSAL
 "GAN ULTRAVIOLET ARRAYS"
 07/26/2000 - 10/31/2002 FY01: \$24,504 Total: \$49,008
Prin. Invest.: D JOSEPH
Tech. Officer: GSFC/B MOTT
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 11244 RUTGERS STATE UNIV OF NJ NEW BRUNSWICK 6680
 GLOBAL MODELING AND ANALYSIS OF NONMETHANE HYDROCA RBONS,
 OXYGENATED HYDROCARBONS, AND ANTHROPOG
 08/16/2001 - 08/31/2004 FY01: \$81,221 Total: \$81,221
Prin. Invest.: Y WANG, NONE
Tech. Officer: GSFC/P DECOLA
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 11356 RUTGERS STATE UNIV OF NJ NEW BRUNSWICK 6681
 REPRESENTING KEY PHYTOPLANKTON GROUPS IN OCEAN CAR BON
 CYCLE MODELS
 09/25/2001 - 09/30/2004 FY01: \$124,826 Total: \$124,826
Prin. Invest.: P G FALKOWSKI
Tech. Officer: GSFC/J MARRA
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 9 1283 RUTGERS STATE UNIV OF NJ NEW BRUNSWICK 6682
 MOLECULAR CHARACTERIZATION OF EUBACTERIA IN THE BIOLOGICAL
 WATER PROCESSOR
 02/22/2001 - 12/31/2001 FY01: \$144,228 Total: \$144,228
Prin. Invest.: L KERKHOFF
Tech. Officer: JSC/K DAUES
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 9 1318 RUTGERS STATE UNIV OF NJ NEW BRUNSWICK 6683
 CHARACTERIZATION OF HYDROPONICALLY GROWN APOGEE WHEAT
 FLOUR
 06/18/2001 - 10/31/2001 FY01: \$16,100 Total: \$16,100
Prin. Invest.: J L KOKINI
Tech. Officer: JSC/V KLOERIS
CASE Category: 43 - CHEMICAL ENGR

NAG 9 1923 RUTGERS STATE UNIV OF NJ NEW BRUNSWICK 6684
 INNOVATIVE CO2 REMOVAL BIOREACTOR FOR AN ADVANCED MARS EVA
 SPACESUIT
 06/23/2000 - 06/23/2001 FY01: \$0 Total: \$99,997
Prin. Invest.: M C TRACHTENBERG, R M COWAN
Tech. Officer: JSC/G A THOMAS
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 99138 RUTGERS STATE UNIV OF NJ NEW BRUNSWICK 6685
 AIRBORNA (LIFT) METHOD FOR MEASURING PHOTOSYNTHETIC
 PERFORMANCE & PRIMARY PRODUCTIVITY.
 04/15/1999 - 04/15/2002 FY01: \$273,133 Total: \$984,393
Prin. Invest.: Z KOLBER
Tech. Officer: GSFC/J B HARTLEY
CASE Category: 61 - PSYCHOLOGY BIOLOGY

NCC 2 1259 RUTGERS STATE UNIV OF NJ NEW BRUNSWICK 6686
 INTEGRATING MULTIPLE SOURCES OF INFORMATION IN TEX T MINING
 04/20/2001 – 04/30/2002 FY01: \$80,000 Total: \$80,000
Prin. Invest.: H HIRSCH
Tech. Officer: ARC/M SCHWABACHER, ARC/J COUGHLAN
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 8971 STEVENS INST OF TECHNOLOGY 6687
 ELECTRON-IMPACT DISSOCIATION AND EXCITATION OF MOLECULES AND
 MOLECULAR IONS
 01/28/2000 – 12/31/2002 FY01: \$60,100 Total: \$116,714
Prin. Invest.: K BECKER
Tech. Officer: GSFC/D BOGAN
CASE Category: 11 – ASTRONOMY

NAG 9 1063 STEVENS INST OF TECHNOLOGY 6688
 INVESTIGATION OF AMBIENT PRESSURE
 01/05/1999 – 01/05/2002 FY01: \$153,288 Total: \$428,983
Prin. Invest.: G P KORFIATIS
Tech. Officer: JSC/J GRAF
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NAS 5 99238 STEVENS INST OF TECHNOLOGY 6689
 SENSOR INTERCOMPARISON & MERGER FOR BIOLOGICAL & INTERDIS-
 CIPLINARY STUDIES.
 09/01/1999 – 02/28/2001 FY01: \$0 Total: \$124,965
Prin. Invest.: K STAMNES, B CHEN
Tech. Officer: GSFC/C MCCLAIN
CASE Category: 33 – OCEANOGRAPHY

NGT 5 40041 STEVENS INST OF TECHNOLOGY 6690
 NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA
 01/24/1997 – 02/28/2001 FY01: \$0 Total: \$801,125
Prin. Invest.: S THANGAM
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 40096 STEVENS INST OF TECHNOLOGY 6691
 NEW JERSEY SPACE GRANT COLLEGE AND FELLOWSHIP PROG RAM
 02/28/2001 – 02/28/2002 FY01: \$206,125 Total: \$206,125
Prin. Invest.: S THANGAM
Tech. Officer: GSFC/D D DETROYE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 2 1367 UNIV OF MEDICINE AND DENTISTRY 6692
 MURINE DEVELOPMENT: CELLULAR & MOLECULAR ANALYSIS
 08/02/1999 – 07/14/2002 FY01: \$290,411 Total: \$705,316
Prin. Invest.: R S NOWAKOWSKI
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 9 1162 UNIV OF MEDICINE AND DENTISTRY 6693
 GLUKOSE KINETICS AND MUSCLE ATROPHY
 09/21/1999 – 09/22/2002 FY01: \$70,049 Total: \$148,027
Prin. Invest.: T P STEIN
Tech. Officer: JSC/C W LLOYD
CASE Category: 56 – MEDICL

NGT 5 50335 UNIV OF MEDICINE AND DENTISTRY 6694
 TRANSCRIPTIONAL REGULATION OF DIFFERENTIATING OSTE OBLASTS/
 STUDENT: RICHARD D'ALONZO
 10/16/2000 – 10/01/2001 FY01: \$22,000 Total: \$22,000
Prin. Invest.: N C PARTRIDGE
Tech. Officer: HQ/L SMITH
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 2 950 UNIV. OF MEDICINE & DENTISTRY-NJ. 6695
 REDUCED GRAVITY: EFFECTS IN THE DEVELOPING NERVOU S SYSTEM
 (DEFINITION PHASE)
 12/16/1994 – 11/30/1999 FY01: \$0 Total: \$739,162
Prin. Invest.: R S KOWAKOWSKI
Tech. Officer: ARC/W E HINDS, ARC/C M WINGET
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NEW MEXICO

NAG 9 1066 COLLEGE OF SANTA FE 6696
 MOBILE SCIENCE PROJECT PACE/ MSET
 01/07/1999 – 12/31/2001 FY01: \$100,000 Total: \$300,000
Prin. Invest.: B COLEMAN
Tech. Officer: JSC/L ARMENDARIZ
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10150 EASTERN NEW MEXICO UNIV – MAIN CAMPUS 6697
 NEW MEXICO CONNECTIONS: CONNECTING PEOPLE, PLACES AND
 RESEARCH
 12/08/2000 – 08/13/2001 FY01: \$64,956 Total: \$64,956
Prin. Invest.: S NUTTER
Tech. Officer: GSFC/P SAKIMOTO
CASE Category: 11 – ASTRONOMY

NAG 9 972 EASTERN NEW MEXICO UNIV – MAIN CAMPUS 6698
 SUMMER SMET CAMP FOR RURAL MINORITIES GIRLS
 09/24/1997 – 09/30/2000 FY01: -\$2,485 Total: \$72,515
Prin. Invest.: J MILLER
Tech. Officer: JSC/L ARMENDARIZ
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 9 1255 EASTERN NEW MEXICO UNIV – MAIN CAMPUS 6699
 SMET CAMP
 08/12/2000 – 09/30/2001 FY01: \$0 Total: \$25,000
Prin. Invest.: J MILLER
Tech. Officer: JSC/L ARMENDARIZ
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 8 1730 INST AMER INDIAN & AK NATIVE CULTURE & DEV 6700
 ESTABLISH A COMMUNITY BASED NATIVE AMERICAN AGRHIC ULTURE
 RESEARCH AND DEVELOPMENT CENTER
 06/22/2000 – 11/30/2001 FY01: \$0 Total: \$98,854
Prin. Invest.: S SULNAPrin. Invest.: NONE
Tech. Officer: MSFC/W LOVE
CASE Category: 55 – AGRICULTURE

NAG 5 6532 NEW MEXICO HIGHLANDS UNIV 6701
 ALLIANCE FOR NONLINEAR OPTICS
 12/07/1997 – 09/30/1999 FY01: \$0 Total: \$1,653,070
Prin. Invest.: R CLARK
Tech. Officer: GSFC/J MALONE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 8734	NEW MEXICO HIGHLANDS UNIV	6702	NAG 9 1374	NEW MEXICO HIGHLANDS UNIV	6711
CCD PHOTOMETRY OF THE VESTA FAMILY OF ASTEROIDS & AN ANALYSIS OF THEIR IMPACT ORIGIN			AISTEC PROJECT		
08/26/1999 - 07/31/2002	FY01: \$72,000	Total: \$217,699	08/09/2001 - 08/12/2002	FY01: \$100,000	Total: \$100,000
<i>Prin. Invest.:</i> D V RYAN			<i>Prin. Invest.:</i> J CAIBACA		
<i>Tech. Officer:</i> GSFC/T MORGAN			<i>Tech. Officer:</i> JSC/K KRISHEN, JSC/L ARMENDARIZ		
<i>CASE Category:</i> 11 - ASTRONOMY			<i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER		
NAG 8 1639	NEW MEXICO HIGHLANDS UNIV	6703	NAG 9 1375	NEW MEXICO HIGHLANDS UNIV	6712
DEVELOPMENT OF NOVEL THERMOSTABLE PHOTOREFRACTIVE POLYMERS AND SOL-GEL MATERIALS			HYDROCODE SIMULATIONS OF POROUS ASTEROID IMPACTS		
12/21/1999 - 12/20/2002	FY01: \$176,652	Total: \$290,006	08/09/2001 - 08/12/2002	FY01: \$25,000	Total: \$25,000
<i>Prin. Invest.:</i> R D CLARK, M SANGHADASA			<i>Prin. Invest.:</i> J R JUAREZ		
<i>Tech. Officer:</i> MSFC/B G PENN			<i>Tech. Officer:</i> JSC/L ARMENDARIZ		
<i>CASE Category:</i> 13 - PHYSICS			<i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE		
NAG 8 1708	NEW MEXICO HIGHLANDS UNIV	6704	NAG 9 1921	NEW MEXICO HIGHLANDS UNIV	6713
ALLIANCE FOR NONLINEAR OPTICS			EDUCATIONAL OUTREACH		
03/01/2000 - 02/28/2003	FY01: \$500,000	Total: \$1,000,000	05/23/2000 - 05/31/2001	FY01: \$0	Total: \$18,803
<i>Prin. Invest.:</i> R CLARK			<i>Prin. Invest.:</i> J R JUAREZ		
<i>Tech. Officer:</i> MSFC/W LOVE			<i>Tech. Officer:</i> JSC/L ARMENDARIZ		
<i>CASE Category:</i> 49 - ENGINEERING, OTHER			<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER		
NAG 9 1139	NEW MEXICO HIGHLANDS UNIV	6705	NAG 9 1922	NEW MEXICO HIGHLANDS UNIV	6714
AMERICAN INDIAN SCIENCE & TECH EDUCATION CONSORTIUM			HYDROCODE SIMULATIONS OF PAROUS ASTEROID IMPACTS		
08/31/1999 - 08/30/2001	FY01: \$0	Total: \$278,000	05/23/2000 - 05/31/2001	FY01: \$0	Total: \$24,997
<i>Prin. Invest.:</i> J C'DE BACA			<i>Prin. Invest.:</i> J R JUAREZ		
<i>Tech. Officer:</i> JSC/L M ARMEDARIZ			<i>Tech. Officer:</i> JSC/L ARMENDARIZ		
<i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER			<i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE		
NAG 9 1168	NEW MEXICO HIGHLANDS UNIV	6706	NGT 5 90069	NEW MEXICO HIGHLANDS UNIV	6715
JSC ASTROBIOLOGY INST			AMERICAN INDIAN SCIENCE AND TECHNOLOGY EDUCATION C		
09/28/1999 - 09/29/2001	FY01: \$0	Total: \$292,100	04/04/1997 - 11/30/2001	FY01: \$0	Total: \$4,400,822
<i>Prin. Invest.:</i> J C DEBACA, J R JUAREZ			<i>Prin. Invest.:</i> J C'DE BACA		
<i>Tech. Officer:</i> JSC/D S MCKAY, JSC/L ARMENDARIZ			<i>Tech. Officer:</i> GSFC/P SAKIMOTO		
<i>CASE Category:</i> 51 - BIOLOGY (EXCLUDING ENVIR)			<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER		
NAG 9 1195	NEW MEXICO HIGHLANDS UNIV	6707	NAG 5 4139	NEW MEXICO INST OF MINING & TECH	6716
REACHING OUT FOR SCIENCE, MATHEMATICS, & TECHNOLOGY STUDENTS			OBSERVATIONS & ANALYSIS OF ATMOSPHERIC HYDROXYL		
05/23/2000 - 05/31/2001	FY01: \$0	Total: \$19,528	03/17/1997 - 03/14/2001	FY01: \$0	Total: \$176,882
<i>Prin. Invest.:</i> J JUAREZ			<i>Prin. Invest.:</i> K MINSCHWANNER		
<i>Tech. Officer:</i> JSC/L ARMENDARIZ			<i>Tech. Officer:</i> GSFC/M J KURYLO		
<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER			<i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE		
NAG 9 1260	NEW MEXICO HIGHLANDS UNIV	6708	NAG 5 7109	NEW MEXICO INST OF MINING & TECH	6717
STUDIES ON THE IMPACT OF CERRO GRANDE & VIVEASH FOREST FIRES			GROUND BASED MEASUREMENTS OF TOTAL OZONE, CLOUD PROPERTIES, AND UVDOSES		
09/07/2000 - 09/30/2004	FY01: \$0	Total: \$151,095	03/25/1998 - 03/31/2002	FY01: \$0	Total: \$107,153
<i>Prin. Invest.:</i> J R JUAREZ			<i>Prin. Invest.:</i> D R MINSCHWANER		
<i>Tech. Officer:</i> JSC/G HENDERSEN			<i>Tech. Officer:</i> GSFC/J HERMAN		
<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER			<i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE		
NAG 9 1330	NEW MEXICO HIGHLANDS UNIV	6709	NAG 5 9328	NEW MEXICO INST OF MINING & TECH	6718
REACHING OUT FOR SCIENCE, MATHEMATICS & TECHNOLOGY STUDENTS			INFLUENCE OF LAND-ATMOSPHERE INTERACTIONS ON VARIABILITY OF THE NORTH AMERICAN MONSOON		
06/26/2001 - 06/26/2004	FY01: \$19,528	Total: \$19,528	04/03/2000 - 04/30/2002	FY01: \$81,513	Total: \$140,754
<i>Prin. Invest.:</i> J R JUAREZ			<i>Prin. Invest.:</i> E E SMALL		
<i>Tech. Officer:</i> JSC/L M ARMENDARIZ			<i>Tech. Officer:</i> GSFC/D WICKLAND		
<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER			<i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER		
NAG 9 1369	NEW MEXICO HIGHLANDS UNIV	6710	NAG 9 1106	NEW MEXICO INST OF MINING & TECH	6719
EDUCATIONAL OUTREACH			THE SEARCH FOR MICROBIAL BIOMARKERS IN TERRESTRIAL DEPOSITS		
07/30/2001 - 07/31/2004	FY01: \$19,000	Total: \$19,000	05/10/1999 - 05/09/2004	FY01: \$22,000	Total: \$66,000
<i>Prin. Invest.:</i> J JUAREZ			<i>Prin. Invest.:</i> T L KIEFT		
<i>Tech. Officer:</i> WFF/PBAKER, JSC/L M ARMENDARIZ			<i>Tech. Officer:</i> JSC/F K GIBSON		
<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER			<i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER		

NGT 5 30169 NEW MEXICO INST OF MINING & TECH 6720
 COMBINED SIMULATION OF ALPINE GLACIERS AND CLOSED- BASIN
 LAKES: THE KEY TO DETERMINING THE LONG-TERM
 09/01/1998 - 08/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: F M PHILLIPS, PLUMMER
Tech. Officer: GSFC/M Y WEI
CASE Category: 11 - ASTRONOMY

NAG 1 1868 NEW MEXICO STATE UNIV - LAS CRUCES 6721
 ACTIVE CONTROL OF AERODYNAMIC NOISE SOURCES MY 1/3
 09/20/1996 - 11/01/2000 FY01: \$0 Total: \$281,474
Prin. Invest.: G A REYNOLDS
Tech. Officer: LARC/G S JONES
CASE Category: 41 - AERONAUTICAL ENGR

NAG 2 1334 NEW MEXICO STATE UNIV - LAS CRUCES 6722
 XENOPUS INNER EAR ORGAN INFRMATION IN AN ALTERED G RAVITY ENVI-
 RONMENT
 07/08/1999 - 06/30/2002 FY01: \$99,920 Total: \$299,141
Prin. Invest.: E E SERRANO
Tech. Officer: ARC/C E WADE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 2 6007 NEW MEXICO STATE UNIV - LAS CRUCES 6723
 THEORETICAL & OBSERVATIONAL STUDIES OF SOLAR & EXT RA SOLAR
 PLANETARY ATMOSPHERES
 10/16/1996 - 06/30/2001 FY01: \$0 Total: \$288,379
Prin. Invest.: M MARLEY
Tech. Officer: ARC/C P MCKAY, ARC/A J HATCH
CASE Category: 11 - ASTRONOMY

NAG 2 6030 NEW MEXICO STATE UNIV - LAS CRUCES 6724
 CAREER OPPORTUNITES IN MATHEMATICS, ENGINEERING, T ECHNOLOGY,
 & SCIENCE (COMETS) PROGRAMS
 03/09/1999 - 03/31/2002 FY01: \$99,000 Total: \$299,001
Prin. Invest.: G V GARCIA
Tech. Officer: ARC/B J COLLINS, ARC/G S LEE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 3842 NEW MEXICO STATE UNIV - LAS CRUCES 6725
 MODELLING X-RAY CLUSTERS: EVOLUTION AND REALISTIC
 02/25/1997 - 02/28/2001 FY01: \$0 Total: \$299,540
Prin. Invest.: A KLYPIN
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 4987 NEW MEXICO STATE UNIV - LAS CRUCES 6726
 MODEL ATMOSPHERES AND SPECTRA FOR EXTRASOLAR GIANT
 06/26/1997 - 06/14/2001 FY01: \$0 Total: \$127,500
Prin. Invest.: D MARLEY
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 5060 NEW MEXICO STATE UNIV - LAS CRUCES 6727
 SEARCHING FOR ANTIMATTER AND COSMIC RAY STUDIES USING BESS
 05/01/1996 - 05/31/2000 FY01: \$0 Total: \$88,318
Prin. Invest.: S J STOCHAJ
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/B A MERRITT
CASE Category: 13 - PHYSICS

NAG 5 5068 NEW MEXICO STATE UNIV - LAS CRUCES 6728
 WIZARD-RELATED BALLOON PROGRAM FUNDING FOR THE FIRST YEAR
 OF THE GRANT
 05/03/1996 - 05/31/2000 FY01: -\$1,839 Total: \$932,832
Prin. Invest.: S J STOCHAJ
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/B A MERRITT
CASE Category: 13 - PHYSICS

NAG 5 5159 NEW MEXICO STATE UNIV - LAS CRUCES 6729
 AN IMAGING SILICON CALORIMETER FOR USE ON ACCESS INCREMENTAL
 FUNDING FOR FIRST YEAR OF GRANT
 03/26/1998 - 06/30/2001 FY01: \$0 Total: \$209,000
Prin. Invest.: S J STOCHAJ
Tech. Officer: GSFC/B A MERRITT/
CASE Category: 11 - ASTRONOMY

NAG 5 5226 NEW MEXICO STATE UNIV - LAS CRUCES 6730
 FIRST YEAR FUNDING FOR NAG5-5226
 07/06/1999 - 12/31/2001 FY01: \$143,000 Total: \$428,000
Prin. Invest.: S J STOCHAJ
Tech. Officer: WSTF/B A MERRITT
CASE Category: 13 - PHYSICS

NAG 5 6897 NEW MEXICO STATE UNIV - LAS CRUCES 6731
 EFFECTS OF RHEOLOGY ON THE DYNAMICS AND EVOLUTION OF MARS
 AND VENUS
 01/21/1998 - 12/31/2000 FY01: \$0 Total: \$92,577
Prin. Invest.: V SOLOMATOV
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 7520 NEW MEXICO STATE UNIV - LAS CRUCES 6732
 CENTER FOR TELEMETERING AND TELECOMMUNICATION SYST EMS
 07/28/1998 - 04/30/2000 FY01: \$0 Total: \$1,344,000
Prin. Invest.: S HORAN
Tech. Officer: GSFC/W MILLER
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 7524 NEW MEXICO STATE UNIV - LAS CRUCES 6733
 TRANSPORTATION OF ENERGETIC PARTICLES IN THE GALAX Y -
 APPROVED UNDERNRA 97-OSS-12
 06/09/1998 - 06/14/2002 FY01: \$10,951 Total: \$34,173
Prin. Invest.: W R WEBBER
Tech. Officer: GSFC/F C JONES
CASE Category: 11 - ASTRONOMY

NAG 5 7795 NEW MEXICO STATE UNIV - LAS CRUCES 6734
 A PROPOSAL TO ASSIST IN THE INTERPRETATION OF DATA FROM THE
 COSMIC RAY ISOTOPE SPECTROMETER EXPERIM
 12/10/1998 - 12/31/2001 FY01: \$40,698 Total: \$117,422
Prin. Invest.: D R WEBBER
Tech. Officer: GSFC/D C LING
CASE Category: 11 - ASTRONOMY

NAG 5 7904 NEW MEXICO STATE UNIV - LAS CRUCES 6735
 ADVANCED IR IMAGING OF SATURN
 12/03/1998 - 11/30/2002 FY01: \$59,800 Total: \$160,726
Prin. Invest.: D J CHANOVER
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 - ASTRONOMY

NAG 5 8242 NEW MEXICO STATE UNIV - LAS CRUCES 6736
 TESTING INFLATION AND DARK MATTER WITH NEW DATA, M ODELS, AND
 METHODS(ATP98)
 02/19/1999 - 02/28/2002 FY01: \$24,762 Total: \$67,392
Prin. Invest.: A KLYPIN
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8803 NEW MEXICO STATE UNIV - LAS CRUCES 6737
 EFFECTS OF RHEOLOGY ON THE DYNAMICS AND THERMAL EVOLUTION
 OF MARS AND VENUS
 01/06/2000 - 01/14/2002 FY01: \$48,000 Total: \$93,600
Prin. Invest.: V SOLOMATOV
Tech. Officer: GSFC/J GRANT
CASE Category: 13 - PHYSICS

NAG 5 8919 NEW MEXICO STATE UNIV - LAS CRUCES 6738
 MODEL ATMOSPHERES AND SPECTRA FOR EXTRASOLAR GIANT PLANETS
 AND BROWNDWARFS
 01/21/2000 - 06/14/2002 FY01: \$77,300 Total: \$148,515
Prin. Invest.: M MARLEY
Tech. Officer: GSFC/D BOGAN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9273 NEW MEXICO STATE UNIV - LAS CRUCES 6739
 MODEL ATMOSPHERES AND SPECTRA OF THE L-DWARFS (ATP 99)
 03/15/2000 - 03/14/2002 FY01: \$50,184 Total: \$86,127
Prin. Invest.: M S MARLEY
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9323 NEW MEXICO STATE UNIV - LAS CRUCES 6740
 "THE CENTER FOR SPACE TELEMETERING AND TELECOMMUNICATIONS
 SYSTEMS", AT THE NEW MEXICO STATE UNIVER
 03/31/2000 - 04/30/2002 FY01: \$524,000 Total: \$1,060,000
Prin. Invest.: S HORAN
Tech. Officer: GSFC/W H MILLER
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 10578 NEW MEXICO STATE UNIV - LAS CRUCES 6741
 IMPACTS AND THE THERMAL EVOLUTION OF MARS
 03/19/2001 - 02/28/2002 FY01: \$30,000 Total: \$30,000
Prin. Invest.: V SOLOMATOV
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 11164 NEW MEXICO STATE UNIV - LAS CRUCES 6742
 DETERMINATION OF MARTIAN POLAR DUST FLUX FROM TES OPACITY
 OBSERVATIONS
 08/06/2001 - 08/14/2003 FY01: \$22,000 Total: \$22,000
Prin. Invest.: J R MURPHY
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 11311 NEW MEXICO STATE UNIV - LAS CRUCES 6743
 NMSU PARTICIPATORY PROJECT IN MESSENGER EXPLORATION AND
 DEVELOPMENT OF STUDENT SCIENCE
 09/07/2001 - 09/14/2002 FY01: \$30,000 Total: \$30,000
Prin. Invest.: H BAPTISTE
Tech. Officer: GSFC/J HARRINGTON
CASE Category: 11 - ASTRONOMY

NAG 8 1710 NEW MEXICO STATE UNIV - LAS CRUCES 6744
 NANOMETER LASER SPECTROSCOPY USING FRACTAL MEDIA
 03/08/2000 - 03/07/2003 FY01: \$99,997 Total: \$199,995
Prin. Invest.: C YING
Tech. Officer: MSFC/W LOVE
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 9 1291 NEW MEXICO STATE UNIV - LAS CRUCES 6745
 STUDY TOWARD A HAND HELD VOLATILE ORGANIC ANALYZER FOR MARS
 MISSION
 04/19/2001 - 12/31/2002 FY01: \$202,180 Total: \$202,180
Prin. Invest.: G A EICEMAN
Tech. Officer: JSC/D M RUSSO
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 98009 NEW MEXICO STATE UNIV - LAS CRUCES 6746
 BALLOON SERVICES
 02/17/1998 - 02/28/2003 FY01: \$14,645,312 Total: \$55,687,659
Prin. Invest.: N APPLICABLE
Tech. Officer: WFF/R S NOCK, WFF/B A MERRITT
CASE Category: 41 - AERONAUTICAL ENGR

NCC 5 422 NEW MEXICO STATE UNIV - LAS CRUCES 6747
 SIMULATIONS OF EXTENSIVE AIRHOWERS USING BEOWULF- CLASS
 SYSTEMS
 09/30/1999 - 08/31/2001 FY01: \$3,777 Total: \$138,230
Prin. Invest.: S STOCHAJ
Tech. Officer: GSFC/R E STREITMATTER
CASE Category: 22 - COMPUTER SCIENCE

NCC 5 466 NEW MEXICO STATE UNIV - LAS CRUCES 6748
 MATHEMATICS AND SCIENCE EDUCATORS FOR THE FUTURE
 03/02/2000 - 02/28/2002 FY01: \$148,386 Total: \$340,144
Prin. Invest.: H BAPTISTE
Tech. Officer: GSFC/B WHITE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40061 NEW MEXICO STATE UNIV - LAS CRUCES 6749
 TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE
 AND FELLOWSHIP PROGRAM.
 03/04/1997 - 01/31/2002 FY01: \$10,000 Total: \$1,968,000
Prin. Invest.: P HYNES
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40087 NEW MEXICO STATE UNIV - LAS CRUCES 6750
 NEW MEXICO SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
 02/16/2001 - 02/14/2002 FY01: \$475,000 Total: \$475,000
Prin. Invest.: P HYNES
Tech. Officer: GSFC/D D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50117 NEW MEXICO STATE UNIV - LAS CRUCES 6751
 DIRECT SOLUTION OF LARGE, SPARSE SYSTEMS OF EQUATIONS
 09/06/1997 - 06/30/2000 FY01: -\$9,023 Total: \$55,477
Prin. Invest.: S CASTILLO
Tech. Officer: GSFC/A NURRIDIN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10143 SOUTHWESTERN INDIAN POLYTECHNIC INST 6752
 STARS ON EARTH, PROVIDING UNDERREPRESENTED NEW MEXICO HIGH SCHOOL STUDENTS WITH RESEARCH EXPER
 01/18/2001 - 12/31/2001 FY01: \$160,000 Total: \$160,000
Prin. Invest.: C L ABEITA
Tech. Officer: GSFC/P SAKIMOTO
CASE Category: 11 - ASTRONOMY

NAG 9 1312 UNIV OF ALBUQUERQUE 6753
 NASA TRAINING PROJECT
 09/24/2001 - 09/30/2004 FY01: \$450,200 Total: \$450,200
Prin. Invest.: R A LAFARGE
Tech. Officer: JSC/LM ARMENDARIZ
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 1 2018 UNIV OF NEW MEXICO-ALBUQUERQUE 6754
 SIMULATION OF FLOW CONTROL USING DEFORMABLE SURFACES
 03/17/1998 - 03/16/2001 FY01: \$1 Total: \$299,945
Prin. Invest.: C R TRUMAN
Tech. Officer: LARC/R D JOSLIN
CASE Category: 41 - AERONAUTICAL ENGR

NAG 2 1437 UNIV OF NEW MEXICO-ALBUQUERQUE 6755
 CHARACTERIZATION & ANALYSIS OF ADVANCED THERMAL PROTECTION MATERIALS
 09/13/2000 - 08/14/2002 FY01: \$0 Total: \$59,996
Prin. Invest.: R E LOEHMAN
Tech. Officer: ARC/D T ELLERBY, ARC/S M JOHNSON
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 2 1480 UNIV OF NEW MEXICO-ALBUQUERQUE 6756
 NASA GROUP UNIV RESEARCH CENTER SECOND FIVE YEARS
 05/01/2001 - 04/30/2002 FY01: \$760,000 Total: \$760,000
Prin. Invest.: P DORATO
Tech. Officer: ARC/B J COLLINS, ARC/A R GROSS
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 2 1516 UNIV OF NEW MEXICO-ALBUQUERQUE 6757
 CHARACTERIZATION AND ANALYSIS OF ULTRAHIGH TEMPERATURE CERAMICS
 08/15/2001 - 07/31/2002 FY01: \$30,000 Total: \$30,000
Prin. Invest.: R E LOEHMAN
Tech. Officer: ARC/D ELLERBY, ARC/S JOHNSON
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 3 1976 UNIV OF NEW MEXICO-ALBUQUERQUE 6758
 NEW PHENOMENA IN STRONGLY COUNTERFLOWING HE-II
 10/22/1996 - 09/30/2002 FY01: \$89,000 Total: \$354,000
Prin. Invest.: S T BOYD, R V DUNCAN, M J ADVIAANS
Tech. Officer: GRC/B S SINGH
CASE Category: 13 - PHYSICS

NAG 3 2322 UNIV OF NEW MEXICO-ALBUQUERQUE 6759
 ACCURATE BOUNDARY CONDITIONS FOR COMPUTATIONAL AERODYNAMICS
 01/18/2000 - 01/03/2001 FY01: \$0 Total: \$86,532
Prin. Invest.: D HAGSTROM
Tech. Officer: GRC/J GOODRICH
CASE Category: 21 - MATHEMATICS

NAG 3 2543 UNIV OF NEW MEXICO-ALBUQUERQUE 6760
 HIGH EFFICIENCY THERMOELECTRIC RADIOISOTOPE POWER SYSTEMS
 02/15/2001 - 12/31/2003 FY01: \$102,000 Total: \$102,000
Prin. Invest.: M EL-GENK
Tech. Officer: GRC/R L CATALDO
CASE Category: 45 - ELECTRICAL ENGR

NAG 3 2626 UNIV OF NEW MEXICO-ALBUQUERQUE 6761
 EXPERIMENTS WITH BOUNDARY CONDITIONS FOR JET FLOW SIMULATIONS
 06/01/2001 - 04/30/2002 FY01: \$6,943 Total: \$6,943
Prin. Invest.: T HAGSTROM
Tech. Officer: GRC/J GOODRICH
CASE Category: 41 - AERONAUTICAL ENGR

NAG 5 4441 UNIV OF NEW MEXICO-ALBUQUERQUE 6762
 PETROLOGY OF PRESOLAR DUST AND ALTERATION IN CHONDRITES
 04/28/1997 - 03/31/2002 FY01: \$121,000 Total: \$559,000
Prin. Invest.: D J RIETMEIJER
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 4619 UNIV OF NEW MEXICO-ALBUQUERQUE 6763
 METEORITES AND SMALL PRIMITIVE SOLAR SYSTEM BODIES
 05/20/1997 - 05/14/2001 FY01: \$0 Total: \$100,000
Prin. Invest.: D J BREARLEY
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 4935 UNIV OF NEW MEXICO-ALBUQUERQUE 6764
 MICROSTRUCTURAL STUDIES BEARING ON THE ORIGIN OF CARBON ASSOCIATED MINERALS IN MARTIAN METEORITE ALH 8400
 06/23/1997 - 06/30/2000 FY01: \$0 Total: \$78,000
Prin. Invest.: A J BREARLEY
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 6739 UNIV OF NEW MEXICO-ALBUQUERQUE 6765
 THE X-RAY PROPERTIES OF RICH CLUSTERS FROM Z=0-0.2 USING THE ROSAT ALL-SKY SURVEY
 12/19/1997 - 06/30/2000 FY01: -\$28,071 Total: \$131,969
Prin. Invest.: M LEDLOW
Prin. Invest.: NONE
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 6999 UNIV OF NEW MEXICO-ALBUQUERQUE 6766
 RIPARIAN ECOSYSTEM RESTORATION: EFFECTS OF FLOODING AND VEGETATION TYPE ON ANNUAL EVAPOTRANSPIRATION
 02/17/1998 - 02/14/2002 FY01: \$0 Total: \$700,000
Prin. Invest.: C N DAHM
Tech. Officer: GSFC/A C JANETOS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7006 UNIV OF NEW MEXICO-ALBUQUERQUE 6767
 GRANT TITLE: "HIGH PERFORMANCE IMAGE PROCESSOR FOR SPACE" GSFC#5-3358.
 02/17/1998 - 04/14/2001 FY01: \$0 Total: \$325,000
Prin. Invest.: G MAKI
Tech. Officer: GSFC/W H MILLER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 7360 UNIV OF NEW MEXICO-ALBUQUERQUE 6768
 TITLE: "CULPRIT". GSFC CONTROL #5-3394, (4/1/98 THRU 9/30/98) FIRST YEAR FUNDS FOR THE UNSOLICIT
 05/15/1998 - 05/14/2001 FY01: \$50,835 Total: \$1,248,699
 Prin. Invest.: G MAKI
 Tech. Officer: GSFC/W H MILLER
 CASE Category: 45 - ELECTRICAL ENGR

NAG 5 8454 UNIV OF NEW MEXICO-ALBUQUERQUE 6769
 HIGH PERFORMANCE DATA COMPRESSION VLSI ARCHITECTURE; GSFC CONTROLNO. 3474
 04/20/1999 - 04/30/2002 FY01: \$0 Total: \$460,000
 Prin. Invest.: G MAKI
 Tech. Officer: GSFC/W H MILLER
 CASE Category: 49 - ENGINEERING, OTHER

NAG 5 8804 UNIV OF NEW MEXICO-ALBUQUERQUE 6770
 MARTIN IMPACT CRATER HYDROTHERMAL SYSTEMS, CLUES FROM THE LONAR CRATER, INDIA.
 01/06/2000 - 01/14/2002 FY01: \$25,100 Total: \$48,945
 Prin. Invest.: H NEWSOM
 Tech. Officer: GSFC/J GRANT
 CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 8821 UNIV OF NEW MEXICO-ALBUQUERQUE 6771
 BIOMIMETIC SELF-ASSEMBLY OF HARDENED (NACRE-LIKE) COMPOSITE COATINGS FOR TRANSHAB
 09/21/1999 - 08/31/2002 FY01: \$242,564 Total: \$492,748
 Prin. Invest.: J BRINKER
 Tech. Officer: GSFC/R CROUCH
 CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9152 UNIV OF NEW MEXICO-ALBUQUERQUE 6772
 ULTRA-LOW POWER RADIATION TOLERANT CMOS VLSI
 03/07/2000 - 03/14/2001 FY01: \$0 Total: \$1,237,600
 Prin. Invest.: G MAKI
 Tech. Officer: GSFC/W H MILLER
 CASE Category: 49 - ENGINEERING, OTHER

NAG 5 9402 UNIV OF NEW MEXICO-ALBUQUERQUE 6773
 "BIT PLANE ENCODER/DECODER FOR HPDC", FOR THE UNIVERSITY OF NEW MEXICO, CONTROL #5-3524.
 04/25/2000 - 04/14/2002 FY01: \$420,000 Total: \$720,000
 Prin. Invest.: G MAKI Prin. Invest.: NONE
 Tech. Officer: GSFC/W H MILLER
 CASE Category: 49 - ENGINEERING, OTHER

NAG 5 9463 UNIV OF NEW MEXICO-ALBUQUERQUE 6774
 MICROBEAM STUDIES OF PLANETARY MATERIALS
 04/18/2000 - 02/14/2003 FY01: \$283,800 Total: \$516,800
 Prin. Invest.: J J PAPIKE
 Tech. Officer: GSFC/J BOYCE
 CASE Category: 11 - ASTRONOMY

NAG 5 9469 UNIV OF NEW MEXICO-ALBUQUERQUE 6775
 RECONFIGURABLE DATA PATH PROCESSOR
 04/17/2000 - 04/14/2002 FY01: \$270,000 Total: \$510,000
 Prin. Invest.: G DONOHOE
 Tech. Officer: GSFC/P YEH
 CASE Category: 49 - ENGINEERING, OTHER

NAG 5 9704 UNIV OF NEW MEXICO-ALBUQUERQUE 6776
 SOFTWARE DEVELOPMENT ENVIRONMENT FOR A RECONFIGURABLE PROCESSOR
 06/22/2000 - 07/31/2002 FY01: \$223,010 Total: \$483,010
 Prin. Invest.: G W DONOHOE
 Tech. Officer: GSFC/W H MILLER
 CASE Category: 49 - ENGINEERING, OTHER

NAG 5 9798 UNIV OF NEW MEXICO-ALBUQUERQUE 6777
 FORMATION AND ALTERATION HISTORIES OF CHONDRITIC MATERIAL
 07/13/2000 - 06/30/2002 FY01: \$65,000 Total: \$125,000
 Prin. Invest.: A BREARLEY
 Tech. Officer: GSFC/J BOYCE
 CASE Category: 11 - ASTRONOMY

NAG 5 9993 UNIV OF NEW MEXICO-ALBUQUERQUE 6778
 VLSI ARCHITECTURE FOR 8PSK-TRELLIS CODED MODULATION
 09/14/2000 - 09/14/2001 FY01: \$30,000 Total: \$55,000
 Prin. Invest.: G K MAKI
 Tech. Officer: GSFC/W H MILLER
 CASE Category: 49 - ENGINEERING, OTHER

NAG 5 10337 UNIV OF NEW MEXICO-ALBUQUERQUE 6779
 "ULTRA-LOW POWER RADIATION TOLERANT CMOS VLSI", RENEWAL OF GRANT NAG5-9152, PROPOSAL CONTROL #5-35
 02/07/2001 - 03/14/2002 FY01: \$995,760 Total: \$995,760
 Prin. Invest.: G K MAKI
 Tech. Officer: GSFC/W H MILLER
 CASE Category: 49 - ENGINEERING, OTHER

NAG 5 10359 UNIV OF NEW MEXICO-ALBUQUERQUE 6780
 NEUTRON AND HIGH ENERGY PARTICLE DETECTION WITH CRYOGENICS CALORIMETERS
 02/01/2001 - 01/14/2002 FY01: \$132,997 Total: \$132,997
 Prin. Invest.: S BOYD
 Tech. Officer: GSFC/C STAHL
 CASE Category: 13 - PHYSICS

NAG 5 10372 UNIV OF NEW MEXICO-ALBUQUERQUE 6781
 SEMICONDUCTOR- RING -LASER-BASED ROTATION SENSORS PROPOSAL #293.
 02/15/2001 - 01/14/2002 FY01: \$326,882 Total: \$326,882
 Prin. Invest.: M OSINSKI
 Tech. Officer: GSFC/J GAMBINO
 CASE Category: 41 - AERONAUTICAL ENGR

NAG 5 10373 UNIV OF NEW MEXICO-ALBUQUERQUE 6782
 SOLID STATE OPTICAL REFRIGERATORS FOR SPACE MISSIONS, PROPOSAL #214
 03/27/2001 - 03/14/2002 FY01: \$300,000 Total: \$300,000
 Prin. Invest.: R I EPSTEIN
 Tech. Officer: GSFC/E R CANAVAN
 CASE Category: 13 - PHYSICS

NAG 5 10918 UNIV OF NEW MEXICO-ALBUQUERQUE 6783
 HELIOSEISMIC METROLOGY
 05/14/2001 - 05/31/2002 FY01: \$114,667 Total: \$114,667
 Prin. Invest.: S JEFFERIES
 Tech. Officer: GSFC/J GURMAN
 CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 10960 UNIV OF NEW MEXICO-ALBUQUERQUE 6784
 HIGH PERFORMANCE ULTRA-LOW POWER RADIATION TOLERANT CMOS
 VLSI
 06/11/2001 - 06/14/2002 FY01: \$407,038 Total: \$407,038
Prin. Invest.: G K MAKI
Tech. Officer: GSFC/P YEP
CASE Category: 49 - ENGINEERING, OTHER

NAG 8 1664 UNIV OF NEW MEXICO-ALBUQUERQUE 6785
 RESEARCH
 06/01/2000 - 05/31/2003 FY01: \$100,000 Total: \$200,000
Prin. Invest.: M OSINSKI
Tech. Officer: MSFC/M D WATSON
CASE Category: 46 - MECHANICAL ENGR

NAG 8 1758 UNIV OF NEW MEXICO-ALBUQUERQUE 6786
 BASIC AWARD FOR RESEARCH STUDY ENTITLED, "SURFACE PHYSICS
 WITH HELIUM CRYSTALS IN MICROGRAVITY"
 04/24/2001 - 04/29/2003 FY01: \$80,000 Total: \$80,000
Prin. Invest.: A V BABKIN
Tech. Officer: MSFC/D HUBBARD
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 9 995 UNIV OF NEW MEXICO-ALBUQUERQUE 6787
 DESIGN & DEVELOP INTELLIGENT BIOMIMETIC ROBOTS
 03/12/1998 - 07/30/2001 FY01: \$0 Total: \$300,000
Prin. Invest.: M SHAHINPOOR
Tech. Officer: JSC/K KRISHEN
CASE Category: 45 - ELECTRICAL ENGR

NAG 9 1017 UNIV OF NEW MEXICO-ALBUQUERQUE 6788
 STIMULUS FOR STUDENTS TO STUDY PRE COLLEGE MATH
 05/28/1998 - 07/21/2001 FY01: \$0 Total: \$297,351
Prin. Invest.: H E NEWSOM
Tech. Officer: JSC/L ARMENDARIZ
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 9 1042 UNIV OF NEW MEXICO-ALBUQUERQUE 6789
 1998 NASA TRAINING PROJECT
 07/01/1998 - 06/30/2001 FY01: \$0 Total: \$1,350,600
Prin. Invest.: J D TORRES
Tech. Officer: JSC/L ARMENDARIZ
CASE Category: 11 - ASTRONOMY

NAG 9 1111 UNIV OF NEW MEXICO-ALBUQUERQUE 6790
 INST FOR THE STUDY OF BIOMARKERS IN ASTROMATERIALS
 05/14/1999 - 05/13/2002 FY01: \$50,000 Total: \$150,000
Prin. Invest.: J J PAPIKE
Tech. Officer: JSC/E K GIBSON
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 9 1324 UNIV OF NEW MEXICO-ALBUQUERQUE 6791
 ADVANCED CO2 REMOVAL SYSTEM USING AMINE FUNCTIONAL IZED
 MEMBRANES
 07/20/2001 - 06/15/2002 FY01: \$95,000 Total: \$95,000
Prin. Invest.: J BRINKER
Tech. Officer: JSC/G THOMAS
CASE Category: 42 - ASTRONAUTICAL ENGR

NAS 3 00103 UNIV OF NEW MEXICO-ALBUQUERQUE 6792
 MULTIPLE PR'S FOR THIS ACTION: 132514,132514F BREAKTHROUGH
 PROPULSION PHYSICS
 01/19/2000 - 04/09/2002 FY01: \$79,972 Total: \$170,353
Prin. Invest.: K J MALLOY
Tech. Officer: GRC/M G MILLIS
CASE Category: 13 - PHYSICS

NCC 2 5345 UNIV OF NEW MEXICO-ALBUQUERQUE 6793
 TELEMEDICINE VIRTUAL COLLABORATORY
 08/16/1999 - 10/31/2000 FY01: -\$891 Total: \$70,660
Prin. Invest.: D ALVERSON
Tech. Officer: ARC/K A SOUZA, ARC/B P DALTON
CASE Category: 56 - MEDICL

NCC 5 309 UNIV OF NEW MEXICO-ALBUQUERQUE 6794
 PERFORMING A REGIONAL ASSESSMENT & PROTOTYPING INTERNET
 ACCESSIBLE MTPE PRODUCTS TO THE UPPER RIO
 04/09/1998 - 02/28/2003 FY01: \$392,955 Total: \$2,078,687
Prin. Invest.: S MORAIN
Tech. Officer: GSFC/A TUYAHOV
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 350 UNIV OF NEW MEXICO-ALBUQUERQUE 6795
 PREPARATION FOR UNVIERSITY OF STUDENTS IN UNDEGRAD UATE
 EDUCATION
 07/01/1998 - 07/31/2003 FY01: \$896,961 Total: \$1,996,587
Prin. Invest.: M JAMSHIDI
Tech. Officer: GSFC/M MATHEWS
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC13 98002 UNIV OF NEW MEXICO-ALBUQUERQUE 6796
 AFFILATED RESEARCH CENTER PROGRAM-COMMERCIAL RE- MOTE
 SENSING PARTNERSHIPS WITH INDUSTRY
 08/11/1998 - 08/10/2002 FY01: \$224,681 Total: \$574,681
Prin. Invest.: S A MORAIN, S A MORAIN
Tech. Officer: SSC/A PEEK
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30227 UNIV OF NEW MEXICO-ALBUQUERQUE 6797
 CLIMATIC WATER BALANCE AND THE DYNAMICS OF PINYON- JUNIPER
 09/19/2000 - 08/31/2001 FY01: \$0 Total: \$14,000
Prin. Invest.: B MILNE
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 9 31 UNIV OF NEW MEXICO-ALBUQUERQUE 6798
 TRAINING GRANT
 06/03/1998 - 08/01/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: C D HERD
Tech. Officer: JSC/J H JONES, JSC/D SICKORREZ
CASE Category: 32 - GEOLOGICAL SCIENCE

NEW YORK

NAG 5 7473 CAYUGA COUNTY COMMUNITY COLLEGE 6799
 DEFINING EARTH SYSTEM ENTERPRISE INFO NEEDS & PILOT PROGRAMS
 FOR UTILIZATION BY LOCAL GOVERNMENT
 06/15/1998 – 06/14/2002 FY01: \$0 Total: \$3,450,000
Prin. Invest.: R BROWN
Tech. Officer: GSFC/W CAMPBELL
CASE Category: 22 – COMPUTER SCIENCE

NAG13 00043 CAYUGA COUNTY COMMUNITY COLLEGE 6800
 SPATIAL INFORMATION TECHNOLOGY CENTER AT FULTON MONTGOMERY
 COMMUNITY COLLEGE
 09/27/2000 – 09/26/2002 FY01: \$498,900 Total: \$1,491,400
Prin. Invest.: R FRESTOPKIK
Tech. Officer: SSC/D POWE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG13 00044 CAYUGA COUNTY COMMUNITY COLLEGE 6801
 PHASE III:DEPLOYING ESE PILOT INFORMATION PROGRAMS FOR STATE &
 LOCAL GOVERNMENT IN THE NORTHEAST
 09/27/2000 – 09/26/2003 FY01: \$1,000,000 Total: \$10,110,000
Prin. Invest.: R BROWER
Tech. Officer: SSC/M MICK
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 3 2268 CITY UNIV OF NY HERBERT H. LEHMAN COLL 6802
 MATHEMATICS, SCIENCE AND TECHNOLOGY WITH EXCELLENCE IN
 RESEARCH: A SCIENCE AND TECHNOLOGY ENTRY PR
 05/17/1999 – 06/30/2002 FY01: \$100,000 Total: \$300,000
Prin. Invest.: A L ROTHSETIN
Tech. Officer: GRC/R F LAWRENCE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 3 2057 CITY UNIV. OF NY HOSTOS COMMUNITY COLL. 6803
 HOSTOS EARLY LEARNING COMMUNITIES
 08/19/1997 – 10/31/1999 FY01: -\$12,084 Total: \$137,916
Prin. Invest.: G MELENDEZ-DELANEY
Tech. Officer: GRC/D CENTENO-GOMEZ
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 5 7532 CITY UNIV COLLEGE OF NEW YORK YORK COLL 6804
 LET'S DO SCIENCE
 06/11/1998 – 05/31/2001 FY01: \$0 Total: \$583,704
Prin. Invest.: J SCHLEIN
Tech. Officer: GSFC/M STOUTSENBERGER
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10152 CITY UNIV COLLEGE OF NEW YORK YORK COLL 6805
 YORK COLLEGE OBSERVATORY EDUCATIONAL OUTREACH SVC. TO THE
 COLLEGE & THE PUBLIC SCHOOL COMMUNITY
 12/08/2000 – 12/31/2001 FY01: \$154,000 Total: \$154,000
Prin. Invest.: M SPERGEL
Tech. Officer: GSFC/P SAKIMOTO
CASE Category: 11 – ASTRONOMY

NAG 1 2028 CITY UNIV OF NEW YORK CITY COLLEGE 6806
 EIGENSTRUCTURE ASSIGNMENT FOR FAULT TOLERANT FLIGHT CONTROL
 DESIGN
 03/09/1998 – 01/31/2002 FY01: \$0 Total: \$298,796
Prin. Invest.: K SOBEL
Tech. Officer: LARC/S M JOSHI
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 2259 CITY UNIV OF NEW YORK CITY COLLEGE 6807
 IRA (INSTAL RESEARCH AWARD) PROGRAM TRANSFER NAGW5-6952
 01/19/2000 – 11/30/2002 FY01: \$170,000 Total: \$1,000,000
Prin. Invest.: R A ALFANO
Tech. Officer: LARC/N P BARNES, LARC/J C BARNES
CASE Category: 13 – PHYSICS

NAG 3 1836 CITY UNIV OF NEW YORK CITY COLLEGE 6808
 MOLECULAR DYNAMICS OF FLUID-SOLID SYSTEM
 04/19/1996 – 04/30/2000 FY01: \$0 Total: \$600,000
Prin. Invest.: J KOPLIK, J BANAVAR
Tech. Officer: GRC/B SINGH
CASE Category: 13 – PHYSICS

NAG 3 2074 CITY UNIV OF NEW YORK CITY COLLEGE 6809
 PICOSECOND GATED OPTICAL IMAGING OF DENSE FUEL SPRAYS
 09/17/1997 – 07/15/2001 FY01: \$0 Total: \$299,322
Prin. Invest.: P P HO
Tech. Officer: GRC/K J BREISACHER, GRC/L LIU
CASE Category: 41 – AERONAUTICAL ENGR

NAG 3 2163 CITY UNIV OF NEW YORK CITY COLLEGE 6810
 HIGH RESOLUTION EXPERIMENTS OF COMPRESSIBLE TURBULENCE
 INTERACTING WITH EXPANSION OR SHOCK WAVES
 08/24/1998 – 04/05/2001 FY01: \$0 Total: \$300,000
Prin. Invest.: Y ANDREPOULOS
Tech. Officer: GRC/D O DAVIS
CASE Category: 41 – AERONAUTICAL ENGR

NAG 3 2167 CITY UNIV OF NEW YORK CITY COLLEGE 6811
 USING SURFACTANTS TO ENHANCE THERMOCAPILLARY MIGRATION OF
 BUBBLES & DROPS & FACILITATE DROP SPREADING
 05/26/1998 – 09/30/2001 FY01: \$59,996 Total: \$299,820
Prin. Invest.: C MALDARELLI, RBALASUBRAMANIAN
Tech. Officer: GRC/B S SINGH
CASE Category: 13 – PHYSICS

NAG 3 2258 CITY UNIV OF NEW YORK CITY COLLEGE 6812
 SCIENCE AND TECHNOLOGY TEACHERS FOR THE NEXT MILLENNIA
 PHASE II (MASTAP)
 05/03/1999 – 03/22/2002 FY01: \$200,000 Total: \$600,000
Prin. Invest.: L P JOHNSON
Tech. Officer: GRC/R F LAWRENCE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 3 2259 CITY UNIV OF NEW YORK CITY COLLEGE 6813
 ULTRASONIC ASSESSMENT OF IMPACT-INDUCED DAMAGE AND MICRO-
 CRACKING IN POLYMER MATRIX COMPOSITES
 05/05/1999 – 01/26/2002 FY01: \$100,000 Total: \$200,000
Prin. Invest.: B LIAW
Tech. Officer: GRC/K J BOWLES
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 2335 CITY UNIV OF NEW YORK CITY COLLEGE 6814
 MOLECULAR DYNAMICS OF FLUID-SOLID SYSTEMS MOLECULAR
 DYNAMICS OF FLUID-SOLID SYSTEMS
 02/17/2000 - 11/30/2003 FY01: \$49,999 Total: \$75,085
Prin. Invest.: D KOPLIK
Tech. Officer: GRC/F P CHIARMONTE
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 4019 CITY UNIV OF NEW YORK CITY COLLEGE 6815
 CONTINUATION OF GRANT
 03/03/1997 - 11/30/2000 FY01: \$0 Total: \$300,000
Prin. Invest.: D AKINS
Tech. Officer: GSFC/S GLICKER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 4911 CITY UNIV OF NEW YORK CITY COLLEGE 6816
 ADVANCING MINORITIES IN SCIENCE AND ENGINEERING ED
 07/16/1997 - 08/31/2001 FY01: \$0 Total: \$633,325
Prin. Invest.: J BARBA
Tech. Officer: GSFC/M MATEU
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 6952 CITY UNIV OF NEW YORK CITY COLLEGE 6817
 TUNABLE SOLID STATE LASERS AND OPTICAL IMAGING
 02/02/1998 - 11/30/1999 FY01: -\$39,360 Total: \$1,861,893
Prin. Invest.: R R ALFANO
Tech. Officer: GSFC/J MALONE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 7129 CITY UNIV OF NEW YORK CITY COLLEGE 6818
 ROBUST ALGORITHMS FOR IMAGE REGISTRATION
 03/11/1998 - 09/30/2001 FY01: \$0 Total: \$300,000
Prin. Invest.: G WOLBERG
Tech. Officer: GSFC/J TILTON
CASE Category: 22 - COMPUTER SCIENCE

NAG 5 7160 CITY UNIV OF NEW YORK CITY COLLEGE 6819
 HIGH DENSITY SOLID STATE MEMORIES
 03/11/1998 - 03/14/2002 FY01: \$0 Total: \$294,347
Prin. Invest.: N SCHEINBERG
Tech. Officer: GSFC/H SHAW
CASE Category: 45 - ELECTRICAL ENGR

NAG 5 7827 CITY UNIV OF NEW YORK CITY COLLEGE 6820
 WINDS, WATER BUDGETS, AND STABLE ISOTOPES IN TROPICAL
 CYCLONES USING TRMM AND QUICKSCAT
 12/14/1998 - 12/14/2001 FY01: \$67,544 Total: \$204,552
Prin. Invest.: S GEDZELMAN
Tech. Officer: GSFC/O W THIELE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9732 CITY UNIV OF NEW YORK CITY COLLEGE 6821
 THE STUDENT POLARIMETER AEROSOL & CLOUD EXPERIMENT (SPACE)
 06/20/2000 - 12/31/2001 FY01: \$0 Total: \$100,000
Prin. Invest.: F MOSHARY, NONE
Tech. Officer: GSFC/C PERSON
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10845 CITY UNIV OF NEW YORK CITY COLLEGE 6822
 ADVANCING MINORITIES IN SCIENCE AND ENGINEERING EDUCATION
 05/01/2001 - 05/14/2002 FY01: \$157,608 Total: \$157,608
Prin. Invest.: J BARBA
Tech. Officer: GSFC/M MATEU
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 3 607 CITY UNIV OF NEW YORK CITY COLLEGE 6823
 THE SYNERGISM OF ELECTORRHEOLOGICAL RESPONSE, DIELECTROPHORESIS
 AND SHEAR-INDUCED DIFFUSION IN FLOW
 04/07/1998 - 01/31/2002 FY01: \$71,250 Total: \$296,250
Prin. Invest.: A ACRIVOS
Tech. Officer: GRC/F D CHIARAMONTE
CASE Category: 46 - MECHANICAL ENGR

NCC 5 98 CITY UNIV OF NEW YORK CITY COLLEGE 6824
 AN URBAN COLLABORATION FOR NETWORK CONNECTIVITY AND
 INTERNET ACCESS
 09/13/1995 - 11/14/2000 FY01: \$0 Total: \$2,423,500
Prin. Invest.: S AUSTIN
Tech. Officer: GSFC/J HARRINGTON
CASE Category: 22 - COMPUTER SCIENCE

NCC 5 343 CITY UNIV OF NEW YORK CITY COLLEGE 6825
 COOPERATIVE RESEARCH & EDUCATION PROGRAM: INST ON CLIMATE
 AND PLANETS
 06/23/1998 - 12/31/2000 FY01: \$0 Total: \$782,194
Prin. Invest.: N A PARKER
Tech. Officer: GSFC/L TRAVIS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 5 344 CITY UNIV OF NEW YORK CITY COLLEGE 6826
 INTEGRATION OF RESEARCH AND EDUCATION IN REMOTE SENSING
 AND ENVIRONMENTAL CLIMATE RESEARCH
 07/15/1998 - 06/30/2002 FY01: \$500,000 Total: \$2,000,000
Prin. Invest.: R KHANBILVARDI
Tech. Officer: HQ/B WHITE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 520 CITY UNIV OF NEW YORK CITY COLLEGE 6827
 COOPERATIVE RESEARCH & EDUCATION PROGRAM: INST. ON CLIMATE &
 PLANETS.
 11/02/2000 - 12/31/2001 FY01: \$349,123 Total: \$349,123
Prin. Invest.: N A PARKER
Tech. Officer: GSFC/L TRAVIS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 5 530 CITY UNIV OF NEW YORK CITY COLLEGE 6828
 AN URBAN COLLABORATION FOR NETWORKS CONNECTIVITY & INTERNET
 ACCESS/MUSPINNRTS PROGRAM.
 02/01/2001 - 01/31/2002 FY01: \$399,765 Total: \$399,765
Prin. Invest.: S AUSTIN
Tech. Officer: GSFC/J HARRINGTON
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1423 CITY UNIV OF NEW YORK SYSTEM 6829
 R/S OBJECTIVE OPERATIONAL UTILIZATION OF SATELLITE MICROWAVE
 SCATTEROMETER OBSERVATION OF TROPICAL
 01/01/1998 - 12/31/2000 FY01: -\$1 Total: \$99,999
Prin. Invest.: W J PIERSON
Tech. Officer: MSFC/J SIMMONDS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 3 1891 **CLARKSON UNIV** **6830**
 ABSOLUTE AND CONVECTIVE INSTABILITY AND SPLITTING OF A LIQUID
 05/30/1996 – 05/31/2001 FY01: \$4,867 Total: \$348,867
Prin. Invest.: S P LIN
Tech. Officer: GRC/M E HILL
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 3 2393 **CLARKSON UNIV** **6831**
 QUANTIFICATION OF ENERGY RELEASE IN COMPOSITE STRUCTURES
 04/18/2000 – 12/31/2001 FY01: \$0 Total: \$49,529
Prin. Invest.: D MINNETYAN
Tech. Officer: GRC/C C CHAMIS
CASE Category: 41 – AERONAUTICAL ENGR

NAG 3 2394 **CLARKSON UNIV** **6832**
 TEST-FREE FRACTURE TOUGHNESS, REF. #00169 TEST-FREE FRACTURE
 TOUGHNESS, REF. #00169
 04/18/2000 – 12/31/2001 FY01: \$0 Total: \$50,554
Prin. Invest.: D MINNETYAN
Tech. Officer: GRC/C C CHAMIS
CASE Category: 41 – AERONAUTICAL ENGR

NAG 3 2609 **CLARKSON UNIV** **6833**
 COMPUTATIONAL SIMULATION OF COMPOSITE STRUCTURAL FATIGUE
 05/16/2001 – 05/31/2004 FY01: \$25,118 Total: \$25,118
Prin. Invest.: D MINNETYAN
Tech. Officer: GRC/C C CHAMIS
CASE Category: 41 – AERONAUTICAL ENGR

NAG 8 1266 **CLARKSON UNIV** **6834**
 USE OF MICROGRAVITY TO CONTROL THE MICROSTRUCTURE OF EUTECTICS
 05/01/1996 – 11/30/2001 FY01: \$0 Total: \$540,000
Prin. Invest.: W R WILCOX, L L REGEL
Tech. Officer: MSFC/P DOTY, MSFC/R POWER
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1482 **CLARKSON UNIV** **6835**
 R/S IMPROVED CRYSTAL QUALITY BY DETACHED SOLIDIFICATION IN
 MICROGRAVITY
 02/12/1998 – 01/31/2002 FY01: \$90,250 Total: \$340,417
Prin. Invest.: L L REGEL
Tech. Officer: MSFC/C TALLEY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1703 **CLARKSON UNIV** **6836**
 RESIDUAL GAS EFFECTS ON DETACHED SOLIDIFICATION IN
 MICROGRAVITY
 06/22/2000 – 11/28/2003 FY01: \$95,000 Total: \$135,000
Prin. Invest.: W R WILCOX
Tech. Officer: MSFC/P DOTY
CASE Category: 12 – CHEMISTRY

NGT 1 52214 **CLARKSON UNIV** **6837**
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) YEAR 1
 06/10/1999 – 06/30/2002 FY01: \$12,000 Total: \$44,000
Prin. Invest.: M N GLAUSER
Tech. Officer: LARC/C S YAO
CASE Category: 41 – AERONAUTICAL ENGR

NGT 1 52222 **CLARKSON UNIV** **6838**
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
 06/29/1999 – 06/30/2002 FY01: \$16,000 Total: \$56,001
Prin. Invest.: R F SCHMIT, M GLAUSER
Tech. Officer: LARC/J JUANG, LARC/L HORTA
CASE Category: 41 – AERONAUTICAL ENGR

NGT 8 52849 **CLARKSON UNIV** **6839**
 MICROGRAVITY EQUIPMENT VIBRATIONS: A SENSITIVITY AND CONTROL
 STUDY
 07/21/1998 – 08/13/2001 FY01: \$0 Total: \$44,000
Prin. Invest.: G AHMADI
Tech. Officer: MSFC/J DOWDY
CASE Category: 46 – MECHANICAL ENGR

NGT 8 52853 **CLARKSON UNIV** **6840**
 COMPUTATIONAL MODELING OF FUEL SPRAY FORMATION IN ROCKET
 ENGINES
 07/21/1998 – 08/13/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: G AHMADI
Tech. Officer: MSFC/J F DOWDY
CASE Category: 46 – MECHANICAL ENGR

NAG 2 1345 **COLUMBIA UNIV** **6841**
 DEVELOPMENT & FUNCTION OF THE MOUSE VESTIBULAR SYSTEM IN THE
 ABSENCE OF GRAVITY PERCEPTION
 07/16/1999 – 07/14/2002 FY01: \$170,916 Total: \$429,061
Prin. Invest.: D J WOLGEMUTH
Tech. Officer: ARC/M M AVRENER, ARC/G C JAHN
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 618 **COLUMBIA UNIV** **6842**
 X-RAY ASTRONOMY
 07/23/1990 – 06/30/2001 FY01: \$0 Total: \$8,461,663
Prin. Invest.: R NOVICK, W H-M KU, M VARTANIAN
Tech. Officer: GSFC/L J EARLY, GSFC/R H PLESS
CASE Category: 13 – PHYSICS

NAG 5 3502 **COLUMBIA UNIV** **6843**
 SN 1987A: FORMATION OF A SUPERNOVA REMNANT
 12/11/1996 – 12/14/2001 FY01: \$175,300 Total: \$583,500
Prin. Invest.: A P CROTTS
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 4028 **COLUMBIA UNIV** **6844**
 MODELLING SOUTH PACIFIC OCEAN INTERACTIONS IN THE
 03/13/1997 – 02/28/2001 FY01: \$0 Total: \$261,592
Prin. Invest.: D M HOLLAND
Tech. Officer: GSFC/R H THOMAS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 4058 **COLUMBIA UNIV** **6845**
 IMPACTS OF INTERANNUAL VARIABILITY ON AGRO ECOSYSTEMS AND
 FISHERIES
 03/26/1997 – 12/31/2000 FY01: \$0 Total: \$360,000
Prin. Invest.: M CANE
Tech. Officer: GSFC/C ROSENZWEIG
CASE Category: 11 – ASTRONOMY

NAG 5 4649 **COLUMBIA UNIV** **6846**
 EARLY DIFFERENTIATION OF THE MOON: EXPERIMENTAL AND
 06/11/1997 - 05/31/2002 FY01: \$161,000 Total: \$710,000
Prin. Invest.: D LONGHI
Tech. Officer: GSFC/D NAVA
CASE Category: 11 - ASTRONOMY

NAG 5 5108 **COLUMBIA UNIV** **6847**
 LXEGRIT: A LIQUID XENON GAMMA-RAY IMAGING TELE- SCOPE FOR HIGH
 ENERGY ASTROPHYSICS
 02/11/1997 - 05/31/2001 FY01: \$30,000 Total: \$1,291,000
Prin. Invest.: E APRILE
Tech. Officer: GSFC/H C NEEDLEMAN, GSFC/B A MERRITT
CASE Category: 13 - PHYSICS

NAG 5 5123 **COLUMBIA UNIV** **6848**
 X-RAY SPECTROSCOPIC LABORATORY EXPERIMENTS IN SUPPORT OF
 THE NASA X-RAY ASTRONOMY PROGRAM
 02/20/1997 - 05/31/2003 FY01: \$85,240 Total: \$708,400
Prin. Invest.: S M KAHN
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 - PHYSICS

NAG 5 5247 **COLUMBIA UNIV** **6849**
 GRANT NAG5-5247 RAIN INDUCED AIR-WATER GAS EXCH. PI DR.
 SCHLOSSER
 04/01/1999 - 03/28/2001 FY01: \$0 Total: \$10,000
Prin. Invest.: P SCHLOSSER
Tech. Officer: GSFC/F BLIVEN
CASE Category: 13 - PHYSICS

NAG 5 5254 **COLUMBIA UNIV** **6850**
 HIGH-PERFORMANCE MULTILAYER COATINGS FOR THE NEXT GENERA-
 TION OF HIGH-RESOLUTION X-RAY OPTICS
 02/22/2000 - 02/03/2003 FY01: \$195,000 Total: \$380,000
Prin. Invest.: D L WINDT
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 - PHYSICS

NAG 5 5260 **COLUMBIA UNIV** **6851**
 THERMALLY-FORMED GALASS OPTICS FOR X-RAY AND GAMMA-RAY
 MISSIONS
 02/18/2000 - 02/10/2003 FY01: \$195,000 Total: \$374,000
Prin. Invest.: C J HAILEY
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 5261 **COLUMBIA UNIV** **6852**
 MEASUREMENTS, CALCULATIONS, AND ASTROPHYSICAL IMPLICATIONS
 OF NEW LOW TEMPERATURE DIELECTRONIC
 02/11/2000 - 02/10/2003 FY01: \$120,000 Total: \$233,040
Prin. Invest.: D W SAVIN
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 - PHYSICS

NAG 5 5275 **COLUMBIA UNIV** **6853**
 FUNDING FOR PHASE 1 OF SPACE PROJECT FUNDING FOR PHASE 1 OF
 SPACE PROJECT
 04/17/2000 - 04/13/2006 FY01: \$0 Total: \$299,510
Prin. Invest.: B CAIRNS
Tech. Officer: GSFC/D L PIERCE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 5280 **COLUMBIA UNIV** **6854**
 DEVELOPMENT OF XENON TIME PROJECTION CHAMBERS FOR PRECISDE
 COMPTON IMAGING OF ASTROPHYSICAL LINES
 05/31/2000 - 12/31/2002 FY01: \$390,000 Total: \$757,500
Prin. Invest.: E APRILE
Tech. Officer: GSFC/B A MERRITT
CASE Category: 11 - ASTRONOMY

NAG 5 6035 **COLUMBIA UNIV** **6855**
 SURFING THE HIGH DENSITY UNIVERSE
 10/03/1997 - 09/30/2001 FY01: \$137,700 Total: \$486,800
Prin. Invest.: D HELFAND
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 6294 **COLUMBIA UNIV** **6856**
 DEVELOP A UNIQUE SHARED RESEARCH FACILITY IN WHICH FOCUS ON
 THE CHANGING ATMOSPHER
 09/15/1997 - 08/14/2000 FY01: \$0 Total: \$225,000
Prin. Invest.: W BROECKER
Tech. Officer: GSFC/M KHAZENIE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 6315 **COLUMBIA UNIV** **6857**
 MODELING STUDIES OF THE EFFECTS OF WINDS AND HEAT TROPICAL
 OCEAN
 09/19/1997 - 03/31/2000 FY01: \$0 Total: \$291,359
Prin. Invest.: R SEAGER
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6321 **COLUMBIA UNIV** **6858**
 THE BIO-ATMOSPHERIC CYCLES OF NITROGEN AND CARBON: POLLUTION
 AND TERRESTRIAL ECOSYSTEMS
 09/09/1997 - 04/30/2001 FY01: \$0 Total: \$123,985
Prin. Invest.: E MATTHEWS
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6450 **COLUMBIA UNIV** **6859**
 PRODUCTION AND ANALYSIS OF GLOBAL WAVE AND PHOTOSYNTHETI-
 CALLY ACTIVE SURFACE IRRADIANCE FIELDS U
 10/31/1997 - 09/30/2001 FY01: \$0 Total: \$485,933
Prin. Invest.: J A BISHOP
Tech. Officer: GSFC/J A MARRA
CASE Category: 33 - OCEANOGRAPHY

NAG 5 6876 **COLUMBIA UNIV** **6860**
 INFLUENCE OF ARCTIC SEA ICE ON NATURAL AND ANTHROPOGENI-
 CALLY INDUCED CLIMATE VARIABILITY
 01/30/1998 - 03/31/2002 FY01: \$0 Total: \$235,200
Prin. Invest.: D G MARTINSON
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6877 **COLUMBIA UNIV** **6861**
 MONSOONS, TIDAL MIXING AND PRODUCTIVITY IN THE BAN DA SEA, INDO-
 NESIA
 02/10/1998 - 12/31/2001 FY01: \$0 Total: \$554,232
Prin. Invest.: T TAKAHASHI
Tech. Officer: GSFC/J MARRA
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6948 **COLUMBIA UNIV** **6862**
 MTPE: GLOBAL OCEAN-ATMOSPHERE INTERACTIONS FORCED BY TIDAL MIXING OF SST
 02/24/1998 - 12/31/2000 FY01: \$0 Total: \$127,651
Prin. Invest.: A L FIELD
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7044 **COLUMBIA UNIV** **6863**
 ASSESSING CURRENT AND POTENTIAL USE OF CLIMATE FOR ECAS TS FOR COMMUNAL FARM MANAGEMENT IN ZIMBABWE
 03/05/1998 - 08/31/2001 FY01: \$25,119 Total: \$102,621
Prin. Invest.: M A CANE
Tech. Officer: GSFC/D RIND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7138 **COLUMBIA UNIV** **6864**
 MIDDLEWORLD TRANSPORT WITHIN THREE-DIMENSIONAL MODES: CHARACTERIZATION & SENSITIVITIES TO MODEL F
 05/06/1998 - 03/31/2001 FY01: \$0 Total: \$126,408
Prin. Invest.: T HALL
Tech. Officer: GSFC/R W STEWART
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7461 **COLUMBIA UNIV** **6865**
 POLYNYAS, PREDATORS AND PACK ICE VARIABILITY IN THE SOUTHERN OCEAN
 10/26/1998 - 12/31/2001 FY01: \$91,498 Total: \$249,868
Prin. Invest.: S S JACOBS
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7687 **COLUMBIA UNIV** **6866**
 SURFACE SOLAR RADIATION SOLAR BASE
 09/17/1998 - 08/31/2001 FY01: \$67,429 Total: \$300,429
Prin. Invest.: G KUKLA
Tech. Officer: GSFC/M I MISHCHENKO
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7737 **COLUMBIA UNIV** **6867**
 SCIENCE AND CALIBRATION SUPPORT FOR THE REFLECTING GRATING SPECTROMETER ON THE X-RAY MULTI-MIRROR M
 10/01/1998 - 03/31/2002 FY01: \$1,005,000 Total: \$2,033,750
Prin. Invest.: S M KAHN
Prin. Invest.: NONE
Tech. Officer: GSFC/N E WHITE
CASE Category: 11 - ASTRONOMY

NAG 5 7740 **COLUMBIA UNIV** **6868**
 XTE A03 PROPOSAL - RECONSIDERING THE NATURE OF THE NEUTRON STARCANDIDATE IN RCW 103
 10/28/1998 - 10/31/2000 FY01: \$0 Total: \$9,401
Prin. Invest.: E GOTTHELF
Tech. Officer: GSFC/J SWANK
CASE Category: 11 - ASTRONOMY

NAG 5 7814 **COLUMBIA UNIV** **6869**
 NEW ASCA AND ROSAT OBSERVATIONS OF ROTATION-POWERED PULSARS - ADP 98
 12/03/1998 - 12/14/2001 FY01: \$0 Total: \$72,728
Prin. Invest.: J P HALPERN
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 7846 **COLUMBIA UNIV** **6870**
 CONSOLIDATING CYGNUS REGION 1.809 MEV EMISSION
 11/25/1998 - 05/31/2000 FY01: \$0 Total: \$5,000
Prin. Invest.: U OBERLACK
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 - ASTRONOMY

NAG 5 7922 **COLUMBIA UNIV** **6871**
 EFFECT OF HISTORICAL AND PROJECTED CLIMATE CHANGE ON SOUTHERN OCEAN SEA ICE AND ANTARCTIC MASS BALANCE
 12/21/1998 - 12/31/2000 FY01: \$0 Total: \$93,000
Prin. Invest.: D MARTINSON
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7935 **COLUMBIA UNIV** **6872**
 THE NATURE OF RADIO-QUIET X-RAY PULSARS IN SUPERNOVA REMNANTS (LTSA-98)
 12/14/1998 - 12/31/2001 FY01: \$117,407 Total: \$339,196
Prin. Invest.: E V GOTTHELF
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 7971 **COLUMBIA UNIV** **6873**
 NARROW-LINE SEYFERT 1 GALAXIES (LTSA 98)
 12/22/1998 - 09/14/2000 FY01: -\$7,843 Total: \$134,364
Prin. Invest.: K M LEIGHLY
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 7977 **COLUMBIA UNIV** **6874**
 ACCRETION RATES IN CATAclysmic VARIABLES (ADP98)
 12/23/1998 - 12/31/2001 FY01: \$0 Total: \$106,810
Prin. Invest.: J O PATTERSON
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8297 **COLUMBIA UNIV** **6875**
 VARIABILITY OF SEA LEVEL WITHIN THE INDONESIAN SEAS AND ITS RELATIONSHIP TO INTEROCEAN THROUGHFLOW
 02/23/1999 - 02/28/2001 FY01: \$0 Total: \$205,158
Prin. Invest.: A L GORDON
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8506 **COLUMBIA UNIV** **6876**
 COSMOLOGY AND PARTICLE ASTROPHYSICS THEORY (ATP - 98)
 05/10/1999 - 04/30/2000 FY01: \$0 Total: \$30,743
Prin. Invest.: M P KAMIONKOWSKI
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 8675 **COLUMBIA UNIV** **6877**
 HYDRODYNAMIC INSTABILITIES AND EDDY-MEAN FLOW INTERACTION IN
 THE SOUTHERN OCEAN
 07/08/1999 - 07/14/2001 FY01: -\$69,108 Total: \$131,482
Prin. Invest.: D L WITTER
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8725 **COLUMBIA UNIV** **6878**
 SEASONAL AND INTERANNUAL VARIABILITY OF AIR-SEA-ICE COUPLING
 PROCESSES IN THE SUBPOLAR SOUTHERN OCEAN
 08/04/1999 - 08/31/2002 FY01: \$42,416 Total: \$184,254
Prin. Invest.: X YUAN
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 8808 **COLUMBIA UNIV** **6879**
 US GLOBAL CHANGE RESEARCH INFORMATION OFFICE (GCRI O)
 09/08/1999 - 02/28/2001 FY01: \$0 Total: \$350,000
Prin. Invest.: R MILLER
Tech. Officer: GSFC/D KAHLE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8848 **COLUMBIA UNIV** **6880**
 FIRST YEAR FUNDING FOR SENH99-0121, LANDSLIDE MECHANISMS &
 HAZARD ASSESSMENT IN MOUNTAIN REGIONS
 12/16/1999 - 12/31/2001 FY01: \$148,174 Total: \$315,761
Prin. Invest.: J K WEISSEL
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 8854 **COLUMBIA UNIV** **6881**
 ASSIST IN DEVELOPING A THEORETICAL MATHEMATICAL MODEL FOR THE
 EXISTING WFF BALLOON LAUNCH TRAIN AND
 11/01/1999 - 10/31/2000 FY01: -\$31 Total: \$9,969
Prin. Invest.: B CRAIG
Tech. Officer: GSFC/T GRUNER
CASE Category: 41 - AERONAUTICAL ENGR

NAG 5 9056 **COLUMBIA UNIV** **6882**
 CONTINENT-WIDE ESTIMATION AND CALIBRATION OF CATCHMENT
 HYDROLOGIC PARAMETERS USING SRTM AND LASER
 02/15/2000 - 02/28/2002 FY01: \$46,943 Total: \$71,693
Prin. Invest.: C P STARK
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 9060 **COLUMBIA UNIV** **6883**
 IMPROVED ESTIMATES OF ANTARCTIC ICE SHEET VOLUME BASED ON
 INVERSION OF GRAVITY DATA & OTHER POTENTIALS
 02/10/2000 - 02/14/2002 FY01: \$72,250 Total: \$139,000
Prin. Invest.: R E BELL
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 9094 **COLUMBIA UNIV** **6884**
 TESTING FOR X-RAY PERIODICITIES IN SEYFERT GALAXIES - ADP 99
 02/18/2000 - 02/28/2002 FY01: -\$7,500 Total: \$22,152
Prin. Invest.: J P HALPERN
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9095 **COLUMBIA UNIV** **6885**
 ASCA OBSERVATIONS OF HIGH-ENERGY GAMMA-RAY SOURCES - ADP 99
 02/18/2000 - 02/28/2002 FY01: -\$7,500 Total: \$49,911
Prin. Invest.: J P HALPERN
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9136 **COLUMBIA UNIV** **6886**
 ON THE EVOLUTION OF YOUNG NEUTRON STARS: ANOMALOUS COMPACT
 OBJECTS WITHIN SUPERNOVA REMNANTS
 03/01/2000 - 02/28/2002 FY01: \$52,422 Total: \$102,862
Prin. Invest.: E V GOTTHELF
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9581 **COLUMBIA UNIV** **6887**
 UNRAVELING THE PHYSICAL CONDITIONS IN THE SOLAR ATMOSPHERE:
 EXPERIMENTAL AND THEORETICAL RATES FOR
 05/09/2000 - 04/30/2003 FY01: \$131,183 Total: \$206,052
Prin. Invest.: D W SAVIN
Tech. Officer: GSFC/W J WAGNER
CASE Category: 13 - PHYSICS

NAG 5 9615 **COLUMBIA UNIV** **6888**
 HIGH-PERFORMANCE MULTILAYER X-RAY OPTICS FOR SOLAR PHYSICS
 05/23/2000 - 04/30/2002 FY01: \$92,692 Total: \$144,069
Prin. Invest.: D WINDT
Tech. Officer: GSFC/W J WAGNER
CASE Category: 13 - PHYSICS

NAG 5 9653 **COLUMBIA UNIV** **6889**
 CONSOLIDATING THE VELA-REGION 1.809 MEV RESULTS
 05/30/2000 - 08/31/2001 FY01: \$0 Total: \$6,500
Prin. Invest.: U OBERLACK
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 - ASTRONOMY

NAG 5 9759 **COLUMBIA UNIV** **6890**
 ASSIMILATION OF REMOTELY SENSED SNOW OBSERVATIONS INTO THE
 NSIPP LAND SURFACE MODEL
 06/26/2000 - 06/30/2002 FY01: \$57,946 Total: \$103,447
Prin. Invest.: M STIEGLITZ
Tech. Officer: GSFC/P R HOUSER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9870 **COLUMBIA UNIV** **6891**
 SURVEYING THE GALACTIC PLANE WITH XMM
 09/29/2000 - 09/30/2002 FY01: \$30,000 Total: \$61,000
Prin. Invest.: D HELFAND
Tech. Officer: GSFC/P ATKINS
CASE Category: 11 - ASTRONOMY

NAG 5 9898 **COLUMBIA UNIV** **6892**
 THE NATURE OF ISOLATED NEUTRON STARS AND THE EQUATION OF
 STATE AT SUPRA-NUCLEAR DENSITY
 09/06/2000 - 09/14/2002 FY01: \$0 Total: \$8,500
Prin. Invest.: F B PAERELS
Tech. Officer: GSFC/R F MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 9911 **COLUMBIA UNIV** **6893**
 AN ULTRA-MAGNETIZED X-RAY PULSAR IN THE SUPERNOVA REMNANT
 KES 73
 09/05/2000 – 09/30/2002 FY01: \$13,365 Total: \$27,365
Prin. Invest.: E V GOTTHELF
Tech. Officer: GSFC/R M MUSHOTZKY
CASE Category: 11 – ASTRONOMY

NAG 5 9928 **COLUMBIA UNIV** **6894**
 COMPOSITE SUPERNOVA REMNANTS: HOME TO THE YOUNGEST
 NEUTRON STARS
 09/07/2000 – 09/14/2002 FY01: \$0 Total: \$23,459
Prin. Invest.: D J HELFAND
Tech. Officer: GSFC/D F MUTSHOTZKY
CASE Category: 11 – ASTRONOMY

NAG 5 9929 **COLUMBIA UNIV** **6895**
 AN X-RAY SPECTROSCOPIC DETERMINATION OF THE HUBBLE CONSTANT
 09/07/2000 – 09/14/2002 FY01: \$0 Total: \$24,619
Prin. Invest.: F B PAERLES
Tech. Officer: GSFC/D F MUSHOTZKY
CASE Category: 11 – ASTRONOMY

NAG 5 9946 **COLUMBIA UNIV** **6896**
 TAKING THE PULSE OF OUR YOUNGEST NEIGHBORHOOD NEUTRON STAR
 09/06/2000 – 09/14/2002 FY01: \$15,000 Total: \$32,900
Prin. Invest.: D J HELFAND
Tech. Officer: GSFC/R F MUSHOTZKY
CASE Category: 11 – ASTRONOMY

NAG 5 9950 **COLUMBIA UNIV** **6897**
 A POSSIBLE IDENTIFICATION OF THE EGRET SOURCE 2EG J2227+6122
 09/07/2000 – 08/31/2002 FY01: \$14,000 Total: \$30,662
Prin. Invest.: J P HALPERN
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 – ASTRONOMY

NAG 5 10082 **COLUMBIA UNIV** **6898**
 THE X-RAY TEMPERATURE FUNCTION AND STRUCTURE OF CLUSTERS AT
 Z=0.6-1
 11/06/2000 – 11/14/2002 FY01: \$5,625 Total: \$5,625
Prin. Invest.: C A SCHARF
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 – ASTRONOMY

NAG 5 10607 **COLUMBIA UNIV** **6899**
 USING A CLOUD-RESOLVING MODEL TO UNDERSTAND LARGE-SCALE
 VARIATIONS IN TROPICAL RAINFALL: A NO
 03/15/2001 – 03/14/2002 FY01: \$95,576 Total: \$95,576
Prin. Invest.: A SOBEL
Tech. Officer: GSFC/M WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 11049 **COLUMBIA UNIV** **6900**
 RECOMBINATION RATES OF METHYL RADICALS AT LOW TEMPERATURES
 IN HYDROGEN. (LOW TEMPERATURE PHOTOCHEMISTRY)
 06/18/2001 – 05/31/2002 FY01: \$65,000 Total: \$65,000
Prin. Invest.: R BERSOHN
Tech. Officer: GSFC/D J BOGAN
CASE Category: 12 – CHEMISTRY

NAG 5 11215 **COLUMBIA UNIV** **6901**
 MESOSCALE CIRCULATION AND ECOSYSTEM PROCESSES OFF WESTERN
 AUSTRALIA: A SYNERGISTIC APPROACH OF REMO
 08/13/2001 – 09/30/2003 FY01: \$243,481 Total: \$243,481
Prin. Invest.: O ANDERSON
Tech. Officer: GSFC/J MARRA
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 11357 **COLUMBIA UNIV** **6902**
 TIME VARIATIONS OF THE NET AIR-SEA CO₂ FLUX
 09/25/2001 – 09/30/2004 FY01: \$87,100 Total: \$87,100
Prin. Invest.: T TAKAHASHI
Tech. Officer: GSFC/J MARRA
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 9 1148 **COLUMBIA UNIV** **6903**
 INDIVIDUAL SUSCEPTIBILITY TO RADIATION EFFECTS
 09/14/1999 – 12/13/2002 FY01: \$397,244 Total: \$734,218
Prin. Invest.: E J HALL
Tech. Officer: JSC/F A CUCINOTTA
CASE Category: 59 – LIFE SCIENCE, OTHER

NAS 5 97164 **COLUMBIA UNIV** **6904**
 ACRIM SCIENCE TEAM
 04/21/1997 – 04/20/2002 FY01: \$583,827 Total: \$2,049,807
Prin. Invest.: R C WILSON
Tech. Officer: GSFC/V GRIFFIN
CASE Category: 32 – GEOLOGICAL SCIENCE

NAS 5 98037 **COLUMBIA UNIV** **6905**
 CONSTELLATION X-RAY MISSION
 06/22/1998 – 12/15/2001 FY01: \$90,000 Total: \$432,000
Prin. Invest.: S M KAHN
Tech. Officer: GSFC/J GRADY
CASE Category: 41 – AERONAUTICAL ENGR

NAS 5 98162 **COLUMBIA UNIV** **6906**
 EOSDIS SEDAC
 07/01/1998 – 06/30/2003 FY01: \$4,154,000 Total: \$11,070,114
Prin. Invest.: R S CHEN
Tech. Officer: GSFC/Q BARKER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 5 218 **COLUMBIA UNIV** **6907**
 SEASONAL-TO-INTERANNUAL PREDICTION PROJECT
 07/21/1997 – 06/30/2001 FY01: \$0 Total: \$220,892
Prin. Invest.: M STIEGLITZ
Tech. Officer: GSFC/R KOSTER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 5 270 **COLUMBIA UNIV** **6908**
 INTERDISCIPLINARY GLOBAL CHANGE RESEARCH
 02/17/1998 – 04/30/2000 FY01: \$0 Total: \$3,781,639
Prin. Invest.: L M DRUYAN
Tech. Officer: GSFC/A LACIS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 5 278 **COLUMBIA UNIV** **6909**
 MODELLING OF ATMOSPHERIC CIRCULATION AND CHEMISTRY -GSFC
 CONTROL NO.5-3357
 05/28/1998 - 02/28/2001 FY01: \$0 Total: \$373,065
Prin. Invest.: L POLVANI, NONE
Tech. Officer: GSFC/R STOTHERS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 5 328 **COLUMBIA UNIV** **6910**
 INTERDISCIPLINARY RESEARCH ON CLIMATE VARIABILITY AND THE
 IMPACTS ASSOCIATED WITH REGIONAL CLIMATE C
 06/05/1998 - 12/31/2000 FY01: \$0 Total: \$2,082,031
Prin. Invest.: M A CHANDLER
Tech. Officer: GSFC/D RIND
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 5 469 **COLUMBIA UNIV** **6911**
 MODELING OF ATMOSPHERIC CIRCULATION AND CHEMISTRY
 03/09/2000 - 06/14/2001 FY01: \$0 Total: \$259,591
Prin. Invest.: L POLVANI
Tech. Officer: GSFC/R STOTHERS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 5 470 **COLUMBIA UNIV** **6912**
 THE INST ON CLIMATE AND PLANETS (ICP): A RESEARCH EDUCATION
 PROGRAM
 03/09/2000 - 05/31/2001 FY01: \$0 Total: \$268,397
Prin. Invest.: C HARRIS
Tech. Officer: GSFC/B CARLSON
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 5 473 **COLUMBIA UNIV** **6913**
 INTERDISCIPLINARY GLOBAL CHANGE RESEARCH.
 03/15/2000 - 03/31/2001 FY01: \$419,830 Total: \$831,205
Prin. Invest.: L DRUYAN
Tech. Officer: GSFC/A LACIS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 5 485 **COLUMBIA UNIV** **6914**
 MODELING OF OCEAN CIRCULATION AND ATMOSPHERIC CHEMICAL
 SYSTEMS.
 03/30/2000 - 06/30/2001 FY01: \$664,196 Total: \$1,596,248
Prin. Invest.: C K CHU
Tech. Officer: GSFC/R B STOTHERS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 5 505 **COLUMBIA UNIV** **6915**
 INTERDISCIPLINARY RESEARCH ON CLIMATE VARIABILITY AND CLIMATE
 CHANGE
 07/21/2000 - 07/31/2002 FY01: \$1,226,342 Total: \$1,302,543
Prin. Invest.: M CHANDLER, NONE
Tech. Officer: GSFC/D RIND
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 5 510 **COLUMBIA UNIV** **6916**
 LAND SURFACE MODEL DEVELOPMENT FOR THE NASA SEASONAL TO
 INTERANNUAL PREDICTION PROJECT
 08/21/2000 - 08/14/2002 FY01: \$122,489 Total: \$177,298
Prin. Invest.: M STIEGLITZ
Tech. Officer: GSFC/R KOSTER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 5 546 **COLUMBIA UNIV** **6917**
 INTERDISCIPLINARY GLOBAL CHANGE RESEARCH
 04/04/2001 - 03/31/2002 FY01: \$862,710 Total: \$862,710
Prin. Invest.: L M DRUYAN
Tech. Officer: GSFC/A LACIS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 5 547 **COLUMBIA UNIV** **6918**
 MODELING OF OCEAN CIRCULATION AND ATMOSPHERIC CHEMICAL
 SYSTEMS
 04/06/2001 - 03/31/2002 FY01: \$927,415 Total: \$927,415
Prin. Invest.: C K CHU
Tech. Officer: GSFC/R B STOTHERS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 5 549 **COLUMBIA UNIV** **6919**
 "ICP: RESEARCH EDUCATION PROGRAM"
 04/09/2001 - 05/31/2002 FY01: \$169,981 Total: \$169,981
Prin. Invest.: C HARRIS
Tech. Officer: GSFC/B CARLSON
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 5 558 **COLUMBIA UNIV** **6920**
 MODELING OF ATMOSPHERIC CIRCULATION AND CHEMISTRY.
 06/06/2001 - 02/28/2002 FY01: \$329,203 Total: \$329,203
Prin. Invest.: L M POLVANI
Tech. Officer: GSFC/R STOTHERS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NGT 5 44 **COLUMBIA UNIV** **6921**
 RADIATIVE LINKS TO POLAR DYNAMICAL PROCESSES
 06/23/1997 - 06/30/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: A D DELGENIO
Tech. Officer: GSFC/M S BURRELL
CASE Category: 31 - ATMOSPHERIC SCIENCE

NGT 5 30106 **COLUMBIA UNIV** **6922**
 RAIN INDUCED AIR-WATER GAS EXCHANGE: MECHANISMS AND GLOBAL
 EFFECTS
 10/24/1997 - 08/31/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: D SCHLOSSER
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30123 **COLUMBIA UNIV** **6923**
 AN INTERMEDIATE-LEVEL MODEL FOR THE TROPICAL ATMOS
 09/30/1997 - 08/31/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: M CANE
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30167 **COLUMBIA UNIV** **6924**
 VARIABILITY OF BIOGEOCHEMICAL REGIMES IN THE ROSS SEA: AN ANAL-
 YSIS USING HIGH RESOLUTION SEA SURFACE
 09/02/1998 - 08/31/2002 FY01: \$0 Total: \$66,000
Prin. Invest.: T TAKAHASHI
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30226 **COLUMBIA UNIV** **6925**
 HIGH RESOLUTION MILLENNIAL SCALE HISTORY OF HUDSON VALLEY, NY
 FORESTS: CLIMATE & ENVIRONMENTAL INFL
 09/19/2000 – 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: D PETEET
Tech. Officer: GSFC/M WEI
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 30374 **COLUMBIA UNIV** **6926**
 INCREASING HAZARD IN GREATER CARACAS, VENEZUELA: I NTERAC-
 TIONS OFSNEOTECTONICS, LANDSLIDES AN
 08/13/2001 – 08/31/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: W MENKE
Tech. Officer: GSFC/M WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 30388 **COLUMBIA UNIV** **6927**
 SEMI-ARID GRASSLAND ECOSYSTEM FORCING: REPLACING NATIVE,
 FREE-RANGING UNGULATE GRAZING WITH HUMAN-
 08/13/2001 – 09/05/2001 FY01: \$0 Total: \$0
Prin. Invest.: W MENKE
Tech. Officer: GSFC/M WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 30391 **COLUMBIA UNIV** **6928**
 SENSITIVITY AND RESPONSE OF ICE-OCEAN-ATMOSPHERE I NTERAC-
 TIONS IN THESOUTH PACIFIC SECTOR OF THE
 08/14/2001 – 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: D MARTINSON
Tech. Officer: GSFC/M WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 50323 **COLUMBIA UNIV** **6929**
 PREDICTION OF MOSQUITO ABUNDANCE WITH A LAND SURFA CE
 HYDROLOGY MODEL & LANDSAT THERMATIC MAPPER IMA
 08/17/2000 – 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: M CANE
Tech. Officer: GSFC/M WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 50353 **COLUMBIA UNIV** **6930**
 X-RAY SPECTROSCOPIC INVESTIGATIONS OF OUTFLOWS IN ACTIVE
 GALACTIC NUCLEI
 05/11/2001 – 06/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: S KAHN
Tech. Officer: GSFC/K E BLANDING
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 1 2069 **CORNELL UNIV** **6931**
 BASIC RESEARCH IN CRACK GROWTH PREDICTION METHODO LOGIES
 05/20/1998 – 06/30/2000 FY01: \$0 Total: \$173,472
Prin. Invest.: A R INGRAFFEA, P A WAWRZYNEK
Tech. Officer: LARC/J C NEWMAN, JR., LARC/I S RAJU
CASE Category: 46 – MECHANICAL ENGR

NAG 1 2268 **CORNELL UNIV** **6932**
 CRACK TURNING AND DAMAGE TOLERANCE OF MONOLITHIC STRUC-
 TURES
 02/03/2000 – 06/15/2000 FY01: \$0 Total: \$25,225
Prin. Invest.: R PETTIT, A INGRAFFEA
Tech. Officer: LARC/J C NEWMAN/D R AMBUR
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 1 01034 **CORNELL UNIV** **6933**
 NANOTUBE SENSORS
 02/28/2001 – 10/31/2001 FY01: \$100,000 Total: \$100,000
Prin. Invest.: P L MCEUEN
Tech. Officer: LARC/S K KAHNG
CASE Category: 13 – PHYSICS

NAG 3 1854 **CORNELL UNIV** **6934**
 STABILITY OF SHAPE HELD BY SURFACE TENSION AND SUB JECTED TO
 FL90W
 05/01/1996 – 04/30/2001 FY01: \$0 Total: \$425,007
Prin. Invest.: P H STEEN
Tech. Officer: GRC/B S SINGH
CASE Category: 43 – CHEMICAL ENGR

NAG 3 1993 **CORNELL UNIV** **6935**
 SIMULATION OF CRACK GROWTH IN SPRIAL-BEVEL GEARS
 12/11/1996 – 01/01/2002 FY01: \$0 Total: \$289,961
Prin. Invest.: A R INGRAFFEA
Tech. Officer: GRC/D G LOWICKI
CASE Category: 46 – MECHANICAL ENGR

NAG 3 2112 **CORNELL UNIV** **6936**
 STUDIES OF GAS-PARTICLE INTERATIONS IN A MICROGRAV ITY FLOW
 CELL
 01/15/1998 – 12/31/2001 FY01: \$242,549 Total: \$686,517
Prin. Invest.: M LOUGE
Tech. Officer: GRC/R HAKIMAZADEH
CASE Category: 46 – MECHANICAL ENGR

NAG 3 2224 **CORNELL UNIV** **6937**
 HIGH PRESSURE COMBUSTION OF AN UNSUPPORTED SOOTING FUEL
 DROPLET IN MICROGRAVITY
 01/12/1999 – 11/11/2002 FY01: \$71,483 Total: \$211,972
Prin. Invest.: T AVEDISIAN
Tech. Officer: GRC/D L DIETRICH
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 2349 **CORNELL UNIV** **6938**
 TURBULENCE-INDUCED COALESCENCE OF AEROSOL PARTICLES
 03/23/2000 – 11/30/2003 FY01: \$95,000 Total: \$145,000
Prin. Invest.: D L KOCH
Tech. Officer: GRC/H K NAHRA
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 2353 **CORNELL UNIV** **6939**
 SHEET FLOWS, AVALANCHES, AND DUNE EVOLUTION ON EAR TH AND
 MARS
 03/14/2000 – 11/30/2003 FY01: \$58,900 Total: \$103,140
Prin. Invest.: D T JENKINS
Tech. Officer: GRC/F P CHIARMONTE
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 2440 **CORNELL UNIV** **6940**
 RAPIDLY SHEARED BUBBLY SUSPENSION RAPIDLY SHEARED BUBBLY
 SUSPENSION
 05/31/2000 – 04/30/2005 FY01: \$133,000 Total: \$273,000
Prin. Invest.: D L KOCH
Tech. Officer: GRC/H K NAHRA
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 3427 **CORNELL UNIV** **6941**
 DEVELOPMENT AND APPLICATION OF NEW TOOLS FOR STATI DISCRETE
 ASTROPHYSICAL DATA
 09/26/1996 – 09/30/2001 FY01: \$0 Total: \$522,253
Prin. Invest.: T J LOREDO
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3626 **CORNELL UNIV** **6942**
 PHYSICAL STUDIES OF PLANETARY AND SATELLITE SURFACE
 02/12/1997 – 10/31/2001 FY01: \$77,000 Total: \$511,150
Prin. Invest.: J VEVERKA
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3627 **CORNELL UNIV** **6943**
 SHAPES, SURFACES AND INTERIORS OF SATELLITES
 02/12/1997 – 03/31/2001 FY01: \$0 Total: \$210,850
Prin. Invest.: P C THOMAS
Tech. Officer: GSFC/J GRANT
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3639 **CORNELL UNIV** **6944**
 STUDY OF THE EFFECTS OF PHOTOMETRIC GEOMETRY ON SP
 MEASUREMENTS
 02/12/1997 – 12/31/2001 FY01: \$50,000 Total: \$247,500
Prin. Invest.: P HELFENSTEIN
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3795 **CORNELL UNIV** **6945**
 DYNAMICAL STUDIES OF PLANETARY RINGS
 03/24/1997 – 09/30/2001 FY01: \$61,000 Total: \$297,050
Prin. Invest.: P D NICHOLSON
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 3800 **CORNELL UNIV** **6946**
 STATISTICS OF GAMMA RAY BURSTS
 11/27/1996 – 11/30/2000 FY01: \$0 Total: \$50,000
Prin. Invest.: I M WASSERMAN
Tech. Officer: GSFC/J PNORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 3862 **CORNELL UNIV** **6947**
 STUDIES OF THERMAL STRUCTURES AND MOTIONS OF PLANE
 01/24/1997 – 11/30/2001 FY01: \$123,200 Total: \$547,161
Prin. Invest.: D J GIERABCH
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAG 5 3910 **CORNELL UNIV** **6948**
 PHYSICAL PROCESSES IN PLANETARY RINGS
 03/07/1997 – 12/31/2001 FY01: \$114,000 Total: \$683,100
Prin. Invest.: D A BURNS
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4205 **CORNELL UNIV** **6949**
 STUDIES IN PLANETARY GEOSCIENCES
 03/19/1997 – 03/31/2002 FY01: \$0 Total: \$459,323
Prin. Invest.: S W SQUYRES
Tech. Officer: GSFC/J G GRANT
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4220 **CORNELL UNIV** **6950**
 SURFACE PROPERTIES FROM RADAR AND RADIO OBSERVATIO
 03/15/1997 – 12/31/2000 FY01: \$0 Total: \$161,900
Prin. Invest.: D B CAMPBELL
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4333 **CORNELL UNIV** **6951**
 MARS SURFACE MINERALOGY FROM HST AND MARINER 6.7 I
 04/25/1997 – 04/30/2001 FY01: \$0 Total: \$133,200
Prin. Invest.: D F BELL
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4361 **CORNELL UNIV** **6952**
 IMPLICATIONS OF EPISODIC SUBDUCTION
 04/09/1997 – 03/31/2000 FY01: \$0 Total: \$105,000
Prin. Invest.: D L TURCOTTE
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4502 **CORNELL UNIV** **6953**
 OPERATE THE SPACECRAFT PLANETARY IMAGING FACILITY
 05/06/1997 – 02/28/2001 FY01: \$0 Total: \$146,150
Prin. Invest.: D VEVERKA
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 5134 **CORNELL UNIV** **6954**
 CO-INVESTIGATOR PROPOSAL FOR ENSTROPHY- FILAMENTATION OF
 AWARD CURRENTS
 04/14/1997 – 03/31/2000 FY01: -\$12 Total: \$201,579
Prin. Invest.: P KINTNER
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 – PHYSICS

NAG 5 5233 **CORNELL UNIV** **6955**
 SIERRA PI DR. PAUL KINTNER
 02/10/1999 – 03/31/2002 FY01: \$146,899 Total: \$513,147
Prin. Invest.: P M KINTNER
Tech. Officer: MSFC/W B JOHNSON
CASE Category: 13 – PHYSICS

NAG 5 5244 **CORNELL UNIV** **6956**
 FIRST YEAR OF A THREE GRANT NAG5-5244 PI DR. MICHAEL C. KELLEY
 03/29/1999 - 03/28/2002 FY01: \$97,600 Total: \$189,538
Prin. Invest.: M C KELLEY
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 - PHYSICS

NAG 5 6273 **CORNELL UNIV** **6957**
 BIOLOGICAL AND PHYSICAL CONTROLS OF PRIMARY PRODUC SUBSE-
 QUENT FATE IN THE GEORGES BANK REGION: AN IN
 08/29/1997 - 04/30/2001 FY01: \$0 Total: \$218,223
Prin. Invest.: G CHARLES
Tech. Officer: GSFC/J JODER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6437 **CORNELL UNIV** **6958**
 PERCEPTION AND TRANSDUCTION OF THE GRAVITATIONAL S TIMULUS
 10/28/1997 - 05/31/2000 FY01: -\$38,430 Total: \$181,577
Prin. Invest.: R WAYNE
Tech. Officer: GSFC/M P AVERNER
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 5 6495 **CORNELL UNIV** **6959**
 DEVELOPMENT OF 256X256 SI:SB AND SI:AS BIBIB DETEC TORS FOR
 SOFIA
 10/31/1997 - 12/31/2001 FY01: \$30,000 Total: \$840,000
Prin. Invest.: D L HERTER
Tech. Officer: GSFC/G STRINGFELLOW
CASE Category: 11 - ASTRONOMY

NAG 5 6783 **CORNELL UNIV** **6960**
 RADAR SYNTHESIS IMAGING OF SMALL BODIES
 01/20/1998 - 09/30/2000 FY01: -\$415 Total: \$101,585
Prin. Invest.: D B CAMPBELL
Tech. Officer: GSFC/P ROGERS
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 7264 **CORNELL UNIV** **6961**
 ROTATING AND BINARY NEUTRON STARS IN GENERAL RELATIVITY - ATP
 04/29/1998 - 04/30/2001 FY01: \$0 Total: \$166,136
Prin. Invest.: S TUEKOLSKY
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 7373 **CORNELL UNIV** **6962**
 OBSERVATIONS OF LARGE-SCALE JOVIAN THERMAL WAVES
 05/12/1998 - 05/14/2000 FY01: \$0 Total: \$158,910
Prin. Invest.: J HARRINGTON
Tech. Officer: GSFC/L D DEMING
CASE Category: 11 - ASTRONOMY

NAG 5 7497 **CORNELL UNIV** **6963**
 UNDERSTANDING METEOROLOGICAL CONTROLS OF GLACIER MASS
 BALANCE
 06/29/1998 - 06/30/2002 FY01: \$0 Total: \$270,000
Prin. Invest.: K H COOK
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 7508 **CORNELL UNIV** **6964**
 ELASTIC PROPERTIES OF FILMS OF WATER AND NOBLE GASES
 CONDENSED AT LOW TEMPERATURES
 06/29/1998 - 05/31/2001 FY01: \$0 Total: \$130,000
Prin. Invest.: R O POHL
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 7864 **CORNELL UNIV** **6965**
 JUPITER CLOUD STRUCTURE AND DYNAMICS STUDIES
 01/12/1999 - 12/31/2001 FY01: \$0 Total: \$182,000
Prin. Invest.: D J GIERASCH
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 - ASTRONOMY

NAG 5 7892 **CORNELL UNIV** **6966**
 SPECTROSCOPY AND METEORITE LINKAGE OF THE K-TYPE ASTEROIDS
 12/04/1998 - 12/31/2000 FY01: \$0 Total: \$41,000
Prin. Invest.: D E CLARK
Tech. Officer: GSFC/J GRANT
CASE Category: 11 - ASTRONOMY

NAG 5 7919 **CORNELL UNIV** **6967**
 SPATIALLY RESOLVED K-BAND GRISM SPECTRA OF URANUS AND
 NEPTUNE: AEROSOL AND METHANE VERTICAL DISTRIBUTION
 12/10/1998 - 12/31/2001 FY01: \$0 Total: \$58,795
Prin. Invest.: D BANFIELD
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 - ASTRONOMY

NAG 5 7965 **CORNELL UNIV** **6968**
 JOVIAN PLANETARY WAVES: BASIC ATMOSPHERIC PROPERTIES FROM
 MULTIPLE PRE-GALILEO DATASETS
 12/15/1998 - 12/31/2000 FY01: \$0 Total: \$73,978
Prin. Invest.: D HARRINGTON
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 - ASTRONOMY

NAG 5 8010 **CORNELL UNIV** **6969**
 DIGITAL MAPPING OF JOVIAN CLOUD MOTIONS
 01/13/1999 - 01/14/2002 FY01: \$0 Total: \$50,000
Prin. Invest.: P HELFENSTEIN
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 - ASTRONOMY

NAG 5 8067 **CORNELL UNIV** **6970**
 COMET NUCLEUS TOUR - CONTOUR
 01/21/1999 - 09/30/2000 FY01: \$0 Total: \$574,000
Prin. Invest.: D VEVERKA
Tech. Officer: GSFC/A CARRO
CASE Category: 11 - ASTRONOMY

NAG 5 8070 **CORNELL UNIV** **6971**
 WATER DETECTION ON ASTEROIDS: ARE THE VISIBLE REBANDS REALLY A
 GOOD PROXY?
 01/29/1999 - 02/28/2002 FY01: \$0 Total: \$89,364
Prin. Invest.: D S HOWELL
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 - ASTRONOMY

NAG 5 8188 **CORNELL UNIV** **6972**
 UNDERGRADUATE COURSE ON SATELLITE REMOTE SENSING IN BIOLOGICAL OCEANOGRAPHY
 03/04/1999 – 09/30/2001 FY01: \$0 Total: \$151,501
Prin. Invest.: B MONGER
Tech. Officer: GSFC/J CAMPBELL
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 8282 **CORNELL UNIV** **6973**
 SEPARATION & ANALYSIS OF TES ATMOSPHERIC TEMPERATURES AS COMPONENT FIELDS: ZONAL MEANS, THERMAL
 02/19/1999 – 02/28/2002 FY01: \$66,000 Total: \$200,800
Prin. Invest.: D J BANDFIELD
Tech. Officer: HQ/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 8356 **CORNELL UNIV** **6974**
 ASTROPHYSICS OF FAST MOVING NEUTRON STARS (ATP98)
 03/11/1999 – 03/14/2002 FY01: \$115,000 Total: \$329,504
Prin. Invest.: D F CHERNOFF
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 8484 **CORNELL UNIV** **6975**
 MATTER IN STRONG MAGNETIC FIELDS AND THERMAL RADIATION FROM ISOLATED NEUTRON STARS (ATP – 98)
 05/11/1999 – 05/14/2002 FY01: \$69,000 Total: \$197,114
Prin. Invest.: D LAI
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 8673 **CORNELL UNIV** **6976**
 A SCANNING DOUBLE HALF-WAVE INTERFEROMETER FOR SOFIA
 07/09/1999 – 07/14/2002 FY01: \$0 Total: \$315,665
Prin. Invest.: G J STACEY
Tech. Officer: GSFC/G MUCKLOW
CASE Category: 11 – ASTRONOMY

NAG 5 8775 **CORNELL UNIV** **6977**
 ENGINEERING CONTROL OF BIOMOLECULAR MOTOR POWERED NANO-CHEMICAL DEVICE
 09/01/1999 – 08/31/2002 FY01: \$143,631 Total: \$326,772
Prin. Invest.: C MONTEEMAGNO
Tech. Officer: GSFC/S DAVISON
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 8950 **CORNELL UNIV** **6978**
 DELIVERY OF ASTEROIDS AND METEOROIDS TO EARTH VIA YARKOVSKY THERMAL FORCES
 01/24/2000 – 10/15/2000 FY01: -\$11,041 Total: \$13,659
Prin. Invest.: W BOTTKE
Tech. Officer: GSFC/J GRANT
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 9034 **CORNELL UNIV** **6979**
 RADAR SYNTHESIS IMAGING OF SMALL BODIES
 02/07/2000 – 02/14/2003 FY01: \$63,000 Total: \$122,850
Prin. Invest.: B CAMPBELL
Tech. Officer: GSFC/J GRANT
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 9047 **CORNELL UNIV** **6980**
 ACCRETION TO MAGNETIZED ROTATING NEUTRON STARS (ATP 99)
 03/09/2000 – 03/14/2002 FY01: \$59,643 Total: \$116,752
Prin. Invest.: R LOVELACE
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 9067 **CORNELL UNIV** **6981**
 SCALING & CROSS CORRELATION STUDIES OF LAND SLIDES
 02/17/2000 – 02/28/2002 FY01: \$75,000 Total: \$120,000
Prin. Invest.: D L TURCOTTE
Tech. Officer: GSFC/H V FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 9082 **CORNELL UNIV** **6982**
 UNDERSTANDING THE DISTRIBUTION OF NEAR-EARTH OBJECTS TO THE NASA NEAR EARTH OBJECTS OBSERVATIONS
 02/17/2000 – 08/14/2000 FY01: -\$33,804 Total: \$12,196
Prin. Invest.: W BOTTKE
Tech. Officer: GSFC/H MORGAN
CASE Category: 11 – ASTRONOMY

NAG 5 9140 **CORNELL UNIV** **6983**
 INVESTIGATION OF CELESTIAL SOLID ANALOGS
 02/29/2000 – 02/28/2002 FY01: \$60,000 Total: \$116,520
Prin. Invest.: A SIEVERS
Tech. Officer: GSFC/P CRANE
CASE Category: 11 – ASTRONOMY

NAG 5 9178 **CORNELL UNIV** **6984**
 MULTIWAVELENGTH OBSERVATIONS OF THE MICROQUASAR GRAS 1915+105--ADP99
 03/06/2000 – 03/14/2001 FY01: \$0 Total: \$20,482
Prin. Invest.: S S EIKENBERRY
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 21 – MATHEMATICS

NAG 5 9199 **CORNELL UNIV** **6985**
 ELECTRON AND ION ACCELERATION ASSOCIATED WITH ALFVENIC STRUCTURES
 03/09/2000 – 03/14/2003 FY01: \$80,000 Total: \$153,500
Prin. Invest.: C E SEYLER
Tech. Officer: GSFC/M MELLOTT
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 9492 **CORNELL UNIV** **6986**
 STUDIES OF VOLCANISM AND TECTONISM ON MARS AND THE MOON
 04/17/2000 – 04/14/2002 FY01: \$35,000 Total: \$68,250
Prin. Invest.: D L TURCOTTE
Tech. Officer: GSFC/J A GRANT
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 9594 **CORNELL UNIV** **6987**
 PARTICIPATION IN SHOEMAKER-LEVY 9 IMPACT MODELING INVESTIGATION
 06/08/2000 – 06/14/2002 FY01: \$46,823 Total: \$107,147
Prin. Invest.: J HARRINGTON
Tech. Officer: GSFC/L D DEMING
CASE Category: 11 – ASTRONOMY

NAG 5 9612	CORNELL UNIV	6988	NAG 5 10438	CORNELL UNIV	6996
NEW ALGORITHMS FOR MAGNETOMETER ORBIT AND ATTITUDE ESTIMATION			THE IRREGULAR SATELLITE SYSTEMS OF THE GIANT PLANETS		
05/26/2000 – 05/31/2002	FY01: \$0	Total: \$60,008	02/20/2001 – 02/28/2002	FY01: \$54,000	Total: \$54,000
<i>Prin. Invest.:</i> D PSIAKI			<i>Prin. Invest.:</i> P NICHOLSON		
<i>Tech. Officer:</i> GSFC/R HARMAN			<i>Tech. Officer:</i> GSFC/T MORGAN		
<i>CASE Category:</i> 41 – AERONAUTICAL ENGR			<i>CASE Category:</i> 11 – ASTRONOMY		
NAG 5 9735	CORNELL UNIV	6989	NAG 5 10559	CORNELL UNIV	6997
MAGNETOHYDRODYNAMICS AND PLASMA PHENOMENA IN PROTE STELLAR SYSTEMS			MHD AND PLASMA PHENOMENA IN PROTOSTELLAR SYSTEMS		
06/21/2000 – 06/30/2002	FY01: \$23,200	Total: \$45,200	03/13/2001 – 05/15/2001	FY01: \$0	Total: \$0
<i>Prin. Invest.:</i> R LOVELACE			<i>Prin. Invest.:</i> R V LOVELACE		
<i>Tech. Officer:</i> GSFC/J BOYCE			<i>Tech. Officer:</i> GSFC/J BOYCE		
<i>CASE Category:</i> 11 – ASTRONOMY			<i>CASE Category:</i> 11 – ASTRONOMY		
NAG 5 9774	CORNELL UNIV	6990	NAG 5 10574	CORNELL UNIV	6998
SUB-PIXEL DETECTABILITY OF MATERIALS AT THE PATH FINDER LANDING SITE: IMPLICATIONS FOR MARTIAN SURF			EVALUATION OF DUST AVALANCHES AND HIGH-ALTITUDE AEOLIAN FEATURES		
06/30/2000 – 06/30/2002	FY01: \$70,000	Total: \$140,000	03/13/2001 – 03/14/2002	FY01: \$45,000	Total: \$45,000
<i>Prin. Invest.:</i> J F BELL			<i>Prin. Invest.:</i> R SULLIVAN		
<i>Tech. Officer:</i> GSFC/J BOYCE			<i>Tech. Officer:</i> GSFC/J M BOYCE		
<i>CASE Category:</i> 11 – ASTRONOMY			<i>CASE Category:</i> 11 – ASTRONOMY		
NAG 5 9794	CORNELL UNIV	6991	NAG 5 10579	CORNELL UNIV	6999
DETERMINATION OF AERODYNAMIC ROUGHNESS FROM SURFACE-BASED STEREO IMAGING			DUST LIFTING & TRANSPORT ON MARS: ANALYSIS OF MGS DATA WITH A MESOSCALE MODEL		
07/11/2000 – 07/14/2002	FY01: \$43,000	Total: \$85,100	03/19/2001 – 02/28/2002	FY01: \$71,000	Total: \$71,000
<i>Prin. Invest.:</i> R J SULLIVAN			<i>Prin. Invest.:</i> P GIERASCH		
<i>Tech. Officer:</i> GSFC/J BOYCE			<i>Tech. Officer:</i> GSFC/J BOYCE		
<i>CASE Category:</i> 39 – ENVIRONMENTAL SCI, OTHER			<i>CASE Category:</i> 11 – ASTRONOMY		
NAG 5 10168	CORNELL UNIV	6992	NAG 5 10580	CORNELL UNIV	7000
SURFACES OF PLANETS, SATELLITES, AND ASTEROIDS			OBSERVATIONAL STUDY OF THE MARS POLAR VORTEX		
01/04/2001 – 11/30/2001	FY01: \$39,000	Total: \$39,000	03/19/2001 – 02/28/2002	FY01: \$60,000	Total: \$60,000
<i>Prin. Invest.:</i> P THOMAS			<i>Prin. Invest.:</i> B CONRATH		
<i>Tech. Officer:</i> GSFC/D SENSKE			<i>Tech. Officer:</i> GSFC/J M BOYCE		
<i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER			<i>CASE Category:</i> 11 – ASTRONOMY		
NAG 5 10289	CORNELL UNIV	6993	NAG 5 10584	CORNELL UNIV	7001
THERMAL EMISSION SPECTRAL MODELING WITH APPLICATIONS TO ASTEROIDS AND METEORITES			ELASTIC PROPERTIES OF FILMS OF WATER & NOBLE GASES CONDENSED AT LOW TEMPERATURES		
01/29/2001 – 01/31/2002	FY01: \$16,000	Total: \$16,000	03/13/2001 – 05/31/2002	FY01: \$45,000	Total: \$45,000
<i>Prin. Invest.:</i> B E CLARK			<i>Prin. Invest.:</i> R O POHL		
<i>Tech. Officer:</i> GSFC/D SENSKE			<i>Tech. Officer:</i> GSFC/J BOYCE		
<i>CASE Category:</i> 11 – ASTRONOMY			<i>CASE Category:</i> 11 – ASTRONOMY		
NAG 5 10356	CORNELL UNIV	6994	NAG 5 10636	CORNELL UNIV	7002
QUANTUM WELL ELECTRON GAIN STRUCTURES FOR IMPROVED INFRARED DETECTOR READ NOISE			MINERALOGY AND WEATHERING HISTORY OF THE MARTIAN SURFACE		
02/07/2001 – 01/31/2002	FY01: \$293,057	Total: \$293,057	03/17/2001 – 03/14/2002	FY01: \$80,000	Total: \$80,000
<i>Prin. Invest.:</i> S EIKENBERRY			<i>Prin. Invest.:</i> J F BELL, III		
<i>Tech. Officer:</i> GSFC/G STRINGFELLOW			<i>Tech. Officer:</i> GSFC/D SENSKE		
<i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER			<i>CASE Category:</i> 11 – ASTRONOMY		
NAG 5 10434	CORNELL UNIV	6995	NAG 5 10848	CORNELL UNIV	7003
OPERATE THE SPACECRAFT PLANETARY IMAGING FACILITY AT CORNELL			UNDERGRADUATE COURSE ON SATELLITE REMOTE SENSING IN BIOLOGICAL OCEANOGRAPHY		
02/16/2001 – 02/28/2002	FY01: \$37,000	Total: \$37,000	05/03/2001 – 04/14/2002	FY01: \$89,482	Total: \$89,482
<i>Prin. Invest.:</i> J VEVERKA			<i>Prin. Invest.:</i> B MONGER		
<i>Tech. Officer:</i> GSFC/D SENSKE			<i>Tech. Officer:</i> GSFC/J MARRA		
<i>CASE Category:</i> 11 – ASTRONOMY			<i>CASE Category:</i> 39 – ENVIRONMENTAL SCI, OTHER		

NAG 8 1357 **CORNELL UNIV** **7004**
 R/S "DEFECTS, GROWTH, & ELASTIC PROPERTIES OF PROTEIN CRYSTALS"
 05/15/1997 - 05/31/2001 FY01: \$41,913 Total: \$410,913
Prin. Invest.: R THORNE
Tech. Officer: MSFC/B GUYNES, MSFC/J MAYO
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1372 **CORNELL UNIV** **7005**
 R/S ENHANCEMENT OF CELL FUNCTION IN CULTURE BY CONTROLLED
 AGGREGATION UNDER MICROGRAVITY CONDITIO
 06/18/1997 - 05/31/2001 FY01: \$0 Total: \$511,000
Prin. Invest.: W M SALTZMAN
Tech. Officer: JSC/W M SATTMAN
CASE Category: 13 - PHYSICS

NAG 8 1438 **CORNELL UNIV** **7006**
 STUDIES OF FREE RADICALS
 02/17/1998 - 01/31/2001 FY01: \$10,500 Total: \$245,500
Prin. Invest.: J M PARPIA
Tech. Officer: MSFC/J W POE
CASE Category: 11 - ASTRONOMY

NAG 8 1445 **CORNELL UNIV** **7007**
 STUDIES OF FREE RADICALS
 02/16/1998 - 01/31/2003 FY01: \$142,500 Total: \$583,500
Prin. Invest.: D M LEE
Tech. Officer: MSFC/J W POE
CASE Category: 13 - PHYSICS

NAG 8 1518 **CORNELL UNIV** **7008**
 MESOSCALE LANDSURFACE HEAT FLUX VARIABILITY OVER THE
 SOUTHERN GCIP AREA FROM ATMOSPHERIC SOUNDINGS
 06/01/1998 - 05/31/2002 FY01: \$0 Total: \$343,000
Prin. Invest.: W BRUTSAERT
Tech. Officer: MSFC/J ARNOLD
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 8 1574 **CORNELL UNIV** **7009**
 IMPURITY EFFECTS IN MACROMOLECULAR CRYSTAL GROWTH
 01/05/1999 - 11/30/2002 FY01: \$29,150 Total: \$192,150
Prin. Invest.: R THORNE
Tech. Officer: MSFC/B GUYNES
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 8 1666 **CORNELL UNIV** **7010**
 INFLUENCE OF HOMOGENEITY AND FRAGILITY ON THE DYNAMICAL PROP-
 erties OF GLASSY NETWORKS.
 05/12/2000 - 09/30/2003 FY01: \$104,500 Total: \$159,500
Prin. Invest.: A J SIEVERS
Tech. Officer: MSFC/P DOTY
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 8 1671 **CORNELL UNIV** **7011**
 ON THE CONTROL OF THE EFFECTS OF GRAVITY ON THE SO LIDIFIATION
 MICROSTRUCTURES USING OPTIMALLY DESIG
 06/16/2000 - 12/31/2003 FY01: \$90,250 Total: \$135,250
Prin. Invest.: N ZABARAS
Tech. Officer: MSFC/P DOTY
CASE Category: 43 - CHEMICAL ENGR

NAG 8 1716 **CORNELL UNIV** **7012**
 SIMULATION FOR OPERATIONAL AND SPARE PARTS STOCKING FOR SPACE
 TRANSPORTATION SYSTEMS.
 03/22/2000 - 12/22/2001 FY01: \$2,000 Total: \$76,999
Prin. Invest.: P JACKSON
Tech. Officer: MSFC/M NIX
CASE Category: 46 - MECHANICAL ENGR

NAG 8 1759 **CORNELL UNIV** **7013**
 BIODEGRADABLE POLYMERS
 05/02/2001 - 03/31/2005 FY01: \$74,084 Total: \$74,084
Prin. Invest.: C A BATT, E P GIANNELIS
Tech. Officer: MSFC/D SHUBBARD
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1778 **CORNELL UNIV** **7014**
 MICROSCALE MIXER FOR PROTEIN FOLDING
 05/02/2001 - 12/31/2005 FY01: \$80,000 Total: \$80,000
Prin. Invest.: L POLLACK
Tech. Officer: MSFC/D HUBBARD
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1831 **CORNELL UNIV** **7015**
 R/S "MACROMOLECULAR CRYSTAL GROWTH: TECHNIQUES, DEVELOP-
 MENT, FUNDAMENTAL STUDIES, AND APPS.
 08/30/2001 - 11/30/2004 FY01: \$131,000 Total: \$131,000
Prin. Invest.: R E THORNE
Tech. Officer: MSFC/G GUYNES
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NASW 00005 **CORNELL UNIV** **7016**
 PRINCIPAL INVESTIGATOR & CO'S NASA'S CONTOUR DISCOVERY MISSION
 07/03/2000 - 09/30/2002 FY01: \$563,497 Total: \$905,497
Prin. Invest.: J F VEVERKA
Tech. Officer: HQ/D B JARRETT
CASE Category: 11 - ASTRONOMY

NASW 99008 **CORNELL UNIV** **7017**
 DEVELOPMENT MID-INFARED CROSS DISPERSEL ECHELLE SPECTRO-
 GRAPH W/NO MOVING PARTS KECK OBS
 05/24/1999 - 05/23/2000 FY01: \$0 Total: \$78,812
Prin. Invest.: J R HOUCK
Tech. Officer: HQ/J T BERGSTRALH
CASE Category: 11 - ASTRONOMY

NCC 2 1201 **CORNELL UNIV** **7018**
 DO INTEGRINS MEDIATE THE SKELETAL RESPONSES TO ALT ERED
 LOADING IN VIVO (SUB-PROJECT B)
 09/12/2000 - 09/30/2002 FY01: \$30,172 Total: \$64,060
Prin. Invest.: M C VAN DER MEULEN
Tech. Officer: ARC/R K GLOBUS, ARC/E M HOLTON
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NCC 2 5459 **CORNELL UNIV** **7019**
 SYNTHETIC & MICROBIAL FOOD INGREDIENTS FOR LONG DU RATION
 SPACE MISSIONS
 08/27/2001 - 08/31/2002 FY01: \$18,293 Total: \$18,293
Prin. Invest.: J B HUNTER
Tech. Officer: ARC/H W JONES, ARC/M H KLISS
CASE Category: 59 - LIFE SCIENCE, OTHER

NCC 3 468 **CORNELL UNIV** **7020**
 MICROGRAVITY SEGREGATION IN BINARY MIXTURES OF INE LASTIC
 SPHERES DRIVEN BY VELOCITY FLUCTUATION GRA
 04/22/1996 - 08/15/2001 FY01: \$0 Total: \$787,098
Prin. Invest.: J T JENKINS, M LOUGE
Tech. Officer: GRC/R HAKIMZADEH, GRC/E NELSON
CASE Category: 46 - MECHANICAL ENGR

NCC 3 797 **CORNELL UNIV** **7021**
 PARTICLE SEGREGATION IN COLLISIONAL SHEARING FLOWS PARTICLE
 SEGREGATION IN COLLISIONAL SHEARINGFLOW
 05/18/2000 - 04/30/2005 FY01: \$183,996 Total: \$309,996
Prin. Invest.: J JENKINS
Tech. Officer: GRC/F P CHARIAMONTE 111
CASE Category: 46 - MECHANICAL ENGR

NCC 3 832 **CORNELL UNIV** **7022**
 HIGH TEMPERATURE POLYIMIDE NANOCOMPOSITES HIGH TEMPERATURE
 POLYIMIDE NANOCOMPOSITES
 01/04/2001 - 12/31/2001 FY01: \$67,850 Total: \$67,850
Prin. Invest.: D P GIANNELIS
Tech. Officer: GRC/M MEADOR
CASE Category: 47 - METAL & MATERIALS ENGR

NCC 5 298 **CORNELL UNIV** **7023**
 CARBON AND NUTRIENT STOCKS, SOIL WATER DYNAMICS, A ND TRACE
 GAS FLUXES IN ABANDONED PASTURES AND AGR
 06/16/1998 - 12/31/2001 FY01: \$346,002 Total: \$995,177
Prin. Invest.: E FERNANDES
Tech. Officer: GSFC/D DEERING
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 5 322 **CORNELL UNIV** **7024**
 OUTER PLANETS ATMOSPHERIC STRUCTURE
 03/10/1998 - 02/28/2001 FY01: \$18,580 Total: \$348,719
Prin. Invest.: P J GIERASCH
Tech. Officer: GSFC/F M FLASAR
CASE Category: 11 - ASTRONOMY

NCC 5 375 **CORNELL UNIV** **7025**
 RADIATIVE STUDIES OF PLANETARY ATMOSPHERES
 01/19/1999 - 02/14/2002 FY01: \$114,229 Total: \$273,854
Prin. Invest.: B J CONRATH
Tech. Officer: GSFC/F M FLASAR
CASE Category: 11 - ASTRONOMY

NCC 5 539 **CORNELL UNIV** **7026**
 OUTER PLANETS, ATMOSPHERIC STRUCTURE AND PARTICIPA TION IN
 CIRS
 02/12/2001 - 02/14/2002 FY01: \$170,000 Total: \$170,000
Prin. Invest.: P J GIERASCH
Tech. Officer: GSFC/F M FLASAR
CASE Category: 11 - ASTRONOMY

NCC 5 563 **CORNELL UNIV** **7027**
 DEVELOPMENT OF GPS SOFTWARE RECEIVER ALGORITHMS FOR USE IN
 HIGH-ALTITUDE SPACECRAFT NAVIGATION
 06/12/2001 - 06/30/2002 FY01: \$40,000 Total: \$40,000
Prin. Invest.: M L PSIAKI
Tech. Officer: GSFC/B L EDWARDS
CASE Category: 42 - ASTRONAUTICAL ENGR

NCC 9 86 **CORNELL UNIV** **7028**
 EVALUATION OF WATER-JACKTED LAMPS FOR USE IN JSC BIO-PLEX
 06/01/1999 - 12/31/2001 FY01: \$0 Total: \$26,089
Prin. Invest.: L D ALBRIGHT
Tech. Officer: JSC/D J BARTA
CASE Category: 55 - AGRICULTURE

NCC 9 89 **CORNELL UNIV** **7029**
 COORDINATE ANALYSIS AND CALIBRATION STUDIES
 07/20/1999 - 07/19/2002 FY01: \$10,000 Total: \$30,000
Prin. Invest.: R V MORRIS, J F BELL
Tech. Officer: JSC/R V MORRIS
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 3 52362 **CORNELL UNIV** **7030**
 NASA GRADUATE STUDENT RESEARCHERS PROGRAM NASA GRADUATE
 STUDENT RESEARCHERS PROGRAM
 06/07/2000 - 06/30/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: D KOCH
Tech. Officer: GRC/H K NAHRA
CASE Category: 43 - CHEMICAL ENGR

NGT 5 30038 **CORNELL UNIV** **7031**
 THE INTERNAL NITROGEN CYCLE OF TEMPERATURE FORESTS MECH-
 ANISMS IN THE ABSENCE OF HUMAN DISTURBANCE
 10/17/1996 - 08/31/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: L O HEDIN
Tech. Officer: GSFC/G ASRAR
CASE Category: 31 - ATMOSPHERIC SCIENCE

NGT 5 30126 **CORNELL UNIV** **7032**
 INTERFEROMETRIC SAR MEASUREMENTS OF SEISMIC & INTE R-SEISMIC
 STRAIN NEAR A MAJOR SEISMIC GAP INPERU
 10/10/1997 - 08/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: B ISACKS
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30210 **CORNELL UNIV** **7033**
 HAVE WE GROSSLY UNDERESTIMATED METHANE PRODUCTION &
 CONSUMPTION? APPLICATION OF A NEW STABLE ISOTOPE
 08/20/1999 - 08/31/2002 FY01: \$2,200 Total: \$46,200
Prin. Invest.: L O HEDIN
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 40019 **CORNELL UNIV** **7034**
 TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE
 AND FELLOWSHIP PROGRAM.
 01/06/1997 - 01/31/2001 FY01: -\$15,696 Total: \$1,789,304
Prin. Invest.: Y TERZIAN
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40078 **CORNELL UNIV** **7035**
 NEW YORK SPACE GRANT COLLEGE & FELLOWSHIP PROGRAM
 02/09/2001 - 01/31/2002 FY01: \$490,696 Total: \$490,696
Prin. Invest.: Y TERZIAN
Tech. Officer: GSFC/D D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50218 CORNELL UNIV 7036
 VOLUMETRIC ASSESSMENT OF FACTORS GOVERNING SEASONAL AND
 INTERANNUAL FLUXES OF PHYTOPLANKTON FROM
 09/17/1998 - 08/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: C H GREENE, FISHER
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 50270 CORNELL UNIV 7037
 PRE-AGGREGATION OF CELLS UNDER MICROGRAVITY CONDITIONS
 FOLLOWED BY TRANSPLANTATION INTO THE BRAIN
 07/23/1999 - 08/31/2000 FY01: \$0 Total: \$22,000
Prin. Invest.: M SALTZMAN
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50375 CORNELL UNIV 7038
 BONE ADAPTATION TO PRECISELY CONTROLLED CYCLIC LOADING
 (STUDENT: JAMES FRITTON)
 06/29/2001 - 07/31/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: M H VAN DER MUELEN
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 8 52897 CORNELL UNIV 7039
 UNDERSTANDING THE COVARIABILITY OF AFRICAN AND INDIAN SUMMER
 RAINFALL
 05/25/2001 - 07/01/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: K H COOK
Tech. Officer: MSFC/S NASH-STEVENSON
CASE Category: 31 - ATMOSPHERIC SCIENCE

NGT 9 16 CORNELL UNIV 7040
 SELECTION & CHARACTERIZATION OF VEGETATION CROP CULTIVARS ...
 05/16/1997 - 09/30/2000 FY01: \$0 Total: \$69,000
Prin. Invest.: R W LANGHANS
Tech. Officer: JSC/D G SICKOREZ
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT10 52623 CORNELL UNIV 7041
 GRADUATE STUDENT RESEARCHER'S PROGRAM
 08/23/1999 - 08/30/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: L ALBRIGHT
Tech. Officer: KSC/R WHEELER
CASE Category: 55 - AGRICULTURE

NAG13 00007 FULTON-MONTGOMERY COMMUNITY COLLEGE 7042
 SPATIAL INFORMATION TECHNOLOGY CENTER AT FULTON-MONTGOMERY
 COMMUNITY COLLEGE
 03/23/2000 - 03/26/2001 FY01: \$0 Total: \$375,000
Prin. Invest.: M PRESTOPNIK
Tech. Officer: SSC/D L POWE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 7503 HOFSTRA UNIV 7043
 OCEAN SURFACE STRESS MEASUREMENTS USING SATELLITE SCATTEROMETERS
 06/09/1998 - 12/31/2000 FY01: \$0 Total: \$256,223
Prin. Invest.: D E WEISSMAN
Tech. Officer: GSFC/E J LINDSTROM
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 8 1259 HUNTER COLL OF THE CITY UNIV OF NY 7044
 JOVE RESEARCH
 01/17/1997 - 08/31/2000 FY01: -\$531 Total: \$207,469
Prin. Invest.: L COHEN, S GREENBAUM, P COMBS
Tech. Officer: MSFC/J F DOWDY, MSFC/J R PRUITT
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9311 INTER AMERICAN UNIV OF PR AGUADILLA CAMP 7045
 PRECOLLEGE AWARENESS IN MATH AND SCIENCE PROGRAM
 03/22/2000 - 02/28/2002 FY01: \$77,027 Total: \$172,161
Prin. Invest.: R GONZALEZ
Tech. Officer: HQ/M STOUTSENBERGER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9889 MARIST COLLEGE 7046
 PERSISTENCE & INFECTIVITY OF CYANOPHAGE FROM POLAR ENVIRONMENTS:
 IMPLICATIONS FOR PLANETARY PROTECTION
 08/30/2000 - 06/30/2001 FY01: \$0 Total: \$70,650
Prin. Invest.: R KEPNER
Tech. Officer: GSFC/M MEYER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9256 MEDGAR EVERS COLLEGE 7047
 MEDGAR EVERS COLLEGE AERONAUTICS AND EARTH SCIENCE ACADEMY
 03/15/2000 - 02/28/2002 FY01: \$100,000 Total: \$200,000
Prin. Invest.: L JOHNSON
Tech. Officer: HQ/M STOUTSENBERGER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10142 MEDGAR EVERS COLLEGE 7048
 THE NEW YORK CITY SPACE SCIENCE RESEARCH ALLIANCE
 12/19/2000 - 12/31/2001 FY01: \$245,000 Total: \$245,000
Prin. Invest.: L P JOHNSON
Tech. Officer: GSFC/P SAKIMOTO
CASE Category: 11 - ASTRONOMY

NAG 2 946 MT SINAI SCH OF MED OF THE CUNY 7049
 ANATOMICAL STUDIES OF CENTRAL VESTIBULAR ADAPTATION
 01/10/1995 - 09/30/2001 FY01: \$0 Total: \$694,832
Prin. Invest.: G R HOLSTEIN, G R HOLSTEIN
Tech. Officer: ARC/W E HINDS, ARC/C M WINGET
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 2 1191 MT SINAI SCH OF MED OF THE CUNY 7050
 NITRIC OXIDE SIGNALING IN HYPERGRAVITY INDUCED NEURONAL PLASTICITY
 03/23/1998 - 08/31/2002 FY01: \$0 Total: \$636,166
Prin. Invest.: G R HOLSTEIN, G P MARTINELLI
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 5 6276 MT SINAI SCH OF MED OF THE CUNY 7051
 VESTIBULAR INFLUENCES ON AUTONOMIC CARDIOVASCULAR
 09/08/1997 - 12/31/2001 FY01: \$0 Total: \$848,810
Prin. Invest.: H KAUFMANN
Tech. Officer: GSFC/V SCHNEIDER
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 9 1097 **MT SINAI SCH OF MED OF THE CUNY** **7052**
 ARTCT AND MECH FUNDTION W/RECOVERY FR DISUSE OSTEOPOROSIS
 04/01/1999 – 03/31/2001 FY01: \$0 Total: \$153,098
Prin. Invest.: M SCHAFFLER
Tech. Officer: JSC/C LLOYD
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAS 9 19441 **MT SINAI SCH OF MED OF THE CUNY** **7053**
 SPATIAL ORIENTATION OF VESTIBULO-OCULAR REFLEX AND VELOCITY
 STORAGE
 03/01/1996 – 09/30/2000 FY01: \$0 Total: \$1,779,665
Prin. Invest.: D COHEN, M.D., M DAI, M.D.
Tech. Officer: JSC/A M LEE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NCC 2 1173 **MT SINAI SCH OF MED OF THE CUNY** **7054**
 NEUROLAB COMPLETION PROPOSAL: ANATOMICAL STUDIES OF CENTRAL
 VESTIBULAR ADAPTATION
 04/17/2000 – 03/31/2002 FY01: \$0 Total: \$238,548
Prin. Invest.: G R HOLSTEIN
Tech. Officer: ARC/M F VASQUES, ARC/P D SAVAGE
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NCC 9 128 **MT SINAI SCH OF MED OF THE CUNY** **7055**
 VALIDATION CENTRIFUGATION AS A COUNTER MEASURE FOR OTOLITH
 DECONDITIONING DURIN SPACEFLIGHT
 06/14/2001 – 09/30/2004 FY01: \$100,000 Total: \$100,000
Prin. Invest.: S MOORE
Tech. Officer: JSC/M E ANDERSON
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 2 951 **NEW YORK UNIV** **7056**
 EFFECTS OF GRAVITY ON POSTNATL MOTOR DEVELOPMENT
 12/22/1994 – 07/31/2001 FY01: \$0 Total: \$878,767
Prin. Invest.: K D WALTON
Tech. Officer: ARC/W E HINDS
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 2 1426 **NEW YORK UNIV** **7057**
 GRAVITATION & DEVELOPMENT MOTRICITY
 07/26/2000 – 07/31/2001 FY01: \$0 Total: \$80,000
Prin. Invest.: K D WALTON
Tech. Officer: ARC/MM AVERNER, ARC/R D MACELROY
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 7583 **NEW YORK UNIV** **7058**
 JOINT CENTER FOR COMPUTATIONAL MODELING (JCCM)
 08/04/1998 – 12/31/2001 FY01: \$103,000 Total: \$203,000
Prin. Invest.: M BERGER
Tech. Officer: GSFC/D S SPICER
CASE Category: 21 – MATHEMATICS

NAG 5 8475 **NEW YORK UNIV** **7059**
 MODELING SOUTH PACIFIC ICE-OCEAN INTERACTIONS IN THE GLOBAL
 CLIMATE SYSTEM
 04/26/1999 – 04/30/2001 FY01: \$0 Total: \$45,065
Prin. Invest.: D M HOLLAND
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 9246 **NEW YORK UNIV** **7060**
 SENSITIVITY OF THE ATMOSPHERIC SHOWERS OF EXTREMEL Y HIGH
 ENERGY COSMIC RAYS TO UNKNOWN ASPECTS OF
 03/14/2000 – 03/14/2002 FY01: \$101,800 Total: \$194,118
Prin. Invest.: G FARRAR
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 9871 **NEW YORK UNIV** **7061**
 AN INVESTIGATION OF THE PREDICTABILITY OF THE NSIPP FORECAST
 SYSTEM
 08/08/2000 – 08/14/2002 FY01: \$100,000 Total: \$185,000
Prin. Invest.: R KLEEMAN
Tech. Officer: GSFC/M REINECKER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 9 1024 **NEW YORK UNIV** **7062**
 CANCER RISK MECHANISM FOLLOWING REPEATED EXPOSURE TO
 HIGH LET RADIATION
 06/04/1998 – 09/04/2001 FY01: \$71,334 Total: \$589,334
Prin. Invest.: F J BURNS
Tech. Officer: JSC/F A CUCINOTTA
CASE Category: 56 – MEDICL

NCC 2 5417 **NEW YORK UNIV** **7063**
 SOFTWARE FOR IMAGE DISCRIMINABILITY & QUALITY MODE LING
 02/15/2001 – 05/31/2001 FY01: \$63,912 Total: \$63,912
Prin. Invest.: M LANDY
Tech. Officer: ARC/A J AHUMADA, ARC/J B MULLIGAN
CASE Category: 69 – PSYCHOLOGY, OTHER

NGT 8 52893 **NEW YORK UNIV** **7064**
 NANOTOOLS FROM BIOLOGY: ANTIBODY TECHNOLOGY APPLIED TO
 CARBON NANOTUBE PROCESSING
 06/28/2000 – 08/31/2003 FY01: \$0 Total: \$22,000
Prin. Invest.: S WILSON, NONE
Tech. Officer: MSFC/S NASH-STEVEN
CASE Category: 12 – CHEMISTRY

NCC 8 182 **NIAGARA UNIV** **7065**
 ALGORITHM DEVELOPMENT AND SCIENCES ANALYSIS OF STANDARD
 DATA PRODUCTS FROM LIGHTNING INSTR. SPACE
 04/26/1999 – 07/31/2002 FY01: \$22,431 Total: \$67,514
Prin. Invest.: W BOECK
Tech. Officer: MSFC/R BLAKESLEE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 3 2533 **POLYTECHNIC UNIV – BROOKLYN,NY** **7066**
 REFLECTION & REFRACTION OF SOUND WAVES THROUGH GLOW
 DISCHARGES
 01/25/2001 – 12/31/2002 FY01: \$65,000 Total: \$65,000
Prin. Invest.: M OTUGEN
Tech. Officer: GRC/D B ZAMAN
CASE Category: 46 – MECHANICAL ENGR

NAG 8 1370 POLYTECHNIC UNIV - BROOKLYN,NY 7067
 R/S "DIFFUSION, VISCOSITY AND CRYSTAL GROWTH OF PROTEINS IN MICROGRAVITY"
 05/28/1997 - 02/28/2002 FY01: \$70,000 Total: \$431,000
Prin. Invest.: A MYERSON
Tech. Officer: MSFC/B GUYNES, MSFC/J MAYO
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1455 POLYTECHNIC UNIV - BROOKLYN,NY 7068
 R/S THERMODYNAMIC & SPECTROSCOPIC STUDIES OF SECONDARY NUCLEATION IN MICROGRAVITY
 02/01/1998 - 01/31/2002 FY01: \$76,000 Total: \$282,667
Prin. Invest.: A S MEYERSON
Tech. Officer: MSFC/C TALLEY
CASE Category: 43 - CHEMICAL ENGR

NGT 8 52879 POLYTECHNIC UNIV - BROOKLYN,NY 7069
 GRADUATE STUDENT RESEARCH PROGRAM DEVELOPMENT OF HEALTH MONITORING TECHNIQUES FOR AEROSPACE
 09/08/1999 - 08/31/2002 FY01: \$0 Total: \$22,000
Prin. Invest.: F LIN
Tech. Officer: MSFC/J DOWDY
CASE Category: 44 - CIVIL ENGR

NAG 1 1939 RENSSELAER POLYTECHNIC INST 7070
 THE DESIGN AND SYNTHESIS OF EPOXY MATRIX COMPOSITES CURABLE BY ELECTRON BEAM
 06/02/1997 - 03/06/2000 FY01: -\$1,638 Total: \$158,616
Prin. Invest.: J V CRIVELLO
Tech. Officer: LARC/J W CONNELL, LARC/N J JOHNSTON
CASE Category: 41 - AERONAUTICAL ENGR

NAG 1 2089 RENSSELAER POLYTECHNIC INST 7071
 EVOLUTION IN DECENTRALIZED EMERGENT COMPUTATION MY 1/2
 07/08/1998 - 05/30/2001 FY01: \$1 Total: \$264,639
Prin. Invest.: P HAJELA, K E JANSEN
Tech. Officer: LARC/J SOBIESKI, LARC/J R ROGERS
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 1834 RENSSELAER POLYTECHNIC INST 7072
 A STUDY OF THE CONSTRAINED VAPOR BUBBLE THROMOSYPHON
 04/22/1996 - 10/21/2000 FY01: \$0 Total: \$709,520
Prin. Invest.: P C WAYNER
Tech. Officer: GRC/J C DUH
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 3 2304 RENSSELAER POLYTECHNIC INST 7073
 STUDIES OF CYCLIC AND LINEAR CARBOSILANES AS SINGLE SOURCE SILICONE PRECURSORS
 12/13/1999 - 03/09/2000 FY01: -\$135 Total: \$4,865
Prin. Invest.: L V INTERRANTE
Tech. Officer: GRC/D LARKIN
CASE Category: 12 - CHEMISTRY

NAG 3 2334 RENSSELAER POLYTECHNIC INST 7074
 MINORITY ENGINEERING PROGRAM MINORITY ENGINEERING PROGRAM
 02/17/2000 - 08/31/2000 FY01: \$0 Total: \$50,000
Prin. Invest.: M D SMITH
Tech. Officer: GRC/S GOTT
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2351 RENSSELAER POLYTECHNIC INST 7075
 THEORETICAL AND EXPERIMENTAL INVESTIGATION OF THE STABILITY OF AN EVAPORATING CONSTRAINED VAPOR BUBBLE
 03/24/2000 - 11/30/2003 FY01: \$54,000 Total: \$81,500
Prin. Invest.: D C WAYNER
Tech. Officer: GRC/R SKARDA
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2383 RENSSELAER POLYTECHNIC INST 7076
 R & D WORK ON THE CONSTRAINED VAPOR BUBBLE SYSTEM FOR A MICROGRAVITY EXPERIMENT
 04/18/2000 - 04/21/2005 FY01: \$166,250 Total: \$314,250
Prin. Invest.: P C WAGNER
Tech. Officer: GRC/J SKARDA
CASE Category: 43 - CHEMICAL ENGR

NAG 3 2525 RENSSELAER POLYTECHNIC INST 7077
 THE PREPARATION OF SILICONE NANOTUBES & NANOLAYERS #207 -01 -253B
 01/17/2001 - 12/31/2001 FY01: \$127,311 Total: \$127,311
Prin. Invest.: D INTERRANTE
Tech. Officer: GRC/D LARKIN
CASE Category: 12 - CHEMISTRY

NAG 3 2552 RENSSELAER POLYTECHNIC INST 7078
 MINORITY ENGINEERING PROGRAM MINORITY ENGINEERING PROGRAM
 03/06/2001 - 12/01/2001 FY01: \$30,000 Total: \$30,000
Prin. Invest.: M D SMITH
Tech. Officer: GRC/T ROGERS
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 3725 RENSSELAER POLYTECHNIC INST 7079
 METEORITE SPECTROSCOPY AND CHARACTERIZATION OF ASTEROID MATERIALS
 02/12/1997 - 02/14/2001 FY01: \$0 Total: \$164,250
Prin. Invest.: M J GAFFEY
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 4557 RENSSELAER POLYTECHNIC INST 7080
 A LABORATORY INVESTIGATION OF PHOTOCHEMICAL PROCESSES
 06/23/1997 - 10/31/2000 FY01: \$0 Total: \$406,120
Prin. Invest.: D P FERRIS
Tech. Officer: GSFC/M MEYER
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 5 7598 RENSSELAER POLYTECHNIC INST 7081
 ORIGIN OF LIFE: INTERSTELLAR MOLECULES TO INTRONS
 07/15/1998 - 12/31/2001 FY01: \$953,000 Total: \$2,800,218
Prin. Invest.: D P FERRIS
Tech. Officer: GSFC/M A MEYER
CASE Category: 11 - ASTRONOMY

NAG 5 7884 RENSSELAER POLYTECHNIC INST 7082
 THE NATURE AND EVOLUTION OF INTERSTELLAR & CIRCUMSTELLAR ICES & ORGANIC MATTER
 12/01/1998 - 12/31/2001 FY01: \$16,380 Total: \$47,724
Prin. Invest.: D C WHITTET
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8976 RENSSELAER POLYTECHNIC INST 7083
 PARTICIPATING SCIENTIST: ANALYSIS OF THE MSI/NIS SPECTRA OF EROS
 01/24/2000 - 03/31/2002 FY01: \$0 Total: \$70,887
Prin. Invest.: M J GAFFEY
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 - ASTRONOMY

NAG 5 9148 RENSSELAER POLYTECHNIC INST 7084
 AN INVENTORY OF CARBONACEOUS MOLECULES IN INTERSTELLAR ICES
 & THEIR RELATION TO COMETS
 03/03/2000 - 03/14/2002 FY01: \$55,900 Total: \$108,558
Prin. Invest.: D WHITTET
Tech. Officer: GSFC/M MEYER
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 5 9607 RENSSELAER POLYTECHNIC INST 7085
 A LABORATORY INVESTIGATION OF PHOTOCHEMICAL PROCES SES ON
 TITAN
 05/12/2000 - 05/14/2002 FY01: \$133,000 Total: \$266,000
Prin. Invest.: J P FERRIS
Tech. Officer: GSFC/M MEYER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10345 RENSSELAER POLYTECHNIC INST 7086
 CHARACTERIZATIONS OF ASTEROID_SURFACE MATERIALS: METEORITE
 PARENT BODIES & ASTEROID EVOLUTIONA
 02/01/2001 - 02/14/2002 FY01: \$50,000 Total: \$50,000
Prin. Invest.: D J GAFFEY
Tech. Officer: GSFC/D SENSKE
CASE Category: 11 - ASTRONOMY

NAG 8 1290 RENSSELAER POLYTECHNIC INST 7087
 "INVESTIGATIONS OF FREE STREAM FLOW TECHNOLOGIES"
 12/18/1996 - 09/30/2000 FY01: \$0 Total: \$525,669
Prin. Invest.: L N MYRABO
Tech. Officer: MSFC/G A ROBERSTON
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1468 RENSSELAER POLYTECHNIC INST 7088
 R/S EVOLUTION OF LOCAL MICROSTRUCTURES SPATIAL INSTABILITIES OF
 CORSENING CLUSTERS
 02/24/1998 - 03/23/2002 FY01: \$142,500 Total: \$401,259
Prin. Invest.: M E GLICKSMAN
Tech. Officer: MSFC/L B JETER
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1488 RENSSELAER POLYTECHNIC INST 7089
 R/S TRANSIENT DENDRITIC SOLIDIFICATION EXPERIMENT
 02/24/1998 - 02/23/2002 FY01: -\$13,344 Total: \$374,256
Prin. Invest.: M B KOSS, M E GLICKSMAN
Tech. Officer: MSFC/A JACKMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1696 RENSSELAER POLYTECHNIC INST 7090
 FOLLOW-ON RESEARCH ACTIVITIES FOR THE RENSSELAER ISOTHERMAL
 DENDRITIC GROWTH EXPERIMENT (RIDGE)
 05/15/2000 - 11/30/2003 FY01: \$95,000 Total: \$135,000
Prin. Invest.: M E GLICKSMAN, M B KOSS
Tech. Officer: MSFC/P M DOTY
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 8 1795 RENSSELAER POLYTECHNIC INST 7091
 EXPERIMENTAL INVESTIGATION INTO ADVANCED PROPULSION FORTH
 GENERATION SPACE TRANSPORTATION
 04/12/2001 - 03/31/2004 FY01: \$99,000 Total: \$99,000
Prin. Invest.: L N MYRABO, H NAGAMATSU
Tech. Officer: MSFC/J W LEHNER
CASE Category: 46 - MECHANICAL ENGR

NAS 3 25368 RENSSELAER POLYTECHNIC INST 7092
 ISOTHERMAL DENDRITIC GROWTH
 12/15/1988 - 12/31/1999 FY01: -\$18,173 Total: \$3,612,729
Prin. Invest.: M E GLICKSMAN
Tech. Officer: GRC/E A WINSA, GRC/G A KRAFT
CASE Category: 47 - METAL & MATERIALS ENGR

NGT 1 52160 RENSSELAER POLYTECHNIC INST 7093
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
 09/22/1997 - 09/21/2000 FY01: -\$23,491 Total: \$42,509
Prin. Invest.: K E JARSEN
Tech. Officer: LARC/M H CARPENTER
CASE Category: 46 - MECHANICAL ENGR

NGT 3 52341 RENSSELAER POLYTECHNIC INST 7094
 POWDER LUBRICATED JOURNAL BEARING DEVELOPMENT
 06/29/1998 - 08/31/2001 FY01: \$0 Total: \$64,000
Prin. Invest.: J A TICHY
Tech. Officer: GRC/D MONTEGANI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50165 RENSSELAER POLYTECHNIC INST 7095
 SCALABLE INSTRUMENTATION AND DATABASE APPROCAH TO
 PERFORMANCE ANALYSIS OF PARALLEL SCIENTIFIC APPLI
 06/03/1999 - 06/30/2001 FY01: \$0 Total: \$44,000
Prin. Invest.: B SZMANSKI
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 3 2484 ROCHESTER INST OF TECHNOLOGY 7096
 SPIN-ON GLASSY ELECTROLYTES FOR THIN-FILM MICROELE CTRONIC
 BATTERIES
 09/11/2000 - 11/30/2002 FY01: \$34,637 Total: \$46,182
Prin. Invest.: D P RAFFAELLE
Tech. Officer: GRC/N HAGEDORN
CASE Category: 12 - CHEMISTRY

NAG 3 2593 ROCHESTER INST OF TECHNOLOGY 7097
 DEVELOPMENT OF ADVANCED GRAVITY-INDEPENDENT HIGH H EAT FLUX
 PHASE CHANGE HEAT EXCHANGER TECH & DESIG
 05/11/2001 - 06/30/2003 FY01: \$42,462 Total: \$42,462
Prin. Invest.: D RAFFAELLE
Tech. Officer: GRC/S BAILEY
CASE Category: 13 - PHYSICS

NAG 3 2595 ROCHESTER INST OF TECHNOLOGY 7098
 QUANTUM DOT DEVICE CHARACTERIZATION AND DEVELOPMEN T
 04/30/2001 - 05/31/2004 FY01: \$50,000 Total: \$50,000
Prin. Invest.: D P RAFFAELLE
Tech. Officer: GRC/S BAILEY
CASE Category: 13 - PHYSICS

NAG 3 2596 ROCHESTER INST OF TECHNOLOGY 7099
 SIC SOLAR CELLS SIC SOLAR CELLS
 04/30/2001 – 05/31/2002 FY01: \$36,889 Total: \$36,889
Prin. Invest.: D RAFFAELLE
Tech. Officer: GRC/S BAILEY
CASE Category: 13 – PHYSICS

NAG 5 3443 ROCHESTER INST OF TECHNOLOGY 7100
 ABSOLUTE CALIBRATION, ATMOSPHERIC CORRECTION AND A PPLICATION
 OF LANDSAT-7 ETM +THERMAL INFRARED...
 11/03/1996 – 06/30/2001 FY01: \$52,142 Total: \$828,520
Prin. Invest.: J SCHOTT
Tech. Officer: GSFC/D L WILLIAMS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 3728 ROCHESTER INST OF TECHNOLOGY 7101
 DEVELOPMENT OF BACK ILLUMINATED PREAMP PER PIXEL DEVICE
 ARRAYS
 02/21/1997 – 12/31/2000 FY01: \$0 Total: \$367,451
Prin. Invest.: D NINKOV
Tech. Officer: GSFC/H HASAN
CASE Category: 11 – ASTRONOMY

NAG 5 9090 ROCHESTER INST OF TECHNOLOGY 7102
 A PROGRAM TO DEVELOP HYBRIDIZED 2K X 2K SI PIN ARRAYS FOR SPACE
 02/17/2000 – 01/31/2002 FY01: \$350,000 Total: \$679,700
Prin. Invest.: Z NINKOV
Tech. Officer: GSFC/P CRANE
CASE Category: 11 – ASTRONOMY

NAG 5 10051 ROCHESTER INST OF TECHNOLOGY 7103
 FOREST FIRES IMAGING EXPERIMENT SYSTEMS
 09/29/2000 – 08/31/2002 FY01: \$1,598,227 Total: \$2,275,275
Prin. Invest.: A VODECEK
Tech. Officer: GSFC/T D GUBBELS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 11009 ROCHESTER INST OF TECHNOLOGY 7104
 SYNERGISTIC APPLICATIONS OF EO-1 AND LANDSAT 7 FOR CANOPY
 TEMPERA
 06/06/2001 – 06/14/2003 FY01: \$69,997 Total: \$69,997
Prin. Invest.: D SCHOTT
Tech. Officer: GSFC/J A SMITH
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 11298 ROCHESTER INST OF TECHNOLOGY 7105
 YEAR ONE OF SOLICITED PROPOSAL ENTITLED,"LANDSAT RADIOMETRIC
 CALIBRATION: TOWARDS A 20 YEAR RECORD
 08/29/2001 – 08/31/2004 FY01: \$94,989 Total: \$94,989
Prin. Invest.: J SCHOTT
Tech. Officer: GSFC/B L MARKHAM
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 3 786 ROCHESTER INST OF TECHNOLOGY 7106
 INTEGRATED POWER SOURCES INTEGRATED POWER SOURCES
 03/23/2000 – 04/30/2003 FY01: \$25,000 Total: \$75,000
Prin. Invest.: D P RAFAELLE
Tech. Officer: GRC/A F HEPP
CASE Category: 13 – PHYSICS

NCC 3 806 ROCHESTER INST OF TECHNOLOGY 7107
 SOLID STATE LITHIUM POLYMER ELECTROLYTE DEVELOPMEN T
 06/07/2000 – 05/31/2001 FY01: \$0 Total: \$50,000
Prin. Invest.: D P RAFFAELLE
Tech. Officer: GRC/A F HEPP
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NCC 3 807 ROCHESTER INST OF TECHNOLOGY 7108
 THIN FILM SOLAR CELL PROCESSING AND DEVELOPMENT THIN FILM
 SOLAR CELL PROCESSING AND DEVELOPMENT
 06/07/2000 – 05/31/2001 FY01: \$0 Total: \$70,000
Prin. Invest.: D P RAFFAELLE
Tech. Officer: GRC/A HEPP
CASE Category: 13 – PHYSICS

NCC13 98001 ST U NY COLL OF ENVIR SCI & FORESTRY 7109
 A CENTER FOR EXPLORING AND DEVELOPING COMMERCIAL APPLICA-
 TIONS OF REMOTE SENSING AND GEO-SPATIAL TEC
 09/01/1998 – 03/31/2002 FY01: \$150,000 Total: \$500,000
Prin. Invest.: P HOPKINS
Tech. Officer: SSC/N SOVIK
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG13 01003 ST U NY COLL OF ENVIR SCI & FORESTRY 7110
 APPLYING REMOTE SENSING TO FOREST MANAGEMENT IN ST ATE AGEN-
 CIES
 06/01/2001 – 05/31/2002 FY01: \$449,010 Total: \$449,010
Prin. Invest.: P HOPKINS
Tech. Officer: SSC/N SOVIK
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6227 STATE UNIV OF NEW YORK – ALBANY 7111
 DETECTING INTERACTIONS BETWEEN VEGETATION AND THE THE NORTH-
 EASTERN UNITED STATES
 09/12/1997 – 12/31/2001 FY01: \$12,801 Total: \$296,085
Prin. Invest.: D R FITZJARRALD
Tech. Officer: GSFC/D WICKLAND
CASE Category: 11 – ASTRONOMY

NAG 5 7469 STATE UNIV OF NEW YORK – ALBANY 7112
 CASE STUDY INVESTIGATIONS OF LARGE-AMPLITUDE INERT IA-GRAVITY
 WAVEENVIRONMENTS AND MESOSCALE
 06/03/1998 – 06/30/2001 FY01: \$0 Total: \$129,936
Prin. Invest.: L BOSART
Tech. Officer: GSFC/A NEGRI
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 8815 STATE UNIV OF NEW YORK – ALBANY 7113
 GENETIC COMPLEXITY IN THE RNA WORLD: AN EXAMINATIO N OF THE
 GENETIC LOAD IN RNA POPULATIONS
 10/06/1999 – 09/30/2001 FY01: \$75,360 Total: \$155,360
Prin. Invest.: N E LEHMAN
Prin. Invest.: NONE
Tech. Officer: GSFC/M MEYER
CASE Category: 11 – ASTRONOMY

NAG 5 9676 STATE UNIV OF NEW YORK - ALBANY 7114
 TECHNOLOGY & POLICY ASPECTS OF APPLYING REMOTE SENSING TO
 FOREST MANAGEMENT IN STATE AGENCIES
 05/31/2000 - 05/31/2001 FY01: \$0 Total: \$275,000
Prin. Invest.: P F HOPKINS
Tech. Officer: GSFC/A J TUYAHOV
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9690 STATE UNIV OF NEW YORK - ALBANY 7115
 DEVELOPING & TESTING OF NEW TECHNIQUES FOR CONSER- VATIONAL
 BIOGEOPHYSICAL MINERALEXPLORATION
 06/19/2000 - 11/30/2001 FY01: \$0 Total: \$114,589
Prin. Invest.: H MASSONE
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 9764 STATE UNIV OF NEW YORK - ALBANY 7116
 MARS LANDING SITE STUDIES
 06/27/2000 - 06/30/2001 FY01: -\$40,000 Total: \$0
Prin. Invest.: J A GRANT
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 11008 STATE UNIV OF NEW YORK - ALBANY 7117
 RELATIONSHIP BETWEEN CORE CONVECTIVE STRUCTURE AND
 INTENSITY CHANGE IN TROPICAL CYCLONES
 06/06/2001 - 06/14/2002 FY01: \$80,000 Total: \$80,000
Prin. Invest.: J MOLINARI
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAS 1 18942 STATE UNIV OF NEW YORK - ALBANY 7118
 SAGE III SCIENCE SUPPORT - P.I. - DR. V. MOHNEN
 01/31/1990 - 01/31/2005 FY01: \$70,000 Total: \$587,630
Prin. Invest.: V MOHNEN
Tech. Officer: LARC/G L MADDREA, LARC/L R MCMASTER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 2 5212 STATE UNIV OF NEW YORK - ALBANY 7119
 REVIEW QUALITY ASSURANCE AND APPLICATION OF GLOBAL
 ATMOSPHERIC RADON DATA
 04/03/1997 - 05/31/2000 FY01: \$0 Total: \$44,698
Prin. Invest.: M KRITZ
Tech. Officer: ARC/L PFISTER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 2 5380 STATE UNIV OF NEW YORK - ALBANY 7120
 A PRELIMINARY TEST OF THE CO2 RECTIFIER HYPOTHESIS USING
 EXISTING UPPER TROPOSPHERIC MEASUREMENTS...
 04/15/2000 - 04/14/2002 FY01: \$24,410 Total: \$48,710
Prin. Invest.: M KRITZ
Tech. Officer: ARC/L PFISLER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 3 891 STATE UNIV OF NEW YORK - ALBANY 7121
 POLYTYPE MAPPING AND DEFECT CHARACTERIZATION IN SILICON
 CARBIDE HETEROEPITAXIAL STRUCTURES
 06/04/2001 - 05/02/2002 FY01: \$55,000 Total: \$55,000
Prin. Invest.: D DUDLEY
Tech. Officer: GRC/P NEUDECK
CASE Category: 45 - ELECTRICAL ENGR

NCC 5 283 STATE UNIV OF NEW YORK - ALBANY 7122
 PERIODIC, TRANSIENT, AND SPATIALLY INHOMOGENEOUS I NFLUENCES
 ONC EXCHANGE IN AMAZONIA
 06/23/1998 - 12/31/2001 FY01: \$284,620 Total: \$1,157,862
Prin. Invest.: D R FRITZJARRALD, NONE
Tech. Officer: GSFC/D W DEERING
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 8 125 STATE UNIV OF NEW YORK - ALBANY 7123
 RESEARCH BRINGING GREATLY ENHANCED LAB-BASED PROTEIN CRYSTALLOGRAPHY TO THE US BIOTECHNOLOGY
 01/16/1997 - 01/14/2001 FY01: \$0 Total: \$2,075,346
Prin. Invest.: W M GIBSON
Tech. Officer: MSFC/K HIGGINBOTHAN
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 5 9069 STATE UNIV OF NEW YORK - BINGHAMTON 7124
 USE OF ROTATIONAL & GRAVITATIONAL OBSERVATIONS TO INFER CORE-
 MANTLE COUPLING & LONG TIDAL PERIODS
 03/08/2000 - 02/28/2002 FY01: \$65,750 Total: \$107,000
Prin. Invest.: S DICKMAN
Tech. Officer: GSFC/H FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NCC 1 336 STATE UNIV OF NEW YORK - BINGHAMTON 7125
 RELIABILITY CRITERIA-BASED FLIGHT SYSTEM CONTROL MY 1/3
 04/30/1999 - 01/31/2002 FY01: \$59,559 Total: \$159,254
Prin. Invest.: N WU
Tech. Officer: LARC/C M BELCASTRO, LARC/C M BELCASTRO
CASE Category: 41 - AERONAUTICAL ENGR

NAG 1 2238 STATE UNIV OF NEW YORK - BUFFALO 7126
 FILTERED MASS DENSITY FUNCTION FOR DESIGN SIMU- LATIONS OF
 HIGH SPEED AIRBREATHING PROPULSION SYS.
 09/20/1999 - 08/31/2002 FY01: \$30,000 Total: \$67,500
Prin. Invest.: P GIVI
Tech. Officer: LARC/J P DRUMMOND
CASE Category: 46 - MECHANICAL ENGR

NAG 2 1429 STATE UNIV OF NEW YORK - BUFFALO 7127
 A NEW SEMI-ACTIVE APPROACH FOR DYNAMIC RESPONSE MO DIFICA-
 TION OF HELICOPTERS
 08/11/2000 - 08/31/2002 FY01: \$0 Total: \$46,994
Prin. Invest.: G LEE
Tech. Officer: ARC/C TUNG
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2225 STATE UNIV OF NEW YORK - BUFFALO 7128
 LARGE EDDY SIMULATION OF GRAVITATIONAL EFFECTS ON TRANSITIONAL
 AND TURBULENT GAS-JET DIFFUSION FLAME
 01/22/1999 - 12/10/2002 FY01: \$96,790 Total: \$263,911
Prin. Invest.: D GIVI
Tech. Officer: GRC/K R SACKSTEDER
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 9390 STATE UNIV OF NEW YORK - BUFFALO 7129
 THE PLANETARY GEOLOGY AND GEOPHYSICS UNDERGRADUATE
 RESEARCH PROGRAM
 04/04/2000 - 04/14/2002 FY01: \$68,600 Total: \$148,600
Prin. Invest.: T GREGG
Tech. Officer: GSFC/J A GRANT
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 9619 STATE UNIV OF NEW YORK - BUFFALO 7130
VOLCANIC EVOLUTION & EROSIONAL HISTORY OF TYRRHENA &
HADRIACA PATERAE, MARS
05/18/2000 - 05/14/2003 FY01: \$55,000 Total: \$109,200
Prin. Invest.: T GREGG
Tech. Officer: GSFC/J BOYCE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9658 STATE UNIV OF NEW YORK - BUFFALO 7131
DEVELOPMENT OF A ROVER-DEPLOYED GROUND PENETRATING RADAR
05/31/2000 - 11/30/2000 FY01: -\$169,387 Total: \$0
Prin. Invest.: J GRANT
Tech. Officer: GSFC/B BETTS
CASE Category: 11 - ASTRONOMY

NAG 5 9873 STATE UNIV OF NEW YORK - BUFFALO 7132
A NEW CLASS OF UNNATURAL FOLDING OLIGOMERS: HELICES WITH
NANO-SIZED CAVITIES
08/10/2000 - 08/31/2002 FY01: \$139,567 Total: \$233,822
Prin. Invest.: B GONG
Tech. Officer: GSFC/S DAVISON
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10608 STATE UNIV OF NEW YORK - BUFFALO 7133
REMOTE SENSING OF GROUND WATER: CALIBRATION OF ENVIRONMENTAL
GROUNDWATER FLOW MODELS TO SATELL
03/15/2001 - 03/14/2002 FY01: \$115,418 Total: \$115,418
Prin. Invest.: M BECKER
Tech. Officer: GSFC/M BECKER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 1 01034 STATE UNIV OF NEW YORK - BUFFALO 7134
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) MY 1/2
06/22/2001 - 06/30/2003 FY01: \$22,000 Total: \$22,000
Prin. Invest.: K LEWIS
Tech. Officer: LARC/S L PADULA
CASE Category: 49 - ENGINEERING, OTHER

NGT 1 52185 STATE UNIV OF NEW YORK - BUFFALO 7135
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
05/12/1998 - 06/30/2002 FY01: \$12,000 Total: \$66,001
Prin. Invest.: K E LEWIS
Tech. Officer: LARC/J SOBIESKI
CASE Category: 41 - AERONAUTICAL ENGR

NGT 1 52228 STATE UNIV OF NEW YORK - BUFFALO 7136
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
04/18/2000 - 12/31/2001 FY01: \$1 Total: \$22,001
Prin. Invest.: K E LEWIS, T J HALECKI
Tech. Officer: LARC/S L PADULA
CASE Category: 49 - ENGINEERING, OTHER

NAG 1 2040 STATE UNIV OF NEW YORK - STONY BROOK 7137
SPARC DATA CENTER MY 1/3
03/27/1998 - 12/31/2000 FY01: \$1 Total: \$179,288
Prin. Invest.: M A GELLER
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 2065 STATE UNIV OF NEW YORK - STONY BROOK 7138
OCEAN BUOY SHORTWAVE (OBS): A DATA SET FOR SATELLITE RETRIEVAL
AND GCM VALIDATION
05/01/1998 - 11/30/2000 FY01: \$1 Total: \$126,278
Prin. Invest.: R A WALISER
Tech. Officer: LARC/D S MCDUGAL, LARC/J L RAPER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 2166 STATE UNIV OF NEW YORK - STONY BROOK 7139
SAGE II RESEARCH ON THE CONTROLLING PROCESSES OF UPPER
TROPOSPHERIC & STRATOSPHERIC WATER VAPOR
03/17/1999 - 06/14/2002 FY01: \$106,000 Total: \$273,000
Prin. Invest.: M A GELLER
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 01052 STATE UNIV OF NEW YORK - STONY BROOK 7140
CENTER FOR EMERGING TECHNOLOGIES: LONG ISLAND TECHNOLOGY
CENTER
03/30/2001 - 04/14/2003 FY01: \$997,800 Total: \$997,800
Prin. Invest.: Y SHAMASH
Tech. Officer: LARC/R R ANTCLIFF
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 2 1325 STATE UNIV OF NEW YORK - STONY BROOK 7141
APPLICATIONS OF COMPUTATIONAL GEOMETRY IN AIR TRAFFIC MANAGE-
MENT
05/19/1999 - 05/31/2002 FY01: \$35,000 Total: \$85,000
Prin. Invest.: J S MITCHELL
Tech. Officer: ARC/G MEYER
CASE Category: 49 - ENGINEERING, OTHER

NAG 2 1379 STATE UNIV OF NEW YORK - STONY BROOK 7142
EFFECT OF SIMULATED MICROGRAVITY ON ACTIVATED T CELL GENE
TRANSCRIPTION
08/16/1999 - 08/31/2002 FY01: \$82,597 Total: \$206,623
Prin. Invest.: M A MORROW
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 2 1517 STATE UNIV OF NEW YORK - STONY BROOK 7143
ELUCIDATING THE MOLECULAR EVENTS OF BONE MECHANORECEPTION
08/31/2001 - 08/14/2002 FY01: \$139,589 Total: \$139,589
Prin. Invest.: M HADJIARYROU
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 5 2863 STATE UNIV OF NEW YORK - STONY BROOK 7144
THE COMPOSITION, STRUCTURE AND EVOLUTION OF NEUTRON STARS
01/06/1995 - 09/30/1999 FY01: -\$152 Total: \$220,846
Prin. Invest.: J M LATTIMER
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 3135 STATE UNIV OF NEW YORK - STONY BROOK 7145
CONSISTENCY STUDY OF THE ENHANCED SHORTWAVE CLOUD ABSORP-
TION USING GEBDA DATA
11/03/1995 - 05/14/2000 FY01: \$0 Total: \$118,349
Prin. Invest.: M ZHANG
Tech. Officer: GSFC/M DAH
CASE Category: 11 - ASTRONOMY

NAG 5 3261 STATE UNIV OF NEW YORK – STONY BROOK 7146
 THE GASEOUS CONTENT OF THE UNIVERSE AT Z
 06/10/1996 – 04/30/2001 FY01: \$0 Total: \$164,000
Prin. Invest.: K M LANZETTA
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 3718 STATE UNIV OF NEW YORK – STONY BROOK 7147
 LABORATORY SPECTROSCOPIC MEASUREMENTS RELEVANT TO RESEARCH
 01/24/1997 – 02/28/2002 FY01: \$93,671 Total: \$437,365
Prin. Invest.: D VARANABI
Tech. Officer: GSFC/M J KURYLO
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 3950 STATE UNIV OF NEW YORK – STONY BROOK 7148
 OPTIMIZATION OF A BIOCHEMICAL COUNTERMEASURE
 02/12/1997 – 02/14/2002 FY01: \$0 Total: \$1,047,235
Prin. Invest.: C T RUBIN
Tech. Officer: GSFC/V SCHNEIDER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 4043 STATE UNIV OF NEW YORK – STONY BROOK 7149
 CIO MEASUREMENTS AND ANALYSIS IN THE NETWORK FOR T STRATO-
 SPHERIC CHANGE
 05/06/1997 – 12/31/2001 FY01: \$283,935 Total: \$1,397,451
Prin. Invest.: P SOLOMON
Tech. Officer: GSFC/M J KURYLO
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4071 STATE UNIV OF NEW YORK – STONY BROOK 7150
 STRATOPHERIC AND MESOSPHERIC TRACE GAS STUDIES USI MM-WAVE
 RECEIVERS
 03/21/1997 – 12/31/2001 FY01: \$0 Total: \$555,549
Prin. Invest.: R L DE ZAFRA
Tech. Officer: GSFC/M J KURYLO
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 4640 STATE UNIV OF NEW YORK – STONY BROOK 7151
 THE STABILITY OF ORBITAL CONFIGURATIONS AND THE UL OF PLANETARY
 AND SATELLITESYSTEMS
 06/09/1997 – 03/31/2001 FY01: \$0 Total: \$135,000
Prin. Invest.: D J LISSAUER
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 6544 STATE UNIV OF NEW YORK – STONY BROOK 7152
 ORBITS OF SATURN'S INNER MOONS AND OTHER OBSERVATI ONS
 CONNECTED WITH THE1995-1996 SATURNIAN RING PL
 10/24/1997 – 12/31/2000 FY01: -\$1 Total: \$76,999
Prin. Invest.: D LISSAUER
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 – ASTRONOMY

NAG 5 6565 STATE UNIV OF NEW YORK – STONY BROOK 7153
 COLLABORATIVE RESEARCH: MODELING OF N2 AND CO2 FI XATION BY
 THE OCEANIC DIAZOTROPH TRICHODESMIUM
 11/03/1997 – 10/31/2000 FY01: \$0 Total: \$143,240
Prin. Invest.: E CARPENTER
Tech. Officer: GSFC/J CAMPBELL
CASE Category: 11 – ASTRONOMY

NAG 5 6601 STATE UNIV OF NEW YORK – STONY BROOK 7154
 DEVELOPMENT AND VALIDATION OF A TROPICAL ISOPRENE EMISSION
 MODEL
 12/09/1997 – 03/31/2002 FY01: \$0 Total: \$117,349
Prin. Invest.: M LERDAU
Tech. Officer: GSFC/D WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6879 STATE UNIV OF NEW YORK – STONY BROOK 7155
 STUDIES OF EXCITED SPECIES IN PLANETARY UPPER ATMO SPHERES
 01/30/1998 – 05/14/2002 FY01: \$90,338 Total: \$266,738
Prin. Invest.: J L FOX
Tech. Officer: GSFC/D BOGAN
CASE Category: 11 – ASTRONOMY

NAG 5 7134 STATE UNIV OF NEW YORK – STONY BROOK 7156
 UARS INVESTIGATIONS OF WAVE-COUPPLING IN THE MIDDLE
 ATMOSPHERE
 03/03/1998 – 02/14/2001 FY01: \$0 Total: \$225,003
Prin. Invest.: D A GELLER
Tech. Officer: GSFC/A DOUGLASS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 7439 STATE UNIV OF NEW YORK – STONY BROOK 7157
 EARTH REMOTE SENSING FACILITIES FOR RESEARCH AND TEACHING AT
 THE STATE UNIV OF NEW YORK
 05/27/1998 – 08/31/2000 FY01: \$0 Total: \$99,921
Prin. Invest.: M GELLER
Tech. Officer: GSFC/M Y WEI
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 7875 STATE UNIV OF NEW YORK – STONY BROOK 7158
 2+D MODELING EFFORTS FOR SUPERSONIC AIRCRAFT EFFEC TS ON THE
 ATMOSPHERE NEW GRANT
 11/30/1998 – 05/31/2000 FY01: -\$1 Total: \$49,999
Prin. Invest.: M GELLER
Tech. Officer: GSFC/R W STEWART
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 7978 STATE UNIV OF NEW YORK – STONY BROOK 7159
 A COMPREHENSIVE STUDY OF NEUTRON STAR PHOTOSPHERES _
 (LTSA98)
 01/06/1999 – 12/31/2001 FY01: \$75,000 Total: \$178,000
Prin. Invest.: F M WALTER
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 8106 STATE UNIV OF NEW YORK – STONY BROOK 7160
 COSMIC RAYS IN INTERPLANETARY SPACE
 02/04/1999 – 05/15/2001 FY01: \$0 Total: \$242,918
Prin. Invest.: D A FORMAN
Tech. Officer: GSFC/J LING
CASE Category: 11 – ASTRONOMY

NAG 5 8169 STATE UNIV OF NEW YORK – STONY BROOK 7161
 SEDIMENTARY GEOCHEMISTRY OF MARTIAN SAMPLES FROM T HE PATH-
 FINDER MISSION
 02/16/1999 – 08/31/2001 FY01: \$0 Total: \$59,500
Prin. Invest.: S M MCLENNAN
Tech. Officer: HQ/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 8377 STATE UNIV OF NEW YORK – STONY BROOK 7162
 SYSTEMATIC STUDY OF EXPLOSIONS IN CORE COLLAPSE SUPERNOVA –
 REOB. DUE TO PI TRANSF. FROM NAG5-3099
 03/08/1999 – 12/31/2000 FY01: \$0 Total: \$28,837
Prin. Invest.: F SWETSY
Tech. Officer: GSFC/D WEST
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 8437 STATE UNIV OF NEW YORK – STONY BROOK 7163
 LOW MASS STAR FORMATION IN ORI OB1A & B (ADP 98)
 04/02/1999 – 03/31/2001 FY01: \$0 Total: \$54,988
Prin. Invest.: F M WALTER
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 8462 STATE UNIV OF NEW YORK – STONY BROOK 7164
 STRUCTURE OF PROTOPLANETARY ENVIRONMENTS
 04/19/1999 – 05/31/2000 FY01: -\$37 Total: \$9,963
Prin. Invest.: M SIMON
Tech. Officer: HQ/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 8980 STATE UNIV OF NEW YORK – STONY BROOK 7165
 WERNER BANDS OF H₂ IN CIRCUMSTELLAR ENVIRONMENTS OF
 SELECTED CLASSICAL T TAURI STARS – FUSE
 01/24/2000 – 01/31/2002 FY01: \$0 Total: \$45,500
Prin. Invest.: F M WALKER
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 – ASTRONOMY

NAG 5 9029 STATE UNIV OF NEW YORK – STONY BROOK 7166
 SORPTION OF SIMPLE ORGANIC MOLECULES ONTO PYRITE: POSSIBLY AN
 IMPORTANT STEP IN THE ORIGIN OF LIFE
 02/08/2000 – 12/31/2001 FY01: \$0 Total: \$45,519
Prin. Invest.: M A SCHOONEN
Tech. Officer: GSFC/M MEYER
CASE Category: 11 – ASTRONOMY

NAG 5 9053 STATE UNIV OF NEW YORK – STONY BROOK 7167
 A SELF-CONSISTENT GLOBAL VELOCITY GRADIENT TENSOR FIELD
 MODEL
 02/10/2000 – 02/14/2002 FY01: \$42,500 Total: \$170,000
Prin. Invest.: W E HOLT
Tech. Officer: GSFC/H V FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 9680 STATE UNIV OF NEW YORK – STONY BROOK 7168
 THE STABILITY OF ORBITAL CONFIGURATIONS AND THE ULTIMATE
 CONFIGURATIONS OF PLANETARY AND SATELLITE
 06/21/2000 – 06/14/2002 FY01: \$0 Total: \$30,000
Prin. Invest.: J J LISSAUR
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 9786 STATE UNIV OF NEW YORK – STONY BROOK 7169
 TRAVEL SUPPORT AND WAVAS PROJECT SUPPORT OF SPARC
 07/11/2000 – 07/31/2001 FY01: \$0 Total: \$34,726
Prin. Invest.: M A GELLER
Tech. Officer: GSFC/P DECOLA
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 9958 STATE UNIV OF NEW YORK – STONY BROOK 7170
 THE EVOLUTION OF STELLAR CORONAE FROM THE PMS THROUGH THE
 ZAMS
 09/13/2000 – 09/14/2002 FY01: \$17,000 Total: \$45,000
Prin. Invest.: F M WALTER
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 – ASTRONOMY

NAG 5 10284 STATE UNIV OF NEW YORK – STONY BROOK 7171
 VERTICAL PROFILES OF LATENT HEATING IN TRMM: VALIDATION &
 ASSIMILATION IN THE GEOS DATA ASSIMILATION
 01/31/2001 – 01/31/2002 FY01: \$50,000 Total: \$50,000
Prin. Invest.: M ZHANG
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 10318 STATE UNIV OF NEW YORK – STONY BROOK 7172
 THE EARLY EVOLUTION OF THE CIRCUMSTELLAR ENVIRONMENT OF
 SOLAR-LIKE STARS FUSE 2000
 01/25/2001 – 01/31/2002 FY01: \$36,000 Total: \$36,000
Prin. Invest.: F M WALTER
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 – ASTRONOMY

NAG 5 10506 STATE UNIV OF NEW YORK – STONY BROOK 7173
 SURFICIAL PROCESSES ON MARS: AN EXPERIMENTAL APPROACH
 03/05/2001 – 02/28/2002 FY01: \$60,000 Total: \$60,000
Prin. Invest.: S MCLENNAN
Tech. Officer: GSFC/J BOYCE
CASE Category: 12 – CHEMISTRY

NAG 5 10583 STATE UNIV OF NEW YORK – STONY BROOK 7174
 SEDIMENTARY GEOCHEMISTRY ON MARS
 03/19/2001 – 02/28/2002 FY01: \$28,000 Total: \$28,000
Prin. Invest.: S MCLENNAN
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 10772 STATE UNIV OF NEW YORK – STONY BROOK 7175
 EARLY BATSE GRB AFTERGLOWS (ADP 2000)
 04/26/2001 – 04/30/2002 FY01: \$10,000 Total: \$10,000
Prin. Invest.: R A WIJERS
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 10995 STATE UNIV OF NEW YORK – STONY BROOK 7176
 COSMIC RAYS IN INTERPLANETARY SPACE: SCATTERING THEORY IN
 THREE DIMENSIONAL TURBULENCE
 05/31/2001 – 05/31/2002 FY01: \$117,926 Total: \$117,926
Prin. Invest.: M A FORMAN
Tech. Officer: GSFC/W WAGNER
CASE Category: 13 – PHYSICS

NAG 5 11033 STATE UNIV OF NEW YORK – STONY BROOK 7177
 INTRASEASONAL VARIABILITY IN THE INDIAN OCEAN
 06/08/2001 – 06/30/2002 FY01: \$59,976 Total: \$59,976
Prin. Invest.: D WALISER
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 33 – OCEANOGRAPHY

NAG 5 11240 STATE UNIV OF NEW YORK - STONY BROOK 7178
 TROPICAL UPWELLING AND STRATOSPHERIC WATER VAPOR VARIABILITY
 08/15/2001 - 08/31/2004 FY01: \$73,956 Total: \$73,956
Prin. Invest.: M GELLER
Tech. Officer: GSFC/P DECOLA
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1698 STATE UNIV OF NEW YORK - STONY BROOK 7179
 MICROGRAVITY PROCESSING OF POLYMER THIN FILMS
 06/02/2000 - 11/30/2003 FY01: \$95,000 Total: \$135,000
Prin. Invest.: M RAFAILOVICH
Tech. Officer: MSFC/P DOTY
CASE Category: 12 - CHEMISTRY

NAG 8 1700 STATE UNIV OF NEW YORK - STONY BROOK 7180
 DEFECTS NUMERICALLY DECREASED (DENUDE)
 08/07/2000 - 11/30/2003 FY01: \$47,500 Total: \$92,500
Prin. Invest.: D LARSON
Tech. Officer: MSFC/P M DOTY
CASE Category: 13 - PHYSICS

NAS 1 96006 STATE UNIV OF NEW YORK - STONY BROOK 7181
 UPPER ATMOSPHER AND STRATOSPHERIC WATER VAPOR RESEARCH
 USING SAGE II
 06/12/1996 - 06/11/2000 FY01: \$0 Total: \$253,806
Prin. Invest.: N AVAILABLE
Tech. Officer: LARC/N AVAILABLE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAS 1 98142 STATE UNIV OF NEW YORK - STONY BROOK 7182
 CERES SCIENCE INVESTIGATIONS
 10/29/1998 - 10/31/2002 FY01: \$186,379 Total: \$494,914
Prin. Invest.: R D CESS
Tech. Officer: LARC/B A WIELICKI
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 5 126 STATE UNIV OF NEW YORK - STONY BROOK 7183
 INTERDISCIPLINARY GLOBAL CHANGE RESEARCH
 10/05/1995 - 02/15/2000 FY01: -\$2 Total: \$324,249
Prin. Invest.: GELLER
Tech. Officer: GSFC/B CARLSON
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 5 342 STATE UNIV OF NEW YORK - STONY BROOK 7184
 INTERDISCIPLINARY GLOBAL CHANGE RESEACH
 06/23/1998 - 03/14/2002 FY01: \$0 Total: \$136,741
Prin. Invest.: M GELLER
Tech. Officer: GSFC/B CARLSON
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 8 93 STATE UNIV OF NEW YORK - STONY BROOK 7185
 COMBINED SYNCHROTRON WHITE X-RAY TOPOGRAPHY & HIGH RESOLU-
 TION TRIPLE AXIS X-RAY DIFFRACTION CHARACTE
 04/22/1996 - 03/31/2001 FY01: \$0 Total: \$418,563
Prin. Invest.: M DUDLEY, R J MATYI
Tech. Officer: MSFC/C TALLEY, MSFC/F R SZOFRAN
CASE Category: 13 - PHYSICS

NCC 8 100 STATE UNIV OF NEW YORK - STONY BROOK 7186
 RESEARCH ENTITLED "ORBITAL PROCESSING OF EUTECTICS
 06/13/1996 - 10/31/2000 FY01: \$0 Total: \$656,249
Prin. Invest.: D LARSON
Tech. Officer: MSFC/T TURNER
CASE Category: 49 - ENGINEERING, OTHER

NCC 8 208 STATE UNIV OF NEW YORK - STONY BROOK 7187
 GROWTH DEFECT CHARACTERIZATION USING WHITE BEAM SYNCHRO-
 TRON X-RAY TOPOGRAPHY
 11/06/2000 - 11/05/2001 FY01: \$40,000 Total: \$40,000
Prin. Invest.: M DUDLEY
Tech. Officer: MSFC/C HUA SU
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NGT 5 30124 STATE UNIV OF NEW YORK - STONY BROOK 7188
 ENVIRONMENTAL CONTROLS OVER 2-METHYL-3-BUTEN-2-01
 09/30/1997 - 08/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: M LERDAU/GRAY
Tech. Officer: GSFC/M Y WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50322 STATE UNIV OF NEW YORK - STONY BROOK 7189
 EVOLUTION OF THE THREE-DIMENSIONAL MOISTURE STRUCT URE
 ASSOCIATED WITH THE LIFE CYCLE OF THE MADDEN
 08/17/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: D WALISER
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9383 STATE UNIV OF NEW YORK COL - PLATTSBURGH 7190
 TRACE ELEMENT ANALYSIS OF COSMIC DUST
 04/04/2000 - 06/30/2002 FY01: \$47,700 Total: \$91,700
Prin. Invest.: G J FLYNN
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 9 1109 STATE UNIV OF NEW YORK COL - PLATTSBURGH 7191
 JSC ASTROBIOLOGY INST
 05/11/1999 - 05/13/2002 FY01: \$25,000 Total: \$75,000
Prin. Invest.: G J FLYNN
Tech. Officer: JSC/E K GIBSON
CASE Category: 13 - PHYSICS

NAG 5 4157 STATE UNIV OF NEW YORK COLLEGE - PURCHASE 7192
 EVOLUTION OF VALLEY NETWORKS
 04/16/1997 - 03/30/2001 FY01: -\$23,313 Total: \$59,015
Prin. Invest.: D A GRANT,III
Tech. Officer: GSFC/T MORGAN
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 4691 STATE UNIV OF NEW YORK COLLEGE - PURCHASE 7193
 CARBON AND NITROGEN ABUNDANCES IN INTERPLANETARY TO PRE-
 BIOTIC ORGANIC MATTER ON EARTH
 06/26/1997 - 10/31/2001 FY01: \$0 Total: \$73,550
Prin. Invest.: D J FLYNN
Tech. Officer: GSFC/M A MEYER
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 5 8499 STATE UNIV OF NEW YORK COLLEGE - PURCHASE 7194
 DETERMINATION OF GEOS ANALYSIS ERRORS NEAR STRONG JET
 STREAMS USING HIGHRESOLUTION MODELS & AIRCRAF
 06/14/1999 - 06/30/2000 FY01: \$0 Total: \$50,000
Prin. Invest.: J TENENBAUM, NONE
Tech. Officer: GSFC/H M HELFAND
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9370 STATE UNIV OF NEW YORK COLLEGE - PURCHASE 7195
 VALIDATION AND IMPROVEMENT OF DAO ANALYSES USING FLIGHT DATA
 RECORDER OBSERVATIONS
 04/12/2000 - 03/31/2002 FY01: \$70,000 Total: \$138,000
Prin. Invest.: J TENENBAUM
Tech. Officer: GSFC/M HELFAND
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 10221 STATE UNIV OF NEW YORK COLLEGE - PURCHASE 7196
 EXPERIMENTAL STUDY OF THE IMPACT DISRUPTION OF MET EORITIC
 SAMPLES: PARENT BODY FRAGMENTATION & THE
 01/11/2001 - 01/14/2002 FY01: \$30,000 Total: \$30,000
Prin. Invest.: G FLYNN
Tech. Officer: GSFC/D SENSKE
CASE Category: 99 - MULTIINTERDISCIPL, OTHER

NAG 3 2464 STATE UNIV OF NEW YORK COLLEGE, BUFFALO 7197
 DYNAMICS OF AEROSOL PARTICLES IN STATIONARY ISOTRO PIC TURBU-
 LENCE
 06/16/2000 - 11/30/2003 FY01: \$57,000 Total: \$77,000
Prin. Invest.: H MENG
Tech. Officer: GRC/F P CHIARAMONTE 111
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 4544 STATE UNIV OF NEW YORK COLLEGE, BUFFALO 7198
 PLANETARY GEOLOGY AND GEOPHYSICS UNDERGRADUATE RES
 05/13/1997 - 03/31/2001 FY01: \$0 Total: \$204,086
Prin. Invest.: GREGG
Tech. Officer: GSFC/J G GRANT
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 7579 STATE UNIV OF NEW YORK COLLEGE, BUFFALO 7199
 FUNDING FOR 'DEBRIS FLOW HAZARD ASSESSMENT, PICO D E ORIZABA,
 MEXICO'(SENH98-0089)
 08/04/1998 - 07/31/2002 FY01: \$50,000 Total: \$300,000
Prin. Invest.: M F SHERIDAN
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 7581 STATE UNIV OF NEW YORK COLLEGE, BUFFALO 7200
 FUNDING FOR 'TEPHROSTRATIGRAPHIC AND SATELLITE IMA GERY ANAL-
 YSIS OF THE KAMCHATKAN SHORELINE...' (SE
 08/04/1998 - 01/31/2002 FY01: \$0 Total: \$100,000
Prin. Invest.: M BURSİK
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICALSCIENCE

NAG 5 10648 STATE UNIV OF NEW YORK COLLEGE, BUFFALO 7201
 ANALYSIS OF VOCANOTECTONICS DEFORMATION & VOLCANIC HAZARDS
 USING TOPSAR & SRTM, MONO BASIN CALIFORNI
 04/02/2001 - 04/14/2002 FY01: \$35,000 Total: \$35,000
Prin. Invest.: M I BURSİK
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 11331 STATE UNIV OF NEW YORK COLLEGE, BUFFALO 7202
 ATTITUDE DETERMINATION SCHEMES FOR THE CEGANS SENSORS
 09/27/2001 - 11/30/2001 FY01: \$5,900 Total: \$5,900
Prin. Invest.: J CRASSIDIS
Tech. Officer: GSFC/D A QUINN
CASE Category: 41 - AERONAUTICAL ENGR

NGT 8 52861 STATE UNIV OF NEW YORK COLLEGE, BUFFALO 7203
 ORIGIN OF CELLULAR PROCESSES ON EARTH
 07/27/1998 - 06/30/2000 FY01: \$0 Total: \$20,699
Prin. Invest.: G R WILSKY
Tech. Officer: MSFC/J F DOWDY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 3 1853 SYRACUSE UNIV 7204
 BEHAVIOR OF RAPIDLY SHEARED BUBBLY SUSPENSIONS
 05/01/1996 - 04/30/2001 FY01: \$0 Total: \$793,431
Prin. Invest.: A S SANGANI, D L KOCH
Tech. Officer: GRC/H K NAHRA, GRC/B MOTIL
CASE Category: 43 - CHEMICAL ENGR

NAG 3 2089 SYRACUSE UNIV 7205
 THREE-DIMENSIONAL VISCOUS INVERSE METHOD WITH ENDW ALL
 EFFECTS
 03/17/1998 - 12/31/2001 FY01: \$0 Total: \$211,521
Prin. Invest.: T DANG
Tech. Officer: GRC/J R WOOD
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2309 SYRACUSE UNIV 7206
 WORKSHOP ON BOUNDARY LAYER TRANSITION AND UNSTEADY
 ASPECTS OF TURBOMACHINERY FLOWS
 12/10/1999 - 12/31/2000 FY01: \$0 Total: \$6,000
Prin. Invest.: D E LAGRAFF
Tech. Officer: GRC/D ASHPIS
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2419 SYRACUSE UNIV 7207
 MEASUREMENT OF TURBULENT PRESSURE AND TEMPERATURE FLUC-
 TUATIONS IN A GAS TURBINE COMBUSTOR
 05/11/2000 - 09/30/2002 FY01: \$88,633 Total: \$158,710
Prin. Invest.: D LAGRAFF
Tech. Officer: GRC/D A POVINELLI
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2427 SYRACUSE UNIV 7208
 RAPIDLY SHEARED BUBBLY SUSPENSIONS RAPIDLY SHEARED BUBBLY
 SUSPENSIONS
 05/24/2000 - 04/30/2005 FY01: \$66,500 Total: \$136,500
Prin. Invest.: D SANGANI
Tech. Officer: GRC/H K NAHRA
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 6822 **SYRACUSE UNIV** **7209**
 STUDIES OF REACTIONS ON INTERSTELLAR GRAIN ANALOGUES IN A
 UV-RICH ENVIRONMENT
 01/12/1998 - 12/31/2001 FY01: \$0 Total: \$229,476
Prin. Invest.: G VIDALI
Tech. Officer: GSFC/H HASAN
CASE Category: 11 - ASTRONOMY

NAG 5 9093 **SYRACUSE UNIV** **7210**
 ENERGETICS OF MOLECULAR HYDROGEN FORMATION
 02/17/2000 - 01/31/2002 FY01: \$70,000 Total: \$135,940
Prin. Invest.: G VIDALI
Tech. Officer: GSFC/P CRANE
CASE Category: 11 - ASTRONOMY

NAG 5 11227 **SYRACUSE UNIV** **7211**
 APPLY SENSE, ANALYZE, INTERPRET AND DECIDE (SAID) TO THE
 DEVELOPMENT OF INTELLIGENT ALGORITHMS & SYS
 08/13/2001 - 08/14/2003 FY01: \$997,800 Total: \$997,800
Prin. Invest.: P K VARSHNEY
Tech. Officer: GSFC/E J MASUOKA
CASE Category: 22 - COMPUTER SCIENCE

NAS 3 00172 **SYRACUSE UNIV** **7212**
 ENHANCED 3D VISCOUS INVERSE DESIGN CFD CODE
 11/03/2000 - 09/30/2001 FY01: \$141,504 Total: \$141,504
Prin. Invest.: N AVAILABLE
Tech. Officer: GRC/C COLES-HAMILTON
CASE Category: 22 - COMPUTER SCIENCE

NCC 1 01004 **SYRACUSE UNIV** **7213**
 AN ADVANCED INTERACTIVE DISCOVERY ENVIRONMENT FOR ENGI-
 NEERING EDUCATION
 02/07/2001 - 12/31/2003 FY01: \$998,000 Total: \$998,000
Prin. Invest.: B D DAVIDSON, E D LIDDY
Tech. Officer: LARC/R D BRAUN, LARC/K A CANNON
CASE Category: 49 - ENGINEERING, OTHER

NGT 1 52169 **SYRACUSE UNIV** **7214**
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
 05/07/1997 - 12/31/1999 FY01: -\$5,148 Total: \$44,352
Prin. Invest.: M A KEGERISE, E F SPINA
Tech. Officer: LARC/C B MCGINLEY
CASE Category: 41 - AERONAUTICAL ENGR

NAG 2 1142 **UNIV OF ROCHESTER** **7215**
 PROPOSAL FOR INFRARED SUBMILLIMETER, AND RADIO ASTRONOMY
 07/22/1997 - 05/31/2002 FY01: \$0 Total: \$1,479,766
Prin. Invest.: W J FORREST, J L PIPHER
Tech. Officer: ARC/C R MCCREIGHT, ARC/R E MCMURRAY
CASE Category: 13 - PHYSICS

NAG 2 1280 **UNIV OF ROCHESTER** **7216**
 DEVELOPMENT OF DETECTOR ARRAYS FOR LOW-BACKGROUND SPACE
 ASTRONOMY
 01/12/1999 - 02/28/2002 FY01: \$65,000 Total: \$195,000
Prin. Invest.: W J FORREST
Tech. Officer: ARC/C R MCCREIGHT
CASE Category: 45 - ELECTRICAL ENGR

NAG 2 1452 **UNIV OF ROCHESTER** **7217**
 DEVELOPMENT OF OPTIMIZED 1K X 1K MULTIPLEXER FOR N GST
 02/01/2001 - 12/31/2001 FY01: \$450,000 Total: \$450,000
Prin. Invest.: W J FORREST
Tech. Officer: ARC/C R MCCREIGHT, ARC/R E MCMURRAY, JR
CASE Category: 11 - ASTRONOMY

NAG 3 2348 **UNIV OF ROCHESTER** **7218**
 LIQUID CRYSTAL POINT-DIFFRACTION INTERFEROMETER (L CPDI)
 MATERIALS AND DEVICES FOR MICROGRAVITY FLUI
 03/08/2000 - 11/30/2003 FY01: \$93,276 Total: \$131,776
Prin. Invest.: K MARSHALL
Tech. Officer: GRC/D GRIFFIN
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 4976 **UNIV OF ROCHESTER** **7219**
 DEVELOPMENT OF GE:GA BLOCKED-IMPURITY-BAND DETECTOR
 ASTRONOMY
 07/10/1997 - 12/31/2000 FY01: \$0 Total: \$305,000
Prin. Invest.: D M WATSON
Tech. Officer: GSFC/G STRINGFELLOW
CASE Category: 11 - ASTRONOMY

NAG 5 6119 **UNIV OF ROCHESTER** **7220**
 SUNSPOT DYNAMICS
 08/08/1997 - 08/31/2001 FY01: \$0 Total: \$173,100
Prin. Invest.: D H THOMAS
Tech. Officer: GSFC/W J WAGNER
CASE Category: 11 - ASTRONOMY

NAG 5 6267 **UNIV OF ROCHESTER** **7221**
 DEVELOPMENT OF LOW DARK CURRENT, HIGH QUANTUM EFFICIENCY
 PASSIVELY COOLED SPACE EXPERIMENTS
 08/21/1997 - 06/30/2002 FY01: \$0 Total: \$605,562
Prin. Invest.: J L PIPHER
Tech. Officer: GSFC/G STRINGFELLOW
CASE Category: 11 - ASTRONOMY

NAG 5 8428 **UNIV OF ROCHESTER** **7222**
 THE PHYSICS OF RADIATIVE MHD JETS: A NUMERICAL STUDY OF MAGNE-
 TIZED YSO OUTFLOWS
 06/02/1999 - 06/14/2002 FY01: \$174,780 Total: \$278,780
Prin. Invest.: A FRANK
Tech. Officer: GSFC/R K OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 8642 **UNIV OF ROCHESTER** **7223**
 DEVELOPMENT OF 2 - 10 MICRON HgCdTe ARRAYS FOR EXPLORER
 MISSIONS AND SOFIA.
 07/08/1999 - 06/30/2002 FY01: \$0 Total: \$492,402
Prin. Invest.: J L PIPHER
Tech. Officer: GSFC/G MUCKLOW
CASE Category: 11 - ASTRONOMY

NAG 5 9351 **UNIV OF ROCHESTER** **7224**
 DEVELOPMENT OF EXTRINSIC GERMANIUM BLOCKED-IMPURITY-BAND
 DETECTOR ARRAYS FOR FAR-INFRARED ASTRONOMY
 03/30/2000 - 03/31/2001 FY01: \$0 Total: \$298,000
Prin. Invest.: D M WATSON
Tech. Officer: GSFC/G STRINGFELLOW
CASE Category: 13 - PHYSICS

NAG 5 10429 **UNIV OF ROCHESTER** **7225**
 NGST DETECTOR ARRAY TESTING AT THE UNIV OF R OCHESTER
 02/22/2001 – 02/28/2002 FY01: \$183,000 Total: \$183,000
Prin. Invest.: D J FORREST
Tech. Officer: GSFC/M GREENHOUSE
CASE Category: 11 – ASTRONOMY

NAG 8 1382 **UNIV OF ROCHESTER** **7226**
 EN VIVO HEMOPOIESIS IN 3-DIMENSIONAL HUMAN BONE MARROW
 CULTURE UNDER SIMULATED MICROGRAVITY
 07/09/1997 – 07/08/2001 FY01: \$0 Total: \$519,000
Prin. Invest.: D WU
Tech. Officer: MSFC/C TALLEY
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 9 1360 **UNIV OF ROCHESTER** **7227**
 CIRCADIAN RYTHMS AN DCONTROL OF HEMATOPOIESIS
 07/27/2001 – 07/16/2005 FY01: \$79,000 Total: \$79,000
Prin. Invest.: J H WU
Tech. Officer: JSC/D RISEN
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NCC 3 660 **UNIV OF ROCHESTER** **7228**
 WAVEGUIDE COUPLING APPLIED TO AN INTEGRATED THIN F ILM NOX
 SENSOR
 01/06/1999 – 09/24/2000 FY01: \$0 Total: \$34,980
Prin. Invest.: T G BROWN
Tech. Officer: GRC/M L TUMA
CASE Category: 13 – PHYSICS

NGT 5 104 **UNIV OF ROCHESTER** **7229**
 THE NUCLEATION OF REFRACTORY VAPORS & ITS IMPACT ON
 ASTROPHYSICAL PROCESSES/STUDENT: DANIEL MARTINE
 05/25/2000 – 08/31/2001 FY01: \$0 Total: \$22,000
Prin. Invest.: R H HEIST
Tech. Officer: GSFC/G A SOFFEN
CASE Category: 43 – CHEMICAL ENGR

NGT 5 50360 **UNIV OF ROCHESTER** **7230**
 EXPERIMENTAL EFFOR FOR THE OBSERVATION OF MACROSCO PIC
 QUANTUM COHERENCE IN AN RF – SQUID
 05/25/2001 – 05/31/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: M BOCKO
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NORTH CAROLINA

NAG 1 01014 **DUKE UNIV** **7231**
 IMPACT OF MODEL UNCERTAINTY ON SPATIAL COMPENSATN IN STRUC-
 TURAL ACOUSTIC CONTROL
 03/27/2001 – 12/31/2003 FY01: \$50,535 Total: \$50,535
Prin. Invest.: R L CLARK
Tech. Officer: LARC/R H CABELL
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 01062 **DUKE UNIV** **7232**
 THE MECHANICS OF FLAPPING FLIGHT
 04/11/2001 – 01/31/2004 FY01: \$35,723 Total: \$35,723
Prin. Invest.: K C HALL
Tech. Officer: LARC/D E COX
CASE Category: 41 – AERONAUTICAL ENGR

NAG 2 1002 **DUKE UNIV** **7233**
 EXPRESSION OF CONTRACTILE PROTEIN ISOFORMS IN MICR OGRAVITY
 08/25/1995 – 06/30/2000 FY01: \$0 Total: \$165,646
Prin. Invest.: P ANDERSON
Tech. Officer: ARC/C M WINGET, ARC/G C JAHNS
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 2 1377 **DUKE UNIV** **7234**
 EVOLUTION OF GENE REGULATORY SYSTEM: STRUCTURAL & FUNC-
 TIONAL ANALYSES OF EVOLUTIONARY DIVERSIFICAT
 08/19/1999 – 09/30/2002 FY01: \$121,565 Total: \$316,458
Prin. Invest.: G A WRAT
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 3 1838 **DUKE UNIV** **7235**
 DENSITY EQUILIBATION IN FLUIDS NEAR THE LIQUIRD-VA POR CRITIAL
 POINT
 04/22/1996 – 04/30/2002 FY01: \$0 Total: \$350,000
Prin. Invest.: H MEYER
Tech. Officer: GRC/B S SINGH
CASE Category: 13 – PHYSICS

NAG 3 1917 **DUKE UNIV** **7236**
 DYNAMICS OF GRANULAR MATERIAL
 07/15/1996 – 07/15/2000 FY01: -\$1 Total: \$471,999
Prin. Invest.: R BEHRINGER
Tech. Officer: GRC/E NELSON
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 2372 **DUKE UNIV** **7237**
 GRAVITY AND GRANULAR MATERIALS GRAVITY AND GRANULAR
 MATERIALS
 04/07/2000 – 11/30/2003 FY01: \$103,550 Total: \$168,650
Prin. Invest.: R P BEHRINGER
Tech. Officer: GRC/R A WILKINSON
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 2627 **DUKE UNIV** **7238**
 MODELING OF UNSTEADY THREE-DIMENSIONAL FLOWS IN MU LTISTAGE
 MACHINES
 06/07/2001 – 04/02/2005 FY01: \$18,243 Total: \$18,243
Prin. Invest.: K C HALL
Tech. Officer: GRC/A P KURKOV
CASE Category: 46 – MECHANICAL ENGR

NAG 5 3665 **DUKE UNIV** **7239**
 A STUDY OF CARBON MONOXIDE USING TRACE CONSTITUENT DATA
 ASSIMILATION: A NEW APPROACH IN GLOBAL
 01/15/1997 – 12/31/2000 FY01: \$0 Total: \$646,175
Prin. Invest.: P KABIBHATLA
Tech. Officer: GSFC/R ROOD
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 6988 **DUKE UNIV** **7240**
 REPRESENTING KEY PHYTOPLANKTON GROUPS IN OCEAN CARBON
 CYCLE MODELS
 02/20/1998 - 02/14/2000 FY01: -\$7,564 Total: \$169,330
Prin. Invest.: R T BARBER
Tech. Officer: GSFC/J CAMPBELL
CASE Category: 33 - OCEANOGRAPHY

NAG 5 8533 **DUKE UNIV** **7241**
 TO WHAT EXTENT CAN INCREASED EVAPOTRANSPIRATION DUE TO
 GROUNDWATER BASED IRRIGATION IN THE GREAT
 07/02/1999 - 07/14/2002 FY01: \$103,346 Total: \$233,754
Prin. Invest.: S ROJSTACZER
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9348 **DUKE UNIV** **7242**
 PHYSICAL VARIABILITY, ECOSYSTEM RESPONSE & BIOGEOCHEMICAL
 CONSEQUENCES IN THE PACIFIC OCEAN: UNDERS
 03/28/2000 - 04/30/2002 FY01: \$184,477 Total: \$303,262
Prin. Invest.: R T BARBER
Tech. Officer: GSFC/J MARRA
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9605 **DUKE UNIV** **7243**
 CONTINUED DEVELOPMENT & APPLICATION OF DATA ASSIMILATION
 TECHNIQUES FOR TROPOSPHERIC CHEMISTRY STUDI
 05/31/2000 - 05/31/2002 FY01: \$210,144 Total: \$338,430
Prin. Invest.: P KASIBHATLA
Tech. Officer: GSFC/P DECOLA
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10270 **DUKE UNIV** **7244**
 MAGNETOSPHERIC, IONOSPHERIC, & ATMOSPHERIC EFFECT OF
 INTENSE LIGHTNING-GENERATED ELECTROMAGNETIC
 01/08/2001 - 01/14/2002 FY01: \$73,976 Total: \$73,976
Prin. Invest.: S CUMMER
Tech. Officer: GSFC/M MELLOTT
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1581 **DUKE UNIV** **7245**
 R/S DIFFERENTIATION AND MAINTENANCE OF SKELETAL AND CARDIAC
 MUSCLE IN SIMULATED GRAVITY
 03/01/1999 - 11/30/2002 FY01: \$152,000 Total: \$400,000
Prin. Invest.: W E KRAUS
Tech. Officer: MSFC/B GUYNES
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 8 1715 **DUKE UNIV** **7246**
 RESEARCH ENTITLED: DYNAMIC STRUCTURAL MODELING AND AND
 TESTING OF THIN-FILM STRUCTURE.
 03/23/2000 - 06/02/2003 FY01: \$62,028 Total: \$121,102
Prin. Invest.: L N VIRGIN, K N SLADE
Tech. Officer: MSFC/M TINKER, MSFC/L CURTIS
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 8 1736 **DUKE UNIV** **7247**
 AN INVESTIGATION OF THE GEOMETRICAL SCALING PROPERTIES OF
 INFLATABLE STRUCTURES
 09/06/2000 - 09/06/2001 FY01: \$0 Total: \$25,000
Prin. Invest.: L N VIRGIN, K N SLADE
Tech. Officer: MSFC/M L TINKER
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 8 1781 **DUKE UNIV** **7248**
 QUANTUM COHERENCE IN ULTRACOLD FERMIONIC VAPORS
 05/01/2001 - 04/30/2005 FY01: \$70,000 Total: \$70,000
Prin. Invest.: J E THOMAS
Tech. Officer: MSFC/D HUBBARD
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NCC 5 233 **DUKE UNIV** **7249**
 A GROUND-TRUTHING PROGRAM IN SUPPORT OF THE VEGETATION
 09/03/1997 - 08/31/2000 FY01: \$0 Total: \$39,437
Prin. Invest.: D L URBAN
Tech. Officer: GSFC/R KNOX
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 9 83 **DUKE UNIV** **7250**
 PREBREATHING REDUCTION PROTOCOL
 03/11/1999 - 03/10/2003 FY01: \$150,000 Total: \$425,000
Prin. Invest.: R VANN
Tech. Officer: JSC/M GERNHARDT
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 69 **DUKE UNIV** **7251**
 A REGIONAL ASSESSMENT OF THE RATE AND DIRECTION OF CHANGE IN
 SOIL ORGANIC CARBON POOLS DUE TO LAND
 05/28/1998 - 09/14/2001 FY01: \$0 Total: \$62,100
Prin. Invest.: B SCHLESINGER
Tech. Officer: GSFC/M S BURRELL
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30105 **DUKE UNIV** **7252**
 EFFECTS OF PLANT-SOIL INTERACTIONS ON CARBON STORAGE IN A
 CHESAPEAKE BAY MARSH: DOES ELEVATED CO2
 10/24/1997 - 08/31/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: D REYNOLDS
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30117 **DUKE UNIV** **7253**
 THE EFFECTS OF WILDFIRE ON CARBON CYCLING IN SOILS OF INTERIOR
 ALASKA ESSF RECIPIENT: KATHERINE O'NE
 10/01/1997 - 08/31/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: D RICHTER
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30355 **DUKE UNIV** **7254**
 EFFECTS OF PRECIPITATION VARIABILITY & DESERTIFICATION ON WATER
 DYNAMICS IN ARID LANDS: A PATCH & LA
 08/24/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: J REYNOLDS
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30379 **DUKE UNIV** **7255**
 THE INFLUENCE OF IRRIGATION ON WARM SEASON PRECIPITATION IN THE GREWPLAINS/NATHAN J. MOORE
 08/13/2001 - 08/31/2004 FY01: \$21,412 Total: \$21,412
Prin. Invest.: S ROJSTACZER
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30397 **DUKE UNIV** **7256**
 MECHANISMS CONTROLLING THE RESPONSE OF DEITRIFICATION TO ANTHROPOGENIC NITROGEN DEPOSITION (STUDENT
 08/14/2001 - 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: W H SCHLESSINGER
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50224 **DUKE UNIV** **7257**
 VARYING EOLIAN DUST INPUTS AND SPATIOTEMPORAL PATTERNS OF CHANGE ON CARIBBEAN CORAL REEFS
 09/29/1998 - 08/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: R T BARBER, M HAYES
Tech. Officer: HQ/A NURRIDIN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 50266 **DUKE UNIV** **7258**
 CYTOSKELETAL CONTRIBUTIONS TO CHANGES IN ELASTICITY OF MAMMALIAN MYOCYTES AFTER CYCLIC MECHANICAL
 07/07/1999 - 06/30/2001 FY01: \$22,000 Total: \$44,000
Prin. Invest.: G TRUSKEY
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 8 52842 **DUKE UNIV** **7259**
 GRADUATE STUDENT RESEARCH PROGRAM
 07/30/1997 - 08/31/2000 FY01: -\$1,251 Total: \$64,749
Prin. Invest.: L N VIRGIN
Tech. Officer: MSFC/JDOWDY
CASE Category: 46 - MECHANICAL ENGR

NAG 2 6045 **EAST CAROLINA UNIV** **7260**
 SC2000/SC2001 COMPUTATIONAL SCIENCE LEADERSHIP PROGRAM FOR HIGH SCHOOL TEACHERS
 08/23/2000 - 07/31/2002 FY01: \$54,000 Total: \$108,000
Prin. Invest.: J C HUSKAMP
Tech. Officer: ARC/J P ZIEBARTH, ARC/M J LEON
CASE Category: 22 - COMPUTER SCIENCE

NCC 1 01027 **EAST CAROLINA UNIV** **7261**
 THE LIVES, CAREERS, AND ENGINEERING ACCOMPLISHMENTS OF WILBUR AND ORVILLE WRIGHT
 03/13/2001 - 12/31/2002 FY01: \$91,874 Total: \$91,874
Prin. Invest.: L TISE
Tech. Officer: LARC/S E MASSENBERG
CASE Category: 41 - AERONAUTICAL ENGR

NCC 2 1165 **EAST CAROLINA UNIV** **7262**
 HYPERGRAVITY EFFECTS ON THE MATERNAL-FETAL SYSTEM
 03/27/2000 - 03/14/2002 FY01: \$29,886 Total: \$58,902
Prin. Invest.: H W BURDEN
Tech. Officer: ARC/A E RONCA/E M HOLTON
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 1 2229 **ELIZABETH CITY STATE UNIV** **7263**
 A PILOT COMPUTER AIDED DESIGN AND MANUFACTURING CURRICULUM THAT PROMOTES ENGINEERING
 09/15/1999 - 07/31/2001 FY01: \$75,001 Total: \$200,001
Prin. Invest.: E LAWRENCE
Tech. Officer: LARC/G D REESE
CASE Category: 22 - COMPUTER SCIENCE

NAG 3 2150 **ELIZABETH CITY STATE UNIV** **7264**
 CONTROLLING CHAOS IN JOSEPHSON JUNCTION CONTROLLING CHAOS IN JOSEPHSON JUNCTION
 04/07/1998 - 05/31/2002 FY01: \$0 Total: \$244,272
Prin. Invest.: D SENGUPTA, S K KANA, K D EDOH
Tech. Officer: GRC/M ANDRO, GRC/E J PETRIK
CASE Category: 21 - MATHEMATICS

NAG 3 2556 **ELIZABETH CITY STATE UNIV** **7265**
 AIR TRAFFIC ANALYSIS AIR TRAFFIC ANALYSIS
 03/01/2001 - 02/28/2002 FY01: \$35,000 Total: \$35,000
Prin. Invest.: D PENDHARKAR
Tech. Officer: GRC/D C ROBINSON
CASE Category: 29 - MATH/COMPUTER SCI, OTHER

NAG 5 6814 **ELIZABETH CITY STATE UNIV** **7266**
 DR. C.D. TURNAGE PRE-COLLEGE AWARDS FOR EXCELLENCE IN MATHEMATICS, SCIENCE, ENGINEERING AND TECHNOLOGY
 01/05/1998 - 11/30/1999 FY01: \$0 Total: \$200,000
Prin. Invest.: S SACHDEV
Tech. Officer: GSFC/STOUTSENBERGER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9371 **ELIZABETH CITY STATE UNIV** **7267**
 MATHEMATICS OF THE GREAT DISMAL SWAMP
 04/06/2000 - 03/31/2002 FY01: \$101,776 Total: \$203,776
Prin. Invest.: L HAYDEN
Tech. Officer: GSFC/B MEESON
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9372 **ELIZABETH CITY STATE UNIV** **7268**
 YOU BE THE SCIENTIST WITH SATELLITE IMAGERY IN EX/ EC COMMUNITIES
 04/06/2000 - 03/31/2002 FY01: \$94,791 Total: \$189,791
Prin. Invest.: L B HAYDEN
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 5 121 **ELIZABETH CITY STATE UNIV** **7269**
 REGIONAL NETWORK RESOURCES AND TRAINING SITE AT ECSU
 08/15/1995 - 08/14/2001 FY01: \$15,000 Total: \$2,639,000
Prin. Invest.: L HAYDEN
Tech. Officer: GSFC/J HARRINGTON
CASE Category: 22 - COMPUTER SCIENCE

NCC 5 533 **ELIZABETH CITY STATE UNIV** **7270**
 ECSU - NRTS CONTINUATION/MUSPIN NRTS PROGRAM.
 02/01/2001 - 01/31/2002 FY01: \$357,694 Total: \$357,694
Prin. Invest.: L HAYDEN
Tech. Officer: GSFC/J HARRINGTON
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 1 2227 **FAYETTEVILLE STATE UNIV** **7271**
 TEACHING INTEGRATED MATHEMATICS AND SCIENCE WITH TECHNOLOGY
 AND NASA RESOURCES: A PARTNERSHIP
 08/23/1999 – 07/31/2001 FY01: \$1 Total: \$200,001
Prin. Invest.: I EDWARDS
Tech. Officer: LARC/S MASSENBERG
CASE Category: 41 – AERONAUTICAL ENGR

NAG 3 2072 **FAYETTEVILLE STATE UNIV** **7272**
 GENERATING ELECTRONIC MATERIALS (GEM) FOR TEACHING /LEARNING
 MATHEMATIC AND SCIENCE TEACHER TRAINING
 07/28/1997 – 04/15/2000 FY01: -\$2,603 Total: \$79,394
Prin. Invest.: L EDWARDS
Tech. Officer: GRC/R F LAWRENCE
CASE Category: 29 – MATH/COMPUTERSCI, OTHER

NAG 5 9155 **FAYETTEVILLE STATE UNIV** **7273**
 MATHEMATICS/SCIENCE EDUCATION CENTER PRECOLLEGE PROGRAM
 03/03/2000 – 02/28/2002 FY01: \$100,000 Total: \$200,000
Prin. Invest.: L EDWARDS
Tech. Officer: GSFC/M STOUTSENBERGER
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 3 2290 **JOHNSON C. SMITH UNIV** **7274**
 OPTIMUM DESIGN OF PASSIVE MILLIMETER WAVE IMAGING WITH SUPER-
 RAYLEIGH RESOLUTION OF APPLICATION TO
 09/02/1999 – 08/31/2000 FY01: \$0 Total: \$55,000
Prin. Invest.: M F ATTIA
Tech. Officer: GRC/I M BLANKSON
CASE Category: 41 – AERONAUTICAL ENGR

NAG 3 2300 **JOHNSON C. SMITH UNIV** **7275**
 THE DEVELOPMENT OF A PASSIVE MILLIMETER WAVE IMAGING SYSTEM
 WITH SUPER-RESOLUTION
 11/16/1999 – 12/31/2002 FY01: \$97,596 Total: \$195,192
Prin. Invest.: D E MILLER
Tech. Officer: GRC/D M BLANKSON
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 1956 **NORTH CAROLINA A&T STATE UNIV** **7276**
 APPROACHES TO DESIGN AND EVALUATION OF SANDWICH COMPOSITES
 07/10/1997 – 10/31/2000 FY01: \$1 Total: \$177,001
Prin. Invest.: K N SHIVAKUMAR, NONE
Tech. Officer: LARC/D R AMBUR, LARC/C C POE
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 1 2225 **NORTH CAROLINA A&T STATE UNIV** **7277**
 ACCESS TO SPACE THROUGH RESEARCH AND EDUCATION MY 1/2
 08/24/1999 – 12/31/2001 FY01: \$75,000 Total: \$200,000
Prin. Invest.: F FERGUSON
Tech. Officer: LARC/R S CALLOWAY, LARC/B K OUTLAW
CASE Category: 41 – AERONAUTICAL ENGR

NAG 2 1413 **NORTH CAROLINA A&T STATE UNIV** **7278**
 MOTION PLANNING IN A SOCIETY OF INTELLIGENT MOBILE AGENTS
 07/05/2000 – 06/14/2002 FY01: \$0 Total: \$120,416
Prin. Invest.: A C ESTERLINE
Tech. Officer: ARC/M G SHATTO
CASE Category: 22 – COMPUTER SCIENCE

NAG 2 1430 **NORTH CAROLINA A&T STATE UNIV** **7279**
 COMBUSTION SENSORS: GAS TURBINE APPLICATIONS
 08/16/2000 – 12/31/2001 FY01: \$0 Total: \$143,397
Prin. Invest.: M HUMAN
Tech. Officer: ARC/G ZILLIAC
CASE Category: 46 – MECHANICAL ENGR

NAG 2 1469 **NORTH CAROLINA A&T STATE UNIV** **7280**
 EXAMINING THE PILOT & CONTROLLER PERFORMANCE DATA WHEN IN A
 FREE FLIGHT WITH WEATHER PHENOMENON
 04/12/2001 – 03/31/2002 FY01: \$130,000 Total: \$130,000
Prin. Invest.: C NTUEN
Tech. Officer: ARC/S LOZITO, ARC/R ASHFORD
CASE Category: 41 – AERONAUTICAL ENGR

NAG 2 6028 **NORTH CAROLINA A&T STATE UNIV** **7281**
 RONALD E. MCNAIR GRADUATE RESEARCH FELLOWSHIP PROG RAM
 02/22/1999 – 02/14/2002 FY01: \$323,500 Total: \$970,500
Prin. Invest.: R M SALAMI, L SHARPE
Tech. Officer: ARC/B COLLINS, ARC/M L MARLAIRE
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 2165 **NORTH CAROLINA A&T STATE UNIV** **7282**
 DEVELOPMENT OF A STRUCTURAL DAMAGE DIAGNOSTIC AND
 MONITORING SYSTEM FOR ROCKETENGINES PHASE I: DAMA
 06/11/1998 – 10/31/2000 FY01: \$0 Total: \$90,000
Prin. Invest.: Y ELLEN, L SHARPE
Tech. Officer: GRC/D F NOGA, GRC/A L JANKOVSKY
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 3 2584 **NORTH CAROLINA A&T STATE UNIV** **7283**
 ADVANCED CROSS ENTERPRISE TECHNOLOGY
 04/05/2001 – 03/11/2004 FY01: \$539,870 Total: \$539,870
Prin. Invest.: D DOGAN
Tech. Officer: GRC/G FUJIKAWA
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 2650 **NORTH CAROLINA A&T STATE UNIV** **7284**
 CARBON FIBER REINFORCED CERAMIC COMPOSITES FOR PRO PULSION
 APPLICATION
 09/21/2001 – 02/28/2002 FY01: \$5,000 Total: \$5,000
Prin. Invest.: D N SHIVAKUMAR
Tech. Officer: GRC/M R FREEDMAN
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 4 118 **NORTH CAROLINA A&T STATE UNIV** **7285**
 MULTIDISCIPLINARY MODELING & SIMULATION OF AEROSPACE VEHICLE
 SYSTEMS
 03/27/1997 – 03/30/2001 FY01: -\$209 Total: \$99,789
Prin. Invest.: M HUMAN
Tech. Officer: DFRC/K K GUPTA, DFRC/L S VOELKER
CASE Category: 41 – AERONAUTICAL ENGR

NAG 4 131 **NORTH CAROLINA A&T STATE UNIV** **7286**
 ARTIFICIAL POTENTIAL FIELD BASED MOTION PLANNING/ NAVIGATION IN 2
 & 3 DIMENSIONAL DYNAMIC ENVIRON.
 06/06/1997 – 05/31/2001 FY01: \$0 Total: \$354,016
Prin. Invest.: A V HOMAIFAR
Tech. Officer: DFRC/K GUPTA
CASE Category: 41 – AERONAUTICAL ENGR

NAG 4 132 NORTH CAROLINA A&T STATE UNIV 7287
 HYBRID MOTION PLANNING WITH MULTIPLE DESTINATIONS NEW AWARD
 06/10/1997 - 06/30/2000 FY01: -\$3,541 Total: \$269,753
Prin. Invest.: J CLOUSE, NONE
Tech. Officer: DFRC/K GUPTA
CASE Category: 41 - AERONAUTICAL ENGR

NAG 4 152 NORTH CAROLINA A&T STATE UNIV 7288
 INVESTIGATION OF AERO SERVO STRUCTURAL INTERACTIO IN AERO-
 SPACE APPLICATIONS
 03/23/1998 - 03/18/2002 FY01: \$0 Total: \$300,000
Prin. Invest.: S CHANDRA
Tech. Officer: DFRC/J BRADEN, DFRC/K K GUPTA
CASE Category: 41 - AERONAUTICAL ENGR

NAG 4 211 NORTH CAROLINA A&T STATE UNIV 7289
 DEVELOPMENT AND EVALUATION OF FAULT-TOLERANT FLIGH T CONTROL
 SYSTEMS
 06/26/2000 - 06/14/2003 FY01: \$100,000 Total: \$200,000
Prin. Invest.: D D SONG
Tech. Officer: DFRC/K GUPTA
CASE Category: 41 - AERONAUTICAL ENGR

NAG 5 4102 NORTH CAROLINA A&T STATE UNIV 7290
 FORMAL FOUNDATIONS OF AGENTS
 03/31/1997 - 11/30/1999 FY01: \$0 Total: \$295,567
Prin. Invest.: A ESTERLINE
Tech. Officer: GSFC/W TRUSZKOWSKI
CASE Category: 22 - COMPUTER SCIENCE

NAG 5 7158 NORTH CAROLINA A&T STATE UNIV 7291
 SELF-TIMED SYNCHRONOUS DIGITAL SYSTEM DESIGN
 03/11/1998 - 05/14/2002 FY01: \$100,000 Total: \$299,028
Prin. Invest.: A WALKER
Tech. Officer: GSFC/P CORONADO
CASE Category: 45 - ELECTRICAL ENGR

NAG 5 9170 NORTH CAROLINA A&T STATE UNIV 7292
 NATIONAL CONFERENCE OF BLACK PHYSICS STUDENTS
 03/06/2000 - 03/14/2001 FY01: \$0 Total: \$77,708
Prin. Invest.: E WILLIAMS
Tech. Officer: GSFC/J A JACKSON
CASE Category: 13 - PHYSICS

NAG 5 9419 NORTH CAROLINA A&T STATE UNIV 7293
 LOW-POWER RF SOI-CMOS TECHNOLOGY FOR DISTRIBUTED SENSOR
 NETWORKS
 04/11/2000 - 08/30/2001 FY01: \$0 Total: \$100,000
Prin. Invest.: N DOGAN
Tech. Officer: GSFC/J MALONE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1142 NORTH CAROLINA A&T STATE UNIV 7294
 ROCKET ENGINE STUDY
 05/15/1995 - 12/31/2000 FY01: \$0 Total: \$69,729
Prin. Invest.: K JONES
Tech. Officer: MSFC/J RUF
CASE Category: 49 - ENGINEERING, OTHER

NAG 8 1247 NORTH CAROLINA A&T STATE UNIV 7295
 DEVELOPMENT & TESTING OF A VIBROMETRY TECHNIQUE FOR HEALTH
 MONITORING OF COMPOSITE MATERIAL STRUCT
 10/31/1996 - 10/31/1999 FY01: -\$8,247 Total: \$276,260
Prin. Invest.: D J SCHULZ
Tech. Officer: MSFC/C WILKERSON
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1646 NORTH CAROLINA A&T STATE UNIV 7296
 STRUCTURAL HEALTH MONITORING OF AEROSPACE VEHICLES
 09/30/1999 - 09/30/2001 FY01: \$80,000 Total: \$200,000
Prin. Invest.: N
Tech. Officer: MSFC/A BEAM, MSFC/W LOVE
CASE Category: 41 - AERONAUTICAL ENGR

NAG 8 1707 NORTH CAROLINA A&T STATE UNIV 7297
 ALLIANCE FOR LEARNING AND VISION FOR UNDER- REPRESENTED AMER-
 ICANS PROGRAM (ALVA)
 01/31/2000 - 01/20/2001 FY01: \$0 Total: \$47,025
Prin. Invest.: E CHEEK
Tech. Officer: MSFC/W LOVE
CASE Category: 49 - ENGINEERING, OTHER

NAG 9 973 NORTH CAROLINA A&T STATE UNIV 7298
 INTELLIGENT AGENTS-BASED SCHEDULING
 09/25/1997 - 09/30/2000 FY01: -\$15,499 Total: \$117,448
Prin. Invest.: B RAM
Tech. Officer: JSC/J D ERICK SUN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG10 201 NORTH CAROLINA A&T STATE UNIV 7299
 CLEANING OF CONTAMINATED SUBSTRATES
 10/23/1996 - 12/22/2000 FY01: -\$31,054 Total: \$253,029
Prin. Invest.: G WHITE
Tech. Officer: KSC/G ALLEN
CASE Category: 43 - CHEMICAL ENGR

NAS 3 01197 NORTH CAROLINA A&T STATE UNIV 7300
 8CM, AND 30CM CARBON-CARBON GRIDS, USING INNOVATIV E MANUFAC-
 TURING PROCESS
 08/14/2001 - 05/28/2004 FY01: \$40,000 Total: \$40,000
Prin. Invest.: K SHIVAKUMAR
Tech. Officer: GRC/T HAAG
CASE Category: 47 - METAL & MATERIALS ENGR

NAS 3 96055 NORTH CAROLINA A&T STATE UNIV 7301
 NEW MECHANISTIC CONSTITUTIVE MODEL FOR HIGH TEMPER ATURE
 CMCS UNDER MONOTONIC CYCLIC LOADING
 11/05/1996 - 09/30/1999 FY01: \$0 Total: \$120,000
Prin. Invest.: J SANKAR, A D KELKAR
Tech. Officer: GRC/R BHATT, GRC/E HANES
CASE Category: 47 - METAL & MATERIALS ENGR

NCC 1 255 NORTH CAROLINA A&T STATE UNIV 7302
 THE CENTER FOR AEROSPACE RESEARCH: A NASA CENTER OF EXCEL-
 LENCE
 05/13/1997 - 12/31/2001 FY01: \$1,200,000 Total: \$4,900,000
Prin. Invest.: E O DOSE
Tech. Officer: LARC/W WHIGGLOW, JR.
CASE Category: 41 - AERONAUTICAL ENGR

NCC 1 01058 NORTH CAROLINA A&T STATE UNIV 7303
 INTEGRATION OF NASA RESEARCH IN UNDERGRADUATE EDUCATION IN MATHEMATICS, SCIENCE, ENGINEERING & TECHNOLOGY
 08/24/2001 - 06/30/2003 FY01: \$701,721 Total: \$701,721
Prin. Invest.: J D MONROE
Tech. Officer: LARC/R A HATHAWAY
CASE Category: 41 - AERONAUTICAL ENGR

NCC 3 576 NORTH CAROLINA A&T STATE UNIV 7304
 AEROTHERMO STRUCTURAL ANALYSIS OF LOW COST COMPOSITE NOZZLE/INLET COMPONENTS
 09/19/1997 - 08/15/2000 FY01: \$0 Total: \$499,494
Prin. Invest.: K N SHIVAKUMAR, D SREE
Tech. Officer: GRC/D R REDDY
CASE Category: 41 - AERONAUTICAL ENGR

NCC 4 105 NORTH CAROLINA A&T STATE UNIV 7305
 ON THE PREVIEWED CONTROL ACTION FOR AIRCRAFT FLYING QUALITIES
 07/25/1996 - 03/30/2001 FY01: -\$6,977 Total: \$93,023
Prin. Invest.: D HOMAIFAR
Tech. Officer: DFRC/R K BOGUE
CASE Category: 41 - AERONAUTICAL ENGR

NCC 5 349 NORTH CAROLINA A&T STATE UNIV 7306
 INTEGRATION OF NASA RESEARCH INTO UNDERGRADUATE EDUCATION IN MATHEMATICS, SCIENCE, ENGINEERING AND TECHNOLOGY
 06/29/1998 - 06/30/2003 FY01: \$0 Total: \$1,500,000
Prin. Invest.: J D MONROE
Tech. Officer: GSFC/B WHITE
CASE Category: 99 - MULTI INTERDISCIPLINARY, OTHER

NGT 1 52178 NORTH CAROLINA A&T STATE UNIV 7307
 GRADUATE STUDENT RESEARCHERS PROGRAM
 09/12/1997 - 09/11/2000 FY01: -\$2,382 Total: \$63,618
Prin. Invest.: F VAINSTEIN, R P WILSON
Tech. Officer: LARC/S E WOODARD, LARC/J N JUANG
CASE Category: 42 - ASTRONAUTICAL ENGR

NGT 4 52409 NORTH CAROLINA A&T STATE UNIV 7308
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
 06/04/1999 - 10/31/2001 FY01: \$0 Total: \$44,000
Prin. Invest.: S CHANDRA, S WYLIE
Tech. Officer: DFRC/K GUPTA
CASE Category: 41 - AERONAUTICAL ENGR

NAG 1 1981 NORTH CAROLINA STATE UNIV. - RALEIGH 7309
 CRACK TURNING MECHANICS OF COMPOSITE WING SKIN PANELS
 12/17/1997 - 04/30/2001 FY01: \$20,939 Total: \$323,824
Prin. Invest.: F G YUAN
Tech. Officer: LARC/C C POE, LARC/I S RAJU
CASE Category: 41 - AERONAUTICAL ENGR

NAG 1 2216 NORTH CAROLINA STATE UNIV. - RALEIGH 7310
 ALGORITHMIC ENHANCEMENTS FOR THE VULCAN NAVIER-STOKES SOLVER
 08/09/1999 - 06/30/2002 FY01: \$15,001 Total: \$50,001
Prin. Invest.: J R EDWARDS
Tech. Officer: LARC/J A WHITE, LARC/J P DRUMMOND
CASE Category: 99 - MULTI INTERDISCIPLINARY, OTHER

NAG 1 2222 NORTH CAROLINA STATE UNIV. - RALEIGH 7311
 AN INVESTIGATION OF TERMINAL GUIDANCE & CONTROL TECHNIQUES FOR A ROBOTIC MARS LANDER
 08/06/1999 - 05/15/2001 FY01: \$0 Total: \$62,356
Prin. Invest.: G O WALBERG, B K BIRGE
Tech. Officer: LARC/E M QUEEN, LARC/R W POWELL
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 1 2287 NORTH CAROLINA STATE UNIV. - RALEIGH 7312
 MODEL DEVELOPMENT FOR HIGH PERFORMANCE PIEZOCERAMIC-BASED ACTUATORS
 03/30/2000 - 04/30/2001 FY01: -\$231 Total: \$27,769
Prin. Invest.: R C SMITH
Tech. Officer: LARC/J S HARRISON/R G BRYANT
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 1 01002 NORTH CAROLINA STATE UNIV. - RALEIGH 7313
 LEVELS OF AUTOMATION IN THE COMMERCIAL AIRCRAFT COCKPIT AND PILOT SITUATION AWARENESS
 12/06/2000 - 12/31/2001 FY01: \$63,462 Total: \$63,462
Prin. Invest.: D B KABER
Tech. Officer: LARC/A C TRUJILLO
CASE Category: 41 - AERONAUTICAL ENGR

NAG 1 01039 NORTH CAROLINA STATE UNIV. - RALEIGH 7314
 HUMAN RESPONSE ADAPTIVE AUTOMATIC EARLY SENSOR/INFO ACQUISITION & LATER STAGES OF INFO PROCESSING IN SYSTEMS OPERATIONS
 04/19/2001 - 12/31/2001 FY01: \$39,971 Total: \$39,971
Prin. Invest.: D KABER
Tech. Officer: LARC/L J PRINZEL
CASE Category: 69 - PSYCHOLOGY, OTHER

NAG 1 01041 NORTH CAROLINA STATE UNIV. - RALEIGH 7315
 MODEL DEVELOPMENT FOR HIGH PERFORMANCE PIEZOCERAMIC-BASED ACTUATORS
 03/22/2001 - 02/28/2002 FY01: \$33,886 Total: \$33,886
Prin. Invest.: R C SMITH
Tech. Officer: LARC/J S HARRISON
CASE Category: 21 - MATHEMATICS

NAG 1 01064 NORTH CAROLINA STATE UNIV. - RALEIGH 7316
 ACTIVE SHIELDING & CONTROL OF ENVIRONMENTAL NOISE
 04/19/2001 - 12/31/2001 FY01: \$10,009 Total: \$10,009
Prin. Invest.: S C TSYNKOV
Tech. Officer: LARC/C L STRETT, LARC/H L ATKINS
CASE Category: 41 - AERONAUTICAL ENGR

NAG 1 01069 NORTH CAROLINA STATE UNIV. - RALEIGH 7317
 UNINHABITED AERIAL VEHICLES (UAV) FLIGHT CONTROL USING DISTRIBUTED ACTUATION & SENSING
 05/18/2001 - 09/30/2003 FY01: \$43,308 Total: \$43,308
Prin. Invest.: N E CHOKANI, C E HALL
Tech. Officer: LARC/D L RANEY
CASE Category: 41 - AERONAUTICAL ENGR

NAG 1 01103 NORTH CAROLINA STATE UNIV. - RALEIGH 7318
 MULTISCALE MODELING OF NANOCOMPOSITES
 06/19/2001 - 06/30/2002 FY01: \$19,993 Total: \$19,993
Prin. Invest.: F G YUAN
Tech. Officer: LARC/E H GLASSGEN, LARC/E SAETHER
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 1 01111 NORTH CAROLINA STATE UNIV. - RALEIGH 7319
 A COMPUTATIONAL INTELLIGENT (CI) APPROACH TO THE PRECISION
 MARS LANDER PROBLEM
 08/09/2001 - 05/15/2002 FY01: \$35,413 Total: \$35,413
Prin. Invest.: G D WALBERG
Tech. Officer: LARC/E M QUEEN, LARC/R W POWELL
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 1 01119 NORTH CAROLINA STATE UNIV. - RALEIGH 7320
 POST-STALL FLIGHT UNSTEADY AERODYNAMIC STUDY AND GAIN-SCHED-
 ULED CONTROLLER DESIGN
 08/16/2001 - 08/31/2004 FY01: \$50,000 Total: \$50,000
Prin. Invest.: F WU
Tech. Officer: LARC/P C MURPHY
CASE Category: 41 - AERONAUTICAL ENGR

NAG 1 01128 NORTH CAROLINA STATE UNIV. - RALEIGH 7321
 ENHANCEMENT OF BUCKLING LOAD WITH THE USE OF ACTIVE MATERIALS
 09/27/2001 - 05/31/2002 FY01: \$26,106 Total: \$26,106
Prin. Invest.: F G YUAN
Tech. Officer: LARC/D R AMBER
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 2 1119 NORTH CAROLINA STATE UNIV. - RALEIGH 7322
 COMPUTATIONAL STUDY OF NANOMETER-SCALE DEVICE OPERATION &
 ENGINEERING
 02/20/1997 - 09/30/2000 FY01: -\$4,777 Total: \$249,135
Prin. Invest.: D W BRENNER, C K HALL
Tech. Officer: ARC/C ' LEVIT, ARC/D A BAILEY
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 2 1281 NORTH CAROLINA STATE UNIV. - RALEIGH 7323
 VISUAL FACTORS AFFECTING PILOT'S JUDGEMENTS OF TRAJECTORY-
 TO-TOUCHDOWN DURING EMERGENCY LANDINGS
 01/11/1999 - 12/31/2001 FY01: \$0 Total: \$185,999
Prin. Invest.: D H MERSHON, C M MAYER
Tech. Officer: ARC/I BARSHI
CASE Category: 69 - PSYCHOLOGY, OTHER

NAG 2 1502 NORTH CAROLINA STATE UNIV. - RALEIGH 7324
 PHOSPHOINOSITIDE SIGNALING AND PLANT GRAVITROPISM: A TRANS-
 GENIC APPROACH
 07/16/2001 - 07/14/2002 FY01: \$47,006 Total: \$47,006
Prin. Invest.: I Y PERERA
Tech. Officer: ARC/M M AVERNER
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 5 3743 NORTH CAROLINA STATE UNIV. - RALEIGH 7325
 NASA SPECIALIZED CENTER OF RESEARCH AND TRAINING IN BIOLOGY
 03/19/1997 - 03/14/2002 FY01: \$526,237 Total: \$4,028,631
Prin. Invest.: E DAVIES
Tech. Officer: GSFC/D P LISKOWSKI
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 5 6520 NORTH CAROLINA STATE UNIV. - RALEIGH 7326
 SEAWIFS DATA COLLECTION, CALIBRATION AND PROCESSING FOR THE
 INDIAN OCEAN
 02/12/1998 - 01/31/2001 FY01: \$0 Total: \$102,105
Prin. Invest.: J MORRISON
Tech. Officer: GSFC/J CAMPBELL
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6586 NORTH CAROLINA STATE UNIV. - RALEIGH 7327
 REFINING REMOTE SENSING ESTIMATES OF NUTRIENT CONC ENTRA-
 TIONS BASED ON TEMPERATURE
 11/07/1997 - 04/30/2002 FY01: \$0 Total: \$189,527
Prin. Invest.: D KAMYKOWSKI
Tech. Officer: GSFC/J A MARRA
CASE Category: 33 - OCEANOGRAPHY

NAG 5 7153 NORTH CAROLINA STATE UNIV. - RALEIGH 7328
 X-RAY EMISSION AND DYNAMICS OF SUPERNOVA REMNANTS - ATP
 03/31/1998 - 03/14/2002 FY01: \$0 Total: \$382,170
Prin. Invest.: S P REYNOLDS
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 7406 NORTH CAROLINA STATE UNIV. - RALEIGH 7329
 DUST DESTRUCTION IN SUPERNOVA REMNANTS - ASCA PROP OSAL
 05/28/1998 - 11/30/1999 FY01: -\$2,827 Total: \$7,672
Prin. Invest.: K BORKOWSKI
Tech. Officer: GSFC/N WHITE
CASE Category: 11 - ASTRONOMY

NAG 5 7942 NORTH CAROLINA STATE UNIV. - RALEIGH 7330
 A GENERIC DESIGN METHODOLOGY FOR DEVELOPMENT OF HI GH
 PERFORMANCE REMOTE SENSING SCIENCE DATA PROCES
 01/27/1999 - 01/31/2000 FY01: -\$1,547 Total: \$48,453
Prin. Invest.: C GLOSTER, JR.
Tech. Officer: GSFC/P S GHUMAN
CASE Category: 22 - COMPUTER SCIENCE

NAG 5 8215 NORTH CAROLINA STATE UNIV. - RALEIGH 7331
 EDUCATIONAL OUTREACH FOR RESEARCH "PRODUCTION OF ENERGETIC
 PARTICLES AT HELIOSPHERIC SHOCKS". THIS
 03/04/1999 - 10/31/2000 FY01: \$0 Total: \$9,975
Prin. Invest.: D C ELLISON
Tech. Officer: GSFC/J M GREBOWSKY
CASE Category: 13 - PHYSICS

NAG 5 8865 NORTH CAROLINA STATE UNIV. - RALEIGH 7332
 SEAWIFS DATA COLLECTION, CALIBRATION & PROCESSING FOR THE
 INDIAN OCEAN
 12/06/1999 - 01/31/2002 FY01: \$100,859 Total: \$165,884
Prin. Invest.: J MORRISON
Tech. Officer: GSFC/J MARRA
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9490 NORTH CAROLINA STATE UNIV. - RALEIGH 7333
 SOFTWARE PACKAGE FOR ANALYSIS OF THERMAL X-RAY SPECTRA OF
 SUPERNOVA REMNANTS
 04/17/2000 - 10/14/2001 FY01: \$0 Total: \$87,400
Prin. Invest.: K J BORKOWSKI
Tech. Officer: GSFC/J BREDEKAMP
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10940 NORTH CAROLINA STATE UNIV. - RALEIGH 7334
 X-RAY EMISSION AND DYNAMICS OF SUPERNOVA REMNANTS (ATP 2000)
 05/15/2001 - 05/14/2002 FY01: \$140,000 Total: \$140,000
Prin. Invest.: S P REYNOLDS
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 8 1479 NORTH CAROLINA STATE UNIV. - RALEIGH 7335
 R/S GROWTH AND PROPERTIES OF CARBON
 03/19/1998 - 01/31/2002 FY01: \$95,000 Total: \$358,333
Prin. Invest.: J BERNHOLC
Tech. Officer: MSFC/C TALLEY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1686 NORTH CAROLINA STATE UNIV. - RALEIGH 7336
 OPTICAL CHARACTERIZATION OF GAS PHASE CHEMISTRY AND SURFACE
 CHEMISTRY DURING HIGH PRESSURE PROCESS
 05/09/2000 - 12/31/2003 FY01: \$114,000 Total: \$164,000
Prin. Invest.: N DIETZ
Tech. Officer: MSFC/P DOTY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1817 NORTH CAROLINA STATE UNIV. - RALEIGH 7337
 MODELS OF MASS TRANSPORT DURING MICROGRAVITY CRYSTAL
 GROWTH OF ALLOYED SEMICONDUCTORS
 07/10/2001 - 11/30/2003 FY01: \$36,000 Total: \$36,000
Prin. Invest.: N MA
Tech. Officer: MSFC/P DOTY
CASE Category: 46 - MECHANICAL ENGR

NAG 9 1087 NORTH CAROLINA STATE UNIV. - RALEIGH 7338
 INTEGRATED PRESSURE BLADDER-RESTRAINT STRUCTURE FOR
 ADVANCED EXTRAVEHICULAR MOBILITY UNIT
 02/12/1999 - 02/11/2002 FY01: \$0 Total: \$81,144
Prin. Invest.: M H MOHAMAD
Tech. Officer: JSC/C H LIN
CASE Category: 47 - METAL & MATERIALS ENGR

NAG10 308 NORTH CAROLINA STATE UNIV. - RALEIGH 7339
 CAPTURING SELECTED LECTURES FROM THE COURSE "SPACE BIOLOGY"
 IN DIGITAL FORMAT: PHASE I
 09/24/2001 - 09/16/2002 FY01: \$38,338 Total: \$38,338
Prin. Invest.: D S BROWN
Prin. Invest.: NONE
Tech. Officer: KSC/J LETCHWORTH
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAS 1 01082 NORTH CAROLINA STATE UNIV. - RALEIGH 7340
 HEALTH MONITORING OF RLV AIRFRAME STRUCTURES
 05/30/2001 - 03/31/2002 FY01: \$219,597 Total: \$219,597
Prin. Invest.: F G YUAN, K PETERS
Tech. Officer: LARC/P H JOHNSTON
CASE Category: 41 - AERONAUTICAL ENGR

NAS 1 18944 NORTH CAROLINA STATE UNIV. - RALEIGH 7341
 SAGE III SCIENCE INVESTIGATION SUPPORT; P.I. PROFESSOR SAXENA
 10/06/1989 - 01/31/2005 FY01: \$146,300 Total: \$613,937
Prin. Invest.: V SAXENA
Tech. Officer: LARC/G MADDREA
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAS 1 99097 NORTH CAROLINA STATE UNIV. - RALEIGH 7342
 ENHANCEMENT OF TAPPS FOR AVOSS DEMONSTRATION
 06/03/1999 - 12/01/2000 FY01: \$0 Total: \$302,000
Prin. Invest.: Y L LIN, M L KAPLAN
Tech. Officer: LARC/F H PROCTOR
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 1 335 NORTH CAROLINA STATE UNIV. - RALEIGH 7343
 DETAILED MEASUREMENTS IN CAVITY SHEAR LAYER WITH OSCILLATORY
 BLOWING CONTROL
 04/09/1999 - 05/31/2000 FY01: -\$1,016 Total: \$27,307
Prin. Invest.: N CHOKANI
Tech. Officer: LARC/R D JOSLIN
CASE Category: 41 - AERONAUTICAL ENGR

NCC 1 407 NORTH CAROLINA STATE UNIV. - RALEIGH 7344
 RESEARCH ON STREAMLINES AND AERODYNAMIC HEATING FOR
 UNSTRUCTURED GRIDS ON HIGH SPEED VEHICLES
 08/28/2000 - 06/30/2001 FY01: \$0 Total: \$24,675
Prin. Invest.: F R DEJARNETTE
Tech. Officer: LARC/H H HAMILTON
CASE Category: 41 - AERONAUTICAL ENGR

NCC 1 01008 NORTH CAROLINA STATE UNIV. - RALEIGH 7345
 UAV (UNINHABITED AERIAL VEHICLE) FLIGHT TESTING 4 ADVANCED
 TECHNOLOGY CONCEPTS
 11/28/2000 - 11/30/2003 FY01: \$54,917 Total: \$54,917
Prin. Invest.: N CHOKANI, S N NIHEINZEN, C E HALL
Tech. Officer: LARC/J B ANDERS
CASE Category: 41 - AERONAUTICAL ENGR

NCC 8 95 NORTH CAROLINA STATE UNIV. - RALEIGH 7346
 FUNDAMENTAL ASPECTS OF VAPOR DEPOSITION AND ETCHING UNDER
 DIFFUSION CONTROLLED TRANSPORT
 05/31/1996 - 08/31/2000 FY01: \$0 Total: \$691,133
Prin. Invest.: K J BACHMANN
Tech. Officer: MSFC/S SPEARMAN, MSFC/J GRISHAM
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 8 159 NORTH CAROLINA STATE UNIV. - RALEIGH 7347
 APPLICATION OF REMOTE SENSING TECHNOLOGIES IN THE FOREST
 SECTOR
 10/28/1998 - 10/27/2003 FY01: \$0 Total: \$120,000
Prin. Invest.: R ABT
Tech. Officer: MSFC/J ARNOLD
CASE Category: 31 - ATMOSPHERIC SCIENCE

NGT 1 01004 NORTH CAROLINA STATE UNIV. - RALEIGH 7348
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) MY 1/3
 05/16/2001 - 06/30/2004 FY01: \$12,000 Total: \$12,000
Prin. Invest.: D KABER
Tech. Officer: LARC/L J PRINZEL, III
CASE Category: 69 - PSYCHOLOGY, OTHER

NGT 1 01007 NORTH CAROLINA STATE UNIV. - RALEIGH 7349
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) MY 1/3
 06/04/2001 - 06/30/2004 FY01: \$12,000 Total: \$12,000
Prin. Invest.: L SILVERBERG
Tech. Officer: LARC/D E COX
CASE Category: 41 - AERONAUTICAL ENGR

NGT 1 01032 NORTH CAROLINA STATE UNIV. - RALEIGH 7350
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) MY 1/2
 06/22/2001 - 06/30/2003 FY01: \$12,000 Total: \$12,000
Prin. Invest.: H T BANKS
Tech. Officer: LARC/W P WINIFREE
CASE Category: 21 - MATHEMATICS

NGT 1 52172 NORTH CAROLINA STATE UNIV. - RALEIGH 7351
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
 06/30/1997 - 06/30/2000 FY01: -\$4,449 Total: \$61,552
Prin. Invest.: F R DE JARNETTE, K E HARWELL
Tech. Officer: LARC/H H HAMILTON, LARC/E V ZOBY
CASE Category: 41 - AERONAUTICAL ENGR

NGT 1 52183 NORTH CAROLINA STATE UNIV. - RALEIGH 7352
 GRADUATE STUDENTS RESEARCHERS PROGRAM (GSRP)
 08/31/1998 - 06/30/2000 FY01: -\$582 Total: \$43,418
Prin. Invest.: M SMITH
Tech. Officer: LARC/B E ANDERSON, LARC/V S CONNORS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NGT 1 52196 NORTH CAROLINA STATE UNIV. - RALEIGH 7353
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
 05/22/1998 - 06/30/2001 FY01: \$12,000 Total: \$66,001
Prin. Invest.: M L JOYNER, H T BANKS
Tech. Officer: LARC/W P WINFREE, LARC/R A WINCHESKI
CASE Category: 21 - MATHEMATICS

NGT 1 52242 NORTH CAROLINA STATE UNIV. - RALEIGH 7354
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
 06/22/2000 - 06/30/2001 FY01: \$12,001 Total: \$22,001
Prin. Invest.: G P
Tech. Officer: LARC/W P WINFREE
CASE Category: 21 - MATHEMATICS

NGT 5 65 NORTH CAROLINA STATE UNIV. - RALEIGH 7355
 GSRP TRAINING GRANT - KRISTY DYER - THERMAL AND NO N-THERMAL
 PHYSICS OF OUNGSUPERNOVA REMNANTS
 05/27/1998 - 08/14/2002 FY01: \$0 Total: \$66,000
Prin. Invest.: S O REYNOLDS
Tech. Officer: GSFC/M S BURRELL
CASE Category: 13 - PHYSICS

NGT 5 30054 NORTH CAROLINA STATE UNIV. - RALEIGH 7356
 CONSTRAINING CARBON MONOXIDE SOURCES BY MODELING ITS STABLE
 ISOTOPES
 10/24/1997 - 08/31/2002 FY01: \$0 Total: \$66,000
Prin. Invest.: D REICHLER
Tech. Officer: GSFC/A GHASSEM
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30192 NORTH CAROLINA STATE UNIV. - RALEIGH 7357
 WATER, HEAT AND SALT BUDGET IN THE NORTHERN INDIAN OCEAN/STU-
 DENT: WEI SHI
 08/19/1999 - 08/31/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: J M MORRISON
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 40011 NORTH CAROLINA STATE UNIV. - RALEIGH 7358
 TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE
 AND FELLOWSHIP PROGRAM.
 01/30/1997 - 02/28/2002 FY01: -\$48,709 Total: \$928,341
Prin. Invest.: F R DEJARNETTE
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40109 NORTH CAROLINA STATE UNIV. - RALEIGH 7359
 NORTH CAROLINA SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
 03/02/2001 - 02/28/2002 FY01: \$304,959 Total: \$304,959
Prin. Invest.: F R DEJARNETTE
Tech. Officer: GSFC/D D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 1 01126 SHAW UNIV 7360
 SCIENTISTS PLUS ALLIES CONTRIBUTING TO EDUCATION (SPACE)
 09/25/2001 - 08/31/2002 FY01: \$99,364 Total: \$99,364
Prin. Invest.: P PIERCE RAMSEY
Tech. Officer: LARC/R HATHAWAY
CASE Category: 41 - AERONAUTICAL ENGR

NAG 5 9195 SHAW UNIV 7361
 SHAW UNIV MSET PRE-COLLEGE EXPERIENCE
 03/10/2000 - 02/28/2002 FY01: \$88,107 Total: \$181,917
Prin. Invest.: K SATAGOPAN
Tech. Officer: GSFC/M STOUTSENBERGER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 1 2301 UNIV OF NORTH CAROLINA - CHAPEL HILL 7362
 CHEMICAL MODIFICATION OF NANOTUBES FOR COMPOSITES
 06/08/2000 - 05/31/2003 FY01: \$102,529 Total: \$152,865
Prin. Invest.: E T SAMULSKI
Tech. Officer: LARC/E J SIOCHI
CASE Category: 12 - CHEMISTRY

NAG 1 01061 UNIV OF NORTH CAROLINA - CHAPEL HILL 7363
 SCIENCE AND TECHNOLOGY OF NEW CARBON NANOTUBE- BASED
 COMPOSITES
 04/17/2001 - 01/31/2004 FY01: \$382,970 Total: \$382,970
Prin. Invest.: O
Tech. Officer: LARC/J SMITH, JR
CASE Category: 41 - AERONAUTICAL ENGR

NAG 2 1188 UNIV OF NORTH CAROLINA - CHAPEL HILL 7364
 BONE MATRIX CHANGES DURING SKELETAL UNLOADING & RE LOADING
 08/15/2000 - 04/30/2002 FY01: \$0 Total: \$509,761
Prin. Invest.: M YAMAUCHI, W J GRZESKI
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 5 3100 UNIV OF NORTH CAROLINA - CHAPEL HILL 7365
 RADIATIVE PHYSICS OF THE SOFT GAMMA REPEATERS
 10/11/1995 - 01/14/2001 FY01: \$0 Total: \$99,000
Prin. Invest.: C EVANS
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 22 - COMPUTER SCIENCE

NAG 5 6278 UNIV OF NORTH CAROLINA - CHAPEL HILL 7366
 GREENHOUSE GAS (N2O, CH4) EXCHANGE AND N CYCLING D FERTILIZED
 (FACE) TEMPERATE FOREST
 09/12/1997 - 08/31/2001 FY01: \$26,177 Total: \$254,765
Prin. Invest.: S C WHALEN
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8924 UNIV OF NORTH CAROLINA - CHAPEL HILL 7367
 LABORATORY STUDIES OF THE OPTICAL CONSTANTS & MICROPHYSICAL
 PROPERTIES OF STRATOSPHERIC & UPPER TROPOSPHERIC
 01/06/2000 - 12/31/2001 FY01: \$90,000 Total: \$203,536
Prin. Invest.: R E MILLER
Tech. Officer: GSFC/P DECOLA
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 11290 UNIV OF NORTH CAROLINA - CHAPEL HILL 7368
 SIMULATING OF LAND USE DYNAMICS IN SE ASIA: A CELLULAR AUTOMA-
 TION APPROACH
 08/21/2001 - 08/31/2004 FY01: \$187,891 Total: \$187,891
Prin. Invest.: R RINDFUSS
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 8 1580 UNIV OF NORTH CAROLINA - CHAPEL HILL 7369
 QUANTITATIVE, MULTIVARIATE METHOD/PRE-FLIGHT OPTIMIZATION, &
 POST-FLIGHT EVALUATION OF CRYSTAL GROWTH.
 02/04/1999 - 11/30/2002 FY01: \$176,700 Total: \$501,677
Prin. Invest.: C W CARTER, JR.
Tech. Officer: MSFC/B GUYNES
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NCC 2 5372 UNIV OF NORTH CAROLINA - CHAPEL HILL 7370
 NOVEL PROPERTIES OF CARBON NANOTUBES AND RELATED NANOS-
 TRUCTURES
 03/23/2000 - 03/14/2002 FY01: \$80,000 Total: \$170,000
Prin. Invest.: J LU
Tech. Officer: ARC/M MEYYPAN
CASE Category: 13 - PHYSICS

NCC 5 295 UNIV OF NORTH CAROLINA - CHAPEL HILL 7371
 AGRICULTURAL COLONIZATION ON THE ECUADORIAN AMAZON: POPULA-
 TION, BIOPHYSICAL AND GEOGRAPHICAL FACTOR
 06/12/1998 - 12/31/2001 FY01: \$161,231 Total: \$811,893
Prin. Invest.: R BILSBORROW
Tech. Officer: GSFC/D DEERING
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 5 337 UNIV OF NORTH CAROLINA - CHAPEL HILL 7372
 RADON-222 AND STABLE CARBON ISOTOPE TRACING OF CARBON
 EXCHANGE AND TRACE GAS FLUXES IN OLD GROWTH A
 06/17/1998 - 12/31/2001 FY01: \$218,935 Total: \$782,600
Prin. Invest.: C S MARTENS
Tech. Officer: GSFC/D W DEERING
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 2 52247 UNIV OF NORTH CAROLINA - CHAPEL HILL 7373
 SYNTHESIS & PROPERTIES OF CARBON NANOTUBES & CARBON NANO-
 TUBE INTERCALATION COMPOUNDS
 08/19/1998 - 08/14/2000 FY01: \$0 Total: \$44,000
Prin. Invest.: O ZHOU
Tech. Officer: ARC/R L JAFFE
CASE Category: 47 - METAL & MATERIALS ENGR

NGT 2 52254 UNIV OF NORTH CAROLINA - CHAPEL HILL 7374
 CMOS SMART SENSORS FOR TRACKING IN NATURAL ENVIRONMENTS
 07/19/1999 - 07/14/2000 FY01: \$0 Total: \$22,000
Prin. Invest.: G BISHOP
Tech. Officer: ARC/H THOMAS, ARC/S LAU
CASE Category: 22 - COMPUTER SCIENCE

NGT 5 30177 UNIV OF NORTH CAROLINA - CHAPEL HILL 7375
 THE MIGRATION ORIGINS OF DEFORESTATION IN A PROTECTED AREA:
 COLONIZATION CLEAR-CUTTING, AND CORN IN
 08/12/1999 - 08/31/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: T M WHITMORE
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30389 UNIV OF NORTH CAROLINA - CHAPEL HILL 7376
 WIND DRIVEN TRANSPORT PROCESSES OFF THE OREGON COAST:
 DIRECT AND REMOTE SENSING OF COASTAL OCEAN PR
 08/14/2001 - 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: J BANE
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30390 UNIV OF NORTH CAROLINA - CHAPEL HILL 7377
 DISTRIBUTED HYDROLOGICAL MODELING OF URBANIZING ECOSYSTEMS:
 INVESTIGATING THE IMPACT OF URBANIZATION
 08/14/2001 - 08/31/2004 FY01: \$20,470 Total: \$20,470
Prin. Invest.: L BAND
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50311 UNIV OF NORTH CAROLINA - CHAPEL HILL 7378
 MONOLAYER-PROTECTED CLUSTERS: NEW AND UNUSUAL NANO METER-
 SCALE ELECTRONICS MATERIALS/STUDENT W. WUEL
 07/07/2000 - 09/30/2001 FY01: \$0 Total: \$22,000
Prin. Invest.: R W MURRAY
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 8114 UNIV OF NORTH CAROLINA AT WILMINGTON 7379
 HIGH-TROPHIC LEVEL ECOSYSTEM RESPONSE TO CLIMATE CHANGE IN
 THE ANTARCTIC PENINSULA
 01/25/1999 - 12/31/2001 FY01: \$0 Total: \$165,725
Prin. Invest.: S D EMSLIE
Tech. Officer: GSFC/J W CAMPBELL
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 9 1296 UNIV OF NORTH CAROLINA-GREENSBORO 7380
 SELF-REPORTING SPACE CORPS: EDIBLE BIOSENSORS
 04/27/2001 - 04/30/2002 FY01: \$57,000 Total: \$57,000
Prin. Invest.: C N STEWART
Tech. Officer: JSC/D RUSSO
CASE Category: 54 - ENVIRONMENTAL BIOLOGY

NAG 8 1314 UNIV OF NORTH CAROLINA, CHARLOTTE 7381
 RESEARCH JOVE
 01/22/1997 - 08/31/2000 FY01: -\$7,057 Total: \$127,443
Prin. Invest.: R D FORSYTHE, P WANG, S E MARSHALL
Tech. Officer: MSFC/J F DOWDY, MSFC/J R PRUITT
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1514 UNIV OF NORTH CAROLINA, CHARLOTTE 7382
 VARIABILITY & PREDICTABILITY OF LAND-ATMOSPHERE INTERACTIONS:
 OBSERVATIONAL AND MODELING STUDIES
 06/02/1998 - 05/31/2001 FY01: -\$1,574 Total: \$138,326
Prin. Invest.: S MARSHALL, NONE
Tech. Officer: MSFC/J ARNOLD
CASE Category: 31 - ATMOSPHERIC SCIENCE

NGT 8 52901 UNIV OF NORTH CAROLINA, CHARLOTTE 7383
 CHARACTERIZATION OF X-RAY OPTICS MANUFACTURE AND ITS APPLICATION TO WOLTERMICROSCOPE OPTICS.
 05/25/2001 - 07/01/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: S SMITH
Tech. Officer: MSFC/S NASH-STEVENSON
CASE Category: 46 - MECHANICAL ENGR

NAG 2 1203 WAKE FOREST UNIV 7384
 FUCUS AS A MODEL SYSTEM TO STUDY THE ROLE OF SUXIN TRANSPORT & THE ACTIN CYTOSKELETON IN GRAVITY...
 04/06/1998 - 04/30/2002 FY01: \$0 Total: \$399,796
Prin. Invest.: G K MUDAAY
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 2 1507 WAKE FOREST UNIV 7385
 REGULATION OF AUXIN TRANSPORT BY PHOSPHORYLATION AND FLAVONOIDS DURING GRAVITROPISM IN ARABIDOPSIS
 07/20/2001 - 07/31/2002 FY01: \$67,694 Total: \$67,694
Prin. Invest.: G K MUDAY
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 3 2011 WINSTON-SALEM STATE UNIV 7386
 PARALLEL OBJECT-ORIENTED PROGRAMMING IN NETWORK ENVIRONMENT
 02/21/1997 - 02/28/2001 FY01: -\$722 Total: \$143,266
Prin. Invest.: A RADENSKI
Tech. Officer: GRC/G FOLLEN
CASE Category: 22 - COMPUTER SCIENCE

NAG 3 2515 WINSTON-SALEM STATE UNIV 7387
 GENERIC DIVIDE AND CONQUER INTERNET-BASED GENERIC DIVIDE AND CONQUER INTERNET-BASED
 12/22/2000 - 12/21/2003 FY01: \$51,839 Total: \$51,839
Prin. Invest.: D RADENSKI
Tech. Officer: GRC/G J FOLLEN
CASE Category: 22 - COMPUTER SCIENCE

NAG 8 1099 WINSTON-SALEM STATE UNIV 7388
 JOVE
 10/18/1994 - 02/25/2000 FY01: -\$1,498 Total: \$105,502
Prin. Invest.: F LEE, E J JONES
Tech. Officer: MSFC/F SIX
CASE Category: 29 - MATH/COMPUTER SCI, OTHER

NORTH DAKOTA

NAG 4 209 NORTH DAKOTA STATE UNIV 7389
 ADAPTIVE MULTISCALE ALGORITHMS FOR NON-LINEAR ESTIMATION OF AEROSPACE SYSTEMS
 05/31/2000 - 02/12/2001 FY01: -\$271 Total: \$12,757
Prin. Invest.: Y XU
Tech. Officer: DFRC/M J BRENNER
CASE Category: 41 - AERONAUTICAL ENGR

NGT 1 52159 NORTH DAKOTA STATE UNIV 7390
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
 06/27/1997 - 06/30/2000 FY01: -\$9,110 Total: \$56,890
Prin. Invest.: M SOUCEK, C R WOLD
Tech. Officer: LARC/R PATER
CASE Category: 11 - ASTRONOMY

NGT 4 52411 NORTH DAKOTA STATE UNIV 7391
 ADAPTIVE MULTISCALE ALGORITHMS
 05/11/1999 - 07/31/2000 FY01: \$0 Total: \$22,000
Prin. Invest.: Y XU, W K PERRIZO
Tech. Officer: DFRC/K GUPTA
CASE Category: 41 - AERONAUTICAL ENGR

NGT 4 52424 NORTH DAKOTA STATE UNIV 7392
 GRAD STU RES PRO (GSRP)-PROP TITLE : ADAPTIVE MULTISCALE ALGORITHMS FOR NONLINEAR EST OF AEROSP SY
 09/26/2000 - 09/25/2001 FY01: \$0 Total: \$22,000
Prin. Invest.: Y XU
Tech. Officer: DFRC/K K GUPTA
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 1911 UNIV OF NORTH DAKOTA 7393
 AMERICAN INDIANS INTO COMPUTER SCIENCE & ENGINEERING PROGRAM (AICSE)
 07/08/1996 - 05/31/2000 FY01: -\$672 Total: \$58,096
Prin. Invest.: M S ALI, A ALLERY
Tech. Officer: GRC/D R PLUMER, GRC/S A MERRITT
CASE Category: 22 - COMPUTER SCIENCE

NAG 5 2696 UNIV OF NORTH DAKOTA 7394
 BRINGING VOLCANO REMOTE SENSING DATA TO CLASSROOMS NATIONAL PARKS AND MONUMENTS
 08/17/1994 - 09/30/2000 FY01: -\$13,765 Total: \$841,722
Prin. Invest.: C A WOOD
Tech. Officer: GSFC/F HASLER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 3616 UNIV OF NORTH DAKOTA 7395
 A PUBLIC ACCESS RESOURCE CENTER (PARC) EMPOWERING TO USE EOSDI IMPLEMENTATION PHASE
 11/22/1996 - 06/30/2002 FY01: \$999,924 Total: \$4,816,924
Prin. Invest.: G A SEIELSTAD
Tech. Officer: GSFC/J J COLLIER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 5340 UNIV OF NORTH DAKOTA 7396
 EVALUATION OF NASA POLARIMETRIC (NPOL) RADAR OBSERVATIONS COLLECTED DURING THE KEYS AREA MICROPHYSIC
 07/16/2001 - 12/31/2002 FY01: \$74,217 Total: \$74,217
Prin. Invest.: P KUCERA
Tech. Officer: WFF/J GERLACH
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7950 UNIV OF NORTH DAKOTA 7397
 CO2 BUDGET AND RECTIFICATION AIRBORNE STUDY--NORTH AMERICA (COBRA--NA)
 12/21/1998 - 12/14/2001 FY01: \$0 Total: \$180,250
Prin. Invest.: C A GRAINGER
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8681 UNIV OF NORTH DAKOTA 7398
 BEYOND THE CUTTING EDGE: INNOVATIVE INTERNET EDUCATION TECHNOLOGIES
 07/23/1999 – 09/30/2000 FY01: -\$320 Total: \$99,680
Prin. Invest.: C WOOD
Tech. Officer: GSFC/N LAL
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 9656 UNIV OF NORTH DAKOTA 7399
 MICROPHYSICAL CHARACTERISTICS OF CLOUDS DURING THE TRMM FIELD CAMPAIGNS
 06/05/2000 – 05/31/2002 FY01: \$42,356 Total: \$101,655
Prin. Invest.: C A GRAINGER
Tech. Officer: HQ/R J LAWRENCE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG10 283 UNIV OF NORTH DAKOTA 7400
 CLOUD ELECTRIC FIELDS AND MICROPHYSICS STUDIES CLOUD ELECTRIC FIELDS AND MICROPHYSICS STUDIES
 05/23/2000 – 06/03/2002 FY01: \$429,054 Total: \$821,054
Prin. Invest.: D GRAINGER
Tech. Officer: KSC/F J MERCERET
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG13 01006 UNIV OF NORTH DAKOTA 7401
 NORTHERN GREAT PLAINS CENTER OF PEOPLE AND THE ENVIRONMENT
 07/30/2001 – 04/30/2002 FY01: \$1,496,700 Total: \$1,496,700
Prin. Invest.: G A SEIESTAD
Tech. Officer: SSC/B A SPIERING
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG13 99006 UNIV OF NORTH DAKOTA 7402
 NORTHERN GREAT PLAINS REGIONAL EARTH SCIENCE APPLICATIONS CENTER
 03/01/1999 – 02/28/2002 FY01: \$0 Total: \$1,720,000
Prin. Invest.: P R ZIMMERMAN
Tech. Officer: SSC/C HILL
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NCC 5 310 UNIV OF NORTH DAKOTA 7403
 A PUBLIC ACCESS RESOURCE CENTER (PARC) EMPOWERING THE GENERAL PUBLIC TO USE EOSDIS (PHASE III- OPERATIONS)
 04/11/1998 – 06/30/2002 FY01: \$574,300 Total: \$2,202,300
Prin. Invest.: G SEIELSTAD
Tech. Officer: GSFC/A TUYAHOV
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NCC 5 399 UNIV OF NORTH DAKOTA 7404
 NASA EPSCOR: PREPARATORY GRANT PROPOSAL
 05/14/1999 – 04/30/2002 FY01: \$0 Total: \$450,000
Prin. Invest.: C WOOD
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NCC 5 503 UNIV OF NORTH DAKOTA 7405
 A MULTI-USE AIRBORNE RESEARCH FACILITY
 06/20/2000 – 06/30/2003 FY01: \$50,000 Total: \$143,257
Prin. Invest.: M POELLET
Tech. Officer: GSFC/C YUHAS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 5 582 UNIV OF NORTH DAKOTA 7406
 NORTH DAKOTA NASA EPSCOR PROGRAM
 08/16/2001 – 08/14/2004 FY01: \$125,000 Total: \$125,000
Prin. Invest.: R ANDRES
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 40034 UNIV OF NORTH DAKOTA 7407
 TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE AND FELLOWSHIP PROGRAM.
 02/13/1997 – 02/28/2001 FY01: \$0 Total: \$931,062
Prin. Invest.: C A WOOD
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 40117 UNIV OF NORTH DAKOTA 7408
 NORTH DAKOTA SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
 03/08/2001 – 02/28/2002 FY01: \$248,562 Total: \$248,562
Prin. Invest.: R ANDRES
Tech. Officer: GSFC/D D DETROYE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

OHIO

NAG 3 2443 BOWLING GREEN STATE UNIV 7409
 PROPOSED TRIAL OF FRESHLY COLLECTED LANDSAT 7 TM DATA FOR REMOTE SENSING APPLICATIONS IN NORTHWEST
 05/31/2000 – 09/30/2001 FY01: \$0 Total: \$105,000
Prin. Invest.: D K VINCENT
Tech. Officer: GRC/T M SCOTT
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 9 1186 BOWLING GREEN STATE UNIV 7410
 PATHOGEN REDUCTION ON LETTUCE AND RADISHES USING HYDROGEN PEROXIDE
 01/10/2000 – 11/30/2001 FY01: \$0 Total: \$18,412
Prin. Invest.: D L HENTGES, NONE
Tech. Officer: JSC/V L KLOERIS
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAS 3 99202 BOWLING GREEN STATE UNIV 7411
 PURCHASE OF DYNAMIC ELECTRIC MOTOR LOAD SIMULATOR
 09/24/1999 – 12/31/2000 FY01: \$0 Total: \$359,986
Prin. Invest.: S BALLARD
Tech. Officer: GRC/J L DOLCE
CASE Category: 41 – AERONAUTICAL ENGR

NAG 2 1333 CASE WESTERN RESERVE UNIV 7412
 DISCRETE FILEDS FOR AIR TRAFFIC MANAGEMENT
 07/01/1999 – 12/31/2001 FY01: \$34,333 Total: \$86,610
Prin. Invest.: M S BRANICKY
Tech. Officer: ARC/G MEYER
CASE Category: 49 – ENGINEERING, OTHER

NAG 2 1356 CASE WESTERN RESERVE UNIV 7413
 EFFECTS OF MICROGRAVITY ON ZEBRAFISH VESTIBULAR DEVELOPMENT
 07/23/1999 – 07/31/2002 FY01: \$122,948 Total: \$305,164
Prin. Invest.: S J MOORMAN, NONE
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 3 1868 CASE WESTERN RESERVE UNIV 7414
 INDUSTRIAL PROCESSES INFLUENCED BY GRAVITY
 05/09/1996 – 04/08/2001 FY01: \$0 Total: \$396,073
Prin. Invest.: S OSTRACH, Y KAMOTANI
Tech. Officer: GRC/A D PLINE, GRC/N R HALL
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 1913 CASE WESTERN RESERVE UNIV 7415
 BUBBLE GENERATION IN A FLOWING LIQUID MEDIUM & RES ULTING TWO-
 PHASE FLOW IN MICROGRAVITY
 07/10/1996 – 09/30/2000 FY01: -\$446 Total: \$383,528
Prin. Invest.: Y KAMOTANI, J OSTRACH
Prin. Invest.: J KADAMBI
Tech. Officer: GRC/D F CHAO
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 3 2110 CASE WESTERN RESERVE UNIV 7416
 NOVEL PIV TECHNIQUE FOR PLANAR PARTICLE SIZE AND V OLOCITY
 MEASUREMENTS FOR SPRAY DIAGNOSTICS
 01/08/1998 – 10/31/2000 FY01: \$0 Total: \$224,947
Prin. Invest.: J R KADAMBI
Tech. Officer: GRC/M P WERNET
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 3 2160 CASE WESTERN RESERVE UNIV 7417
 STABILITY LIMITS AND DYNAMICS OF NONAXISYMMETRIC L IQUID
 BRIDGES
 04/24/1998 – 05/31/2001 FY01: \$0 Total: \$335,877
Prin. Invest.: I D ALEXANDER
Tech. Officer: GRC/J C DUH, GRC/B S SINGH
CASE Category: 46 – MECHANICAL ENGR

NAG 3 2204 CASE WESTERN RESERVE UNIV 7418
 ESTABLISH THE GLENNAN MICROSYSTEM INITIATIVE ESTABLISH THE
 GLENNAN MICROSYSTEM INITIATIVE
 09/25/1998 – 01/01/2001 FY01: \$0 Total: \$2,258,000
Prin. Invest.: M MEHREGANY
Tech. Officer: GRC/L G MATUS
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 2210 CASE WESTERN RESERVE UNIV 7419
 THE FEASIBILITY OF APPLYING TOMOGRAPHIC TECHNIQUES IN THE ICING
 RESEARCH WIND TUNNEL
 11/19/1998 – 05/20/2002 FY01: \$40,437 Total: \$144,967
Prin. Invest.: S H IZEN
Tech. Officer: GRC/C R MERCER
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 3 2238 CASE WESTERN RESERVE UNIV 7420
 IDENTIFICATION OF GRAVITY-RELATED EFFECTS ON CRYST AL GROWTH
 FROM MELTS WITH AN IMISCIBILITY GAP
 02/24/1999 – 08/04/2000 FY01: \$0 Total: \$70,067
Prin. Invest.: A SAYIR
Tech. Officer: GRC/B S SINGH
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 2239 CASE WESTERN RESERVE UNIV 7421
 CANDLE FLAMES IN MICROGRAVITY CANDLE FLAMES IN MICROGRAVITY
 02/24/1999 – 05/02/2000 FY01: \$0 Total: \$56,500
Prin. Invest.: I ADAMOVICH
Tech. Officer: GRC/S J SCHNEIDER
CASE Category: 46 – MECHANICAL ENGR

NAG 3 2243 CASE WESTERN RESERVE UNIV 7422
 ADVANCEMENT OR TRANSDUCER SENSOR SYSTEM FOR CRACK
 CONTAMINATION DETECTION
 03/12/1999 – 07/30/2002 FY01: \$0 Total: \$100,000
Prin. Invest.: D HAZONY
Tech. Officer: GRC/D NG
CASE Category: 41 – AERONAUTICAL ENGR

NAG 3 2315 CASE WESTERN RESERVE UNIV 7423
 MODELING OF BALLISTIC IMPACT BEHAVIOR OF INCONEL 7 18 ALLOYS
 WITH APPLICATIONS TO ENGINE BLADE CONTA
 12/30/1999 – 12/15/2001 FY01: \$121,932 Total: \$161,932
Prin. Invest.: V PRAKASH
Tech. Officer: GRC/J PEREIRA
CASE Category: 46 – MECHANICAL ENGR

NAG 3 2331 CASE WESTERN RESERVE UNIV 7424
 CANDLE FLAMES IN MICROGRAVITY CANDLE FLAMES IN MICROGRAVITY
 02/10/2000 – 02/08/2002 FY01: \$14,000 Total: \$56,323
Prin. Invest.: J S T' IEN
Tech. Officer: GRC/D L KIETRICH
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 3 2391 CASE WESTERN RESERVE UNIV 7425
 SATELLITE AND TERRESTRIAL NETWORK ANALYSIS SATELLITE AND
 TERRESTRIAL NETWORK ANALYSIS
 04/13/2000 – 05/31/2001 FY01: \$0 Total: \$27,646
Prin. Invest.: J ISHAC
Tech. Officer: GRC/W HVANCIC
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 3 2504 CASE WESTERN RESERVE UNIV 7426
 INSITU MONITORING OF BIOLOGICAL MATERIAL USING LOW -COHERENCE
 INTERFEROMETRIC SENSORS
 11/13/2000 – 09/30/2002 FY01: \$253,000 Total: \$253,000
Prin. Invest.: B OVRYN
Tech. Officer: GRC/F P CHIARAMONTE
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 2541 CASE WESTERN RESERVE UNIV 7427
 TIME DEPENDENT NUMERICAL SIMULATIONS OF SOLIDIFIC ATION
 PROCESSES
 02/09/2001 – 02/05/2003 FY01: \$0 Total: \$0
Prin. Invest.: P L TAYLOR
Tech. Officer: GRC/A CHAIT
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 2578 CASE WESTERN RESERVE UNIV 7428
 RESEARCH INIATIVE IN SPACE COMMUNICATIONS AND NETW ORKS
 03/30/2001 – 03/25/2002 FY01: \$390,000 Total: \$390,000
Prin. Invest.: F L MERAT
Tech. Officer: GRC/K BHASIN
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 2581 CASE WESTERN RESERVE UNIV 7429
 ANALYSIS OF DROPLET SPLASHING IN AIRCRAFT ICING CO NDITIONS
 04/02/2001 – 11/30/2001 FY01: \$47,774 Total: \$47,774
Prin. Invest.: J D ALEXANDER, NONE
Tech. Officer: GRC/M G POTAPCZUK
CASE Category: 41 – AERONAUTICAL ENGR

NAG 3 2620 **CASE WESTERN RESERVE UNIV** **7430**
 INVESTIGATION OF ROTARY BLOOD PUMP FLOW USING PIV INVESTIGATION OF ROTARY BLOOD PUMP FLOW USING PIV
 06/29/2001 - 10/31/2002 FY01: \$125,406 Total: \$125,406
Prin. Invest.: J R KADAMBI
Tech. Officer: GRC/J M SANKOVIC
CASE Category: 56 - MEDICL

NAG 3 2644 **CASE WESTERN RESERVE UNIV** **7431**
 INKJET METHODOLOGIES FOR THE FABRICATION OF SECONDARY LITHIUM-ION MICROBATTERIES INCORPORATING NANO
 08/17/2001 - 06/30/2002 FY01: \$41,700 Total: \$41,700
Prin. Invest.: D A SCHERSON
Tech. Officer: GRC/D L BRITTON
CASE Category: 12 - CHEMISTRY

NAG 5 6715 **CASE WESTERN RESERVE UNIV** **7432**
 AN ELECTRON MICROSCOPY SURVEY OF CARBONATE-BEARING REGIONS OF ALH84001
 12/10/1997 - 11/30/2000 FY01: \$0 Total: \$120,000
Prin. Invest.: R HARVEY
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 7019 **CASE WESTERN RESERVE UNIV** **7433**
 THE EVOLUTION OF GALAXIES HARBORING CENTRAL MASSIVE BLACK HOLES - ATP
 02/19/1998 - 02/14/2002 FY01: \$0 Total: \$260,505
Prin. Invest.: C MIHOS
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 11059 **CASE WESTERN RESERVE UNIV** **7434**
 FEASIBILITY STUDY OF PLANS TO USE THE SUN AS A GRAVITATIONAL LENS FOR ASTRONOMY
 06/27/2001 - 06/30/2002 FY01: \$99,995 Total: \$99,995
Prin. Invest.: G STARKMAN
Tech. Officer: GSFC/G STRINGFELLOW
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 11122 **CASE WESTERN RESERVE UNIV** **7435**
 RECOVERY AND STUDY OF ANTARCTIC MARTIAN METEORITES
 07/18/2001 - 07/14/2002 FY01: \$186,415 Total: \$186,415
Prin. Invest.: R HARVEY
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 8 1270 **CASE WESTERN RESERVE UNIV** **7436**
 DETERMINATION OF THE SURFACE ENERGY OF LIQUID CRYSTALS
 05/03/1996 - 05/31/2001 FY01: \$0 Total: \$280,000
Prin. Invest.: C ROSENBLATT, P L TAYLOR
Tech. Officer: MSFC/C R TALLEY
CASE Category: 13 - PHYSICS

NAG 8 1727 **CASE WESTERN RESERVE UNIV** **7437**
 PROPOSAL "VIBRATION AND G-JITTER: TRANSPORT DISTURBANCES DUE TO RESIDUAL ACCELERATION/LOW GRAVITY."
 06/19/2000 - 11/30/2003 FY01: \$95,000 Total: \$139,837
Prin. Invest.: J I ALEXANDER
Tech. Officer: MSFC/P DOTY
CASE Category: 42 - AERONAUTICAL ENGR

NAG 8 1779 **CASE WESTERN RESERVE UNIV** **7438**
 SIMULATED MICROGRAVITY MEASUREMENT TECHNIQUES FOR THE STUDY OF DYNAMIC EFFECTS IN PHOSPHOLIPID SUR
 04/24/2001 - 04/30/2005 FY01: \$80,000 Total: \$80,000
Prin. Invest.: C ROSENBLATT, P L TAYLOR
Tech. Officer: MSFC/D HUBBARD
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NCA 3 201 **CASE WESTERN RESERVE UNIV** **7439**
 GLENNAN MICROSYSTEMS INITIATIVE FY00 PROJECTS GLENNAN MICROSYSTEMS INITIATIVE FY00PROJECTS
 05/12/2000 - 10/31/2001 FY01: \$1,114,001 Total: \$2,352,471
Prin. Invest.: M MEHREGANY, C LIU
Tech. Officer: GRC/L G MATUS
CASE Category: 45 - ELECTRICAL ENGR

NCC 2 1204 **CASE WESTERN RESERVE UNIV** **7440**
 EFFECTS OF MICROGRAVITY DURING THE CRITICAL PERIOD OF ZEBRAFISH VESTIBULAR DEVELOPMENT
 09/29/2000 - 12/31/2001 FY01: \$10,000 Total: \$30,000
Prin. Invest.: S J MOORMAN
Tech. Officer: ARC/D REISS-BUBENHEIM, ARC/R W BERTHOLD
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NCC 3 372 **CASE WESTERN RESERVE UNIV** **7441**
 A STUDY OF THE MECHANICAL PROPERTIES OF DIRECTIONALLY SOLIDIFIED & CHARACTERIZATION OF HIGH TEMPERATURE
 11/15/1994 - 04/30/2001 FY01: \$0 Total: \$1,322,773
Prin. Invest.: A SAYIR
Tech. Officer: GRC/J A DICARLO, GRC/S R LEVINE
CASE Category: 47 - METAL & MATERIALS ENGR

NCC 3 463 **CASE WESTERN RESERVE UNIV** **7442**
 MONOLITHIC CU-CR-NB ALLOYS FOR ELEVATED TEMPERATURE HIGH HEAT FLUX APPLICATIONS
 04/10/1996 - 01/18/2001 FY01: \$0 Total: \$367,032
Prin. Invest.: G M MICHAL, D L ELLIS
Tech. Officer: GRC/R V MINER, GRC/M V NATHAL
CASE Category: 47 - METAL & MATERIALS ENGR

NCC 3 464 **CASE WESTERN RESERVE UNIV** **7443**
 THE ROLE OF FIBER-ARCHITECTURE ON THE MECHANICAL PROPERTIES OF TITANIUM MATRIX COMPOSITES
 04/11/1996 - 06/30/2000 FY01: \$0 Total: \$243,492
Prin. Invest.: R M AIKEN, JR.
Tech. Officer: GRC/S M ARNOLD
CASE Category: 41 - AERONAUTICAL ENGR

NCC 3 587 **CASE WESTERN RESERVE UNIV** **7444**
 TIME DEPENDENT NUMERICAL SIMULATIONS OF SOLIDIFICATION PROCESSES
 01/01/1998 - 12/31/2002 FY01: \$93,725 Total: \$362,842
Prin. Invest.: P L TAYLOR
Tech. Officer: GRC/A CHIT
CASE Category: 13 - PHYSICS

NCC 3 633 **CASE WESTERN RESERVE UNIV** **7445**
 COMBUSTION OF SOLID FUEL IN VERY LOW SPEED OXYGEN STREAMS
 06/30/1998 - 09/02/2003 FY01: \$182,400 Total: \$516,012
Prin. Invest.: J S TIEN
Tech. Officer: GRC/K SACKSTEDER
CASE Category: 46 - MECHANICAL ENGR

NCC 3 653 CASE WESTERN RESERVE UNIV 7446
 A STUDY OF THE TIME-DEPENDENT RESPONSE OF CERAMIC MATERIALS
 11/23/1998 - 11/30/2001 FY01: \$107,022 Total: \$305,664
Prin. Invest.: D A GASPARINI
Tech. Officer: GRC/N N NEMETH
CASE Category: 46 - MECHANICAL ENGR

NCC 3 658 CASE WESTERN RESERVE UNIV 7447
 LOW STRETCH DIFFUSION FLAMES LOW STRETCH DIFFUSION FLAMES
 01/12/1999 - 12/08/2002 FY01: \$73,830 Total: \$185,659
Prin. Invest.: J S TIEN
Tech. Officer: GRC/S L OLSON
CASE Category: 49 - ENGINEERING, OTHER

NCC 3 669 CASE WESTERN RESERVE UNIV 7448
 FLAME SPREADING IN PARTIAL GRAVITY FLAME SPREADING IN PARTIAL
 GRAVITY
 02/03/1999 - 01/03/2003 FY01: \$60,317 Total: \$128,756
Prin. Invest.: J S TIEN
Tech. Officer: GRC/K R SACKSTEDER
CASE Category: 49 - ENGINEERING, OTHER

NCC 3 679 CASE WESTERN RESERVE UNIV 7449
 DEVELOPMENT OF ADVANCED SENSORS FOR BANTAM VEHICLE APPLICA-
 TIONS
 02/24/1999 - 01/31/2002 FY01: \$70,000 Total: \$220,000
Prin. Invest.: C LUJ
Tech. Officer: GRC/G W HUNTER
CASE Category: 43 - CHEMICAL ENGR

NCC 3 681 CASE WESTERN RESERVE UNIV 7450
 THERMO-PHYSICAL PROPERTIES OF MOLTEN SEMICONDUCTOR S
 02/24/1999 - 02/17/2002 FY01: \$0 Total: \$5,000
Prin. Invest.: D H MATTHIESEN
Tech. Officer: GRC/A CHAIT
CASE Category: 47 - METAL & MATERIALS ENGR

NCC 3 701 CASE WESTERN RESERVE UNIV 7451
 DENTRITIC GROWTH AND COARSENING PHENOMENA IN SOLID IFICATION
 04/20/1999 - 05/31/2002 FY01: \$118,809 Total: \$309,692
Prin. Invest.: P L TAYLOR
Tech. Officer: GRC/A CHAIT
CASE Category: 47 - METAL & MATERIALS ENGR

NCC 3 714 CASE WESTERN RESERVE UNIV 7452
 RAPID MANUFACTURING MONOLITHIC SILICON NITRIDE THR UST CELLS
 07/12/1999 - 12/25/2001 FY01: \$241,961 Total: \$486,052
Prin. Invest.: J D CRAWLEY, NONE
Tech. Officer: GRC/J LANG
CASE Category: 47 - METAL & MATERIALS ENGR

NCC 3 743 CASE WESTERN RESERVE UNIV 7453
 DEVELOPMENT OF ADVANCED OIL-FREE TURBOMACHINERY DEVELOP-
 MENT OF ADVANCED OIL-FREE TURBOMACHINERY
 11/23/1999 - 06/30/2000 FY01: \$0 Total: \$51,985
Prin. Invest.: J M PRAHL
Tech. Officer: GRC/C DELLACORTE
CASE Category: 46 - MECHANICAL ENGR

NCC 3 766 CASE WESTERN RESERVE UNIV 7454
 LONG TERM DURABILITY OF MATERIALS FOR AEROSPACE AP PICATIONS
 01/24/2000 - 11/30/2001 FY01: \$163,200 Total: \$259,332
Prin. Invest.: I E LOCCI, NONE
Tech. Officer: GRC/M V NATHAL
CASE Category: 47 - METAL & MATERIALS ENGR

NCC 3 772 CASE WESTERN RESERVE UNIV 7455
 THE DEVELOPMENT OF SOLID STATE CO AND CO2 SENSOR F OR FIRE
 PROTECTION APPLICATIONS
 02/11/2000 - 01/23/2002 FY01: \$125,000 Total: \$220,000
Prin. Invest.: C C LIU
Tech. Officer: GRC/G W HUNTER
CASE Category: 43 - CHEMICAL ENGR

NCC 3 823 CASE WESTERN RESERVE UNIV 7456
 GAS EVOLUTION EFFECT ON MASS TRANSFER IN ROTATING ELECTRO-
 CHEMICAL CELLS UNDER MICROGRAVITY CONDITION
 08/17/2000 - 11/30/2003 FY01: \$48,230 Total: \$98,155
Prin. Invest.: Y KAMOTANI
Tech. Officer: GRC/D GREEN
CASE Category: 49 - ENGINEERING, OTHER

NCC 3 830 CASE WESTERN RESERVE UNIV 7457
 ADVANCED COPPER ALLOYS FOR REGENERATIVELY COOLED R OCKET
 ENGINE COMBUSTION CHAMBERLINERS
 12/08/2000 - 11/30/2001 FY01: \$202,512 Total: \$202,512
Prin. Invest.: D L ELLIS
Tech. Officer: GRC/M NATHAL
CASE Category: 47 - METAL & MATERIALS ENGR

NCC 3 838 CASE WESTERN RESERVE UNIV 7458
 SOOT FORMATION IN PURELY CURVED PREMIXED FLAMES & LAMINAR
 FLAME SPEEDS OF SOOT FORMING FLAMES
 01/16/2001 - 11/30/2004 FY01: \$56,500 Total: \$56,500
Prin. Invest.: C SUNG
Tech. Officer: GRC/K R SACKSTEDER
CASE Category: 49 - ENGINEERING, OTHER

NCC 3 850 CASE WESTERN RESERVE UNIV 7459
 NOVEL STRUCTRUAL AND FUNCTONAL CERAMICS
 01/17/2001 - 11/30/2001 FY01: \$389,905 Total: \$389,905
Prin. Invest.: S SAYIR
Tech. Officer: GRC/S C FARMER
CASE Category: 47 - METAL & MATERIALS ENGR

NCC 3 892 CASE WESTERN RESERVE UNIV 7460
 TECHNOLOGIES FOR ACTIVE CLEARANCE CONTROL
 05/22/2001 - 11/30/2001 FY01: \$44,995 Total: \$44,995
Prin. Invest.: S M PHILLIPS
Tech. Officer: GRC/B STEINETZ
CASE Category: 41 - AERONAUTICAL ENGNR

NCC 3 895 CASE WESTERN RESERVE UNIV 7461
 THERMALLY STABLE OHMIC CONTACTS ON 6H-SIC THERMALLY STABLE
 OHMIC CONTACTS ON 6H-SIC
 06/01/2001 - 05/31/2002 FY01: \$59,400 Total: \$59,400
Prin. Invest.: P PIROUZ
Tech. Officer: GRC/R OKOJIE
CASE Category: 13 - PHYSICS

NCC 3 898	CASE WESTERN RESERVE UNIV	7462	NAG 3 2040	CLEVELAND STATE UNIV	7470
CERAMIC CANTED COIL SPRINGS FOR AEROSPACE SEALING APPLICATIONS			FPGA BASED RECONFIGURABLE PACKET SWITCH TEST BED		
07/31/2001 – 10/02/2002	FY01: \$83,111	Total: \$83,111	04/29/1997 – 07/31/2001	FY01: \$0	Total: \$129,907
<i>Prin. Invest.:</i> J D CAWLEY, NONE			<i>Prin. Invest.:</i> P P CHU		
<i>Tech. Officer:</i> GRC/P DUNLAP			<i>Tech. Officer:</i> GRC/R E JONES		
<i>CASE Category:</i> 46 – MECHANICAL ENGR			<i>CASE Category:</i> 45 – ELECTRICAL ENGR		
NCC 8 152	CASE WESTERN RESERVE UNIV	7463	NAG 3 2075	CLEVELAND STATE UNIV	7471
DIFFUSION PROCESSES IN MOLTEN SEMICONDUCTORS			MINORITY ENGINEERING PROGRAM PIPELINE		
06/12/1998 – 03/31/2002	FY01: \$200,000	Total: \$1,769,997	09/17/1997 – 08/31/2002	FY01: \$19,392	Total: \$86,046
<i>Prin. Invest.:</i> D H MATTHIESEN			<i>Prin. Invest.:</i> P CHARITY		
<i>Tech. Officer:</i> MSFC/J BRUNSON			<i>Tech. Officer:</i> GRC/M L BOROWSKI		
<i>CASE Category:</i> 13 – PHYSICS			<i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER		
NGT 3 52328	CASE WESTERN RESERVE UNIV	7464	NAG 3 2232	CLEVELAND STATE UNIV	7472
GRADUATE STUDENT RESEARCHERS PROGRAM			MAPPING THE POSITION DEPENDENCE OF THE LIQUID WATER CONTENT		
06/10/1997 – 05/31/2000	FY01: -\$1,333	Total: \$64,667	02/18/1999 – 12/31/2001	FY01: \$0	Total: \$14,000
<i>Prin. Invest.:</i> K LOPARO			<i>Prin. Invest.:</i> J LOCK		
<i>Tech. Officer:</i> GRC/F J MONTEGANI			<i>Tech. Officer:</i> GRC/C R MERCER		
<i>CASE Category:</i> 49 – ENGINEERING, OTHER			<i>CASE Category:</i> 13 – PHYSICS		
NGT 3 52350	CASE WESTERN RESERVE UNIV	7465	NAG 3 2273	CLEVELAND STATE UNIV	7473
GRADUATE STUDENT RESEARCH PROGRAM GRADUATE STUDENT RESEARCH PROGRAM			THE ECONOMIC IMPACT OF GLENN RESEARCH CENTER THE ECONOMIC IMPACT OF GLENN RESEARCH CENTER		
06/23/1999 – 06/30/2002	FY01: \$22,000	Total: \$66,000	06/23/1999 – 11/30/2000	FY01: \$0	Total: \$57,772
<i>Prin. Invest.:</i> J S TIEN			<i>Prin. Invest.:</i> Z AUSTRIAN		
<i>Tech. Officer:</i> GRC/J J MONTEGANI			<i>Tech. Officer:</i> GRC/R C ALEXANDER		
<i>CASE Category:</i> 47 – METAL & MATERIALS ENGR			<i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER		
NGT 3 52352	CASE WESTERN RESERVE UNIV	7466	NAG 3 2296	CLEVELAND STATE UNIV	7474
GRADUATE STUDENT RESEARCH PROGRAM GRADUATE STUDENT RESEARCH PROGRAM			REAL TIME MONITORING SYSTEM		
06/24/1999 – 08/31/2001	FY01: \$0	Total: \$44,000	09/30/1999 – 05/12/2002	FY01: \$30,434	Total: \$59,450
<i>Prin. Invest.:</i> J R KADAMBI			<i>Prin. Invest.:</i> D M KOCHER		
<i>Tech. Officer:</i> GRC/F J MONTEGANI			<i>Tech. Officer:</i> GRC/D WHITE		
<i>CASE Category:</i> 49 – ENGINEERING, OTHER			<i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER		
NGT 3 52374	CASE WESTERN RESERVE UNIV	7467	NAG 3 2306	CLEVELAND STATE UNIV	7475
GRADUATE STUDENT RESEARCH			STRUCTURAL MODELING OF ENGINE COMPONENTS AND MATERIAL PROCESSES		
06/07/2001 – 06/30/2002	FY01: \$22,000	Total: \$22,000	12/01/1999 – 10/31/2001	FY01: \$0	Total: \$111,880
<i>Prin. Invest.:</i> J R KADAMBI			<i>Prin. Invest.:</i> J HEMANN		
<i>Tech. Officer:</i> GRC/F J MONTEGANI			<i>Tech. Officer:</i> GRC/H KAUTZ		
<i>CASE Category:</i> 46 – MECHANICAL ENGR			<i>CASE Category:</i> 49 – ENGINEERING, OTHER		
NGT 5 50274	CASE WESTERN RESERVE UNIV	7468	NAG 3 2326	CLEVELAND STATE UNIV	7476
A MANTIS-LIKE ROBOT FOR AGILE OPERATION IN EXTREME ENVIRONMENTS/STUDENT: DANIEL KINGSLEY			DEVELOPMENT OF A FAST ANALYSIS TOOL FOR THE INTERNATIONAL SPACE STATION (ISS) USING SOFT COMPUTING		
06/15/2000 – 08/31/2002	FY01: \$22,000	Total: \$44,000	02/04/2000 – 01/31/2002	FY01: \$73,500	Total: \$113,500
<i>Prin. Invest.:</i> R QUINN			<i>Prin. Invest.:</i> P P LIN		
<i>Tech. Officer:</i> GSFC/K BLANDING			<i>Prin. Invest.:</i> NONE		
<i>CASE Category:</i> 46 – MECHANICAL ENGR			<i>Tech. Officer:</i> GRC/K JULES		
			<i>CASE Category:</i> 49 – ENGINEERING, OTHER		
NGT 5 50369	CASE WESTERN RESERVE UNIV	7469	NAG 3 2423	CLEVELAND STATE UNIV	7477
COMBUSTION OF BLACK LIQUOR DEPOSITS			OPTICAL SCATTERING CHARACTERIZATION FOR THE GLENN MICRO-SYSTEMS MICROSCALE PARTICULATE CLASSIFIER		
06/13/2001 – 06/30/2002	FY01: \$22,000	Total: \$22,000	05/12/2000 – 04/15/2002	FY01: \$0	Total: \$10,000
<i>Prin. Invest.:</i> J T' IEN			<i>Prin. Invest.:</i> J A LOCK		
<i>Tech. Officer:</i> GSFC/K BLANDING			<i>Tech. Officer:</i> GRC/P S GREENSBERG		
<i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER			<i>CASE Category:</i> 49 – ENGINEERING, OTHER		

NAG 3 2482 CLEVELAND STATE UNIV 7478
 DEVELOPMENT OF A MULTI-DIMENSIONAL STIRLING ENGINE CODE FOR
 THERMODYNAMICS PERFORMANCE
 08/02/2000 - 07/31/2002 FY01: \$207,453 Total: \$262,453
Prin. Invest.: D IBRAHIM
Tech. Officer: GRC/L THIEMENE
CASE Category: 46 - MECHANICAL ENGR

NAG 3 2490 CLEVELAND STATE UNIV 7479
 PRELIMINARY DEVELOPMENT OF AN ENGINE MANUFACTURING COST
 ESTIMATING MODEL
 09/29/2000 - 11/30/2000 FY01: \$93,500 Total: \$93,500
Prin. Invest.: Y LIU
Tech. Officer: GRC/F TORRES
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2509 CLEVELAND STATE UNIV 7480
 THE INTEGRATION OF LEGACY APPLICATIONS WITH CORBA THE INTEGRA-
 TION OF LEGACY APPLICATIONS WITH CORBA
 11/30/2000 - 11/16/2001 FY01: \$52,997 Total: \$52,997
Prin. Invest.: J SANG
Tech. Officer: GRC/C KIM
CASE Category: 22 - COMPUTER SCIENCE

NAG 3 2514 CLEVELAND STATE UNIV 7481
 STRUCTURAL MODELING OF ENGINE COMPONENTS AND MATERIAL
 PROCESSES
 12/18/2000 - 12/31/2001 FY01: \$153,697 Total: \$153,697
Prin. Invest.: J HEMANN
Tech. Officer: GRC/H E KAUTZ
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 3 2531 CLEVELAND STATE UNIV 7482
 POWER EFFICIENT REFLECTARRAY COMMUNICATIONS SYSTEM MODULA-
 TION
 01/23/2001 - 12/31/2001 FY01: \$33,832 Total: \$33,832
Prin. Invest.: F XIONG
Tech. Officer: GRC/R R ROMANOFSKY
CASE Category: 45 - ELECTRICAL ENGR

NAG 3 2573 CLEVELAND STATE UNIV 7483
 ROTODYNAMIC ANALYSIS AND FEASIBILITY STUDY OF A DISK SPIN
 FACILITY
 03/22/2001 - 12/31/2001 FY01: \$28,000 Total: \$28,000
Prin. Invest.: J T SAWICKI
Tech. Officer: GRC/H KAUTZ
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2607 CLEVELAND STATE UNIV 7484
 HIGH-LEVEL QUANTUM CHEMICAL CALCULATIONS ON PONTENTIAL JET
 FUELS
 06/12/2001 - 03/14/2002 FY01: \$30,000 Total: \$30,000
Prin. Invest.: D W BALL
Tech. Officer: GRC/M J ZEHE
CASE Category: 12 - CHEMISTRY

NAG 3 2619 CLEVELAND STATE UNIV 7485
 ROBUST TIMING SYNCHRONIZATION IN AERONAUTICAL MOBILE COMMU-
 NICATIONS SYSTEMS
 05/23/2001 - 05/20/2002 FY01: \$14,000 Total: \$14,000
Prin. Invest.: F XIONG
Tech. Officer: GSFC/K CHUN
CASE Category: 45 - ELECTRICAL ENGR

NAG 3 2631 CLEVELAND STATE UNIV 7486
 INERTING AIRCRAFT FUEL SYSTEMS USING EXHAUST GASES
 06/13/2001 - 05/31/2002 FY01: \$60,000 Total: \$60,000
Prin. Invest.: D G NEHEMANN
Tech. Officer: GRC/K KUNDU
CASE Category: 12 - CHEMISTRY

NAG 8 1584 CLEVELAND STATE UNIV 7487
 R/S ACOUSTICALLY ASSISTED BIOREACTOR FOR TERRESTRIAL AND
 MICROGRAVITY APPLICATIONS.
 01/14/1999 - 11/30/2002 FY01: \$76,850 Total: \$391,850
Prin. Invest.: J M BELOVICH
Tech. Officer: MSFC/B GUYNES
CASE Category: 61 - PSYCHOLOGY BIOLOGY

NCC 3 444 CLEVELAND STATE UNIV 7488
 COATINGS FOR CERAMIC MATRIX COMPOSITES
 01/15/1996 - 07/17/2001 FY01: \$0 Total: \$561,144
Prin. Invest.: S N TEWARI
Tech. Officer: GRC/L A GREENBAUER-SENG
CASE Category: 47 - METAL & MATERIALS ENGR

NCC 3 445 CLEVELAND STATE UNIV 7489
 MODIFICATION OF ENVIRONMENTAL/THERMAL BARRIER COATINGS FOR
 SILICON-BASED CERAMICS
 01/15/1996 - 07/17/2001 FY01: \$0 Total: \$607,229
Prin. Invest.: S N TEWARI
Tech. Officer: GRC/L A GREENBAUER-SENG
CASE Category: 47 - METAL & MATERIALS ENGR

NCC 3 521 CLEVELAND STATE UNIV 7490
 THE EFFECTS OF MULTIPLE SCATTERING IN PHOTON CORRELATION
 SPECTROSCOPY
 12/26/1996 - 11/30/2001 FY01: \$0 Total: \$294,000
Prin. Invest.: J A LOCK
Tech. Officer: GRC/A CHAIT
CASE Category: 13 - PHYSICS

NCC 3 581 CLEVELAND STATE UNIV 7491
 ULTRASONIC SCANNER CONTROL AND DATA ACQUISITION
 12/09/1997 - 12/31/2001 FY01: \$187,893 Total: \$537,242
Prin. Invest.: J HEMANN
Tech. Officer: GRC/H KAUTZ
CASE Category: 47 - METAL & MATERIALS ENGR

NCC 3 582 CLEVELAND STATE UNIV 7492
 THE DEVELOPMENT OF ENGINEERING TOMOGRAPHY FOR MONOLITHIC
 AND COMPOSITE MATERIALS AND COMPONENTS
 12/09/1997 - 12/31/2001 FY01: \$186,340 Total: \$520,141
Prin. Invest.: J HEMANN
Tech. Officer: GRC/H E KAUTZ
CASE Category: 49 - ENGINEERING, OTHER

NCC 3 595 CLEVELAND STATE UNIV 7493
 SIMULATION AND PERFORMANCE ANALYSIS OF HYBRID SATE LLITE-
 TERRESTRIAL NETWORKS
 01/12/1998 - 02/04/2002 FY01: \$149,547 Total: \$376,038
Prin. Invest.: V K KONANGI
Tech. Officer: GRC/T M WALLETT, GRC/K B BHASIN
CASE Category: 45 - ELECTRICAL ENGR

NCC 3 631 CLEVELAND STATE UNIV 7494
 STUDY OF MAGNETIC DAMPING EFFECTS ON CONVECTION DU RING
 DIRECTIONAL SOLIDIFICATION
 06/26/1998 - 06/07/2000 FY01: \$0 Total: \$87,720
Prin. Invest.: D N TEWARI
Tech. Officer: GRC/H C DE GROH
CASE Category: 47 - METAL & MATERIALS ENGR

NCC 3 647 CLEVELAND STATE UNIV 7495
 THE STUDY OF THE APPLICATION OF MODERN METHODS OF CONTROL
 AND INTERFACE TO SCIENTIFIC EFFORTS
 09/04/1998 - 09/30/2001 FY01: \$78,195 Total: \$246,970
Prin. Invest.: G L KRAMERICH *Prin. Invest.:* NONE
Tech. Officer: GRC/J M MULLINS
CASE Category: 49 - ENGINEERING, OTHER

NCC 3 699 CLEVELAND STATE UNIV 7496
 DEVELOPMENT OF DIGITAL CONTROL TECHNOLOGY FOR POWE R
 MANAGEMENT AND DISTRIBUTION SYSTEMS
 04/02/1999 - 05/14/2002 FY01: \$152,810 Total: \$437,669
Prin. Invest.: Z GAO
Tech. Officer: GRC/J F SOEDER
CASE Category: 45 - ELECTRICAL ENGR

NCC 3 740 CLEVELAND STATE UNIV 7497
 PHYSICAL PROPERTIES AND DURABILITY OF NEW MATERIAL S FOR SPACE
 AND COMMERCIAL APPLICATIONS
 10/21/1999 - 12/02/2002 FY01: \$45,011 Total: \$179,561
Prin. Invest.: P HAMBOURGER
Tech. Officer: GRC/S K RUTLEDGE
CASE Category: 13 - PHYSICS

NCC 3 749 CLEVELAND STATE UNIV 7498
 ADVANCED MATERIALS DEVELOPMENT, EVALUATION, AND MO DELING
 FOR PROPULSION APPLICATIONS
 02/14/2000 - 02/28/2002 FY01: \$125,823 Total: \$215,475
Prin. Invest.: S N TEWARI
Tech. Officer: GRC/M NATHAL
CASE Category: 47 - METAL & MATERIALS ENGR

NCC 3 759 CLEVELAND STATE UNIV 7499
 EPR INVESTIGATIONS OF SILANE POLYMERIZATIONS EPR INVESTIGA-
 TIONS OF SILANE POLYMERIZATIONS
 12/30/1999 - 11/30/2001 FY01: \$113,279 Total: \$198,279
Prin. Invest.: J MASNOVI
Tech. Officer: GRC/S R LEVINE
CASE Category: 43 - CHEMICAL ENGR

NCC 3 761 CLEVELAND STATE UNIV 7500
 DESIGN LIFE METHODOLOGIES AND COMPUTER ALGORITHMS FOR THE
 ANALYSIS OF COMPONENTS FABRIATED FROM CERA
 01/11/2000 - 01/22/2002 FY01: \$65,009 Total: \$129,946
Prin. Invest.: S F DUFFY
Tech. Officer: GRC/J MANDERSCHIED
CASE Category: 46 - MECHANICAL ENGR

NCC 3 764 CLEVELAND STATE UNIV 7501
 SIMULATION AND PERFORMANCE ANALYSIS OF THE AERONAU TICAL
 TELECOMMUNICATION NETWORK
 01/14/2000 - 03/14/2002 FY01: \$74,222 Total: \$142,222
Prin. Invest.: V K KONANGI
Tech. Officer: GRC/R KERCEZEWski
CASE Category: 45 - ELECTRICAL ENGR

NCC 3 817 CLEVELAND STATE UNIV 7502
 NEW SOLID POLYMER ELECTROLYTES FOR IMPROVED LITHIU M
 BATTERIES
 07/24/2000 - 07/31/2001 FY01: \$90,509 Total: \$140,509
Prin. Invest.: D G HEHEMANN
Tech. Officer: GRC/A E HEPP
CASE Category: 12 - CHEMISTRY

NCC 3 818 CLEVELAND STATE UNIV 7503
 STUDY ON DAMPING EFFECTS ON CONVECTION DURING DIRE CTIONAL
 SOLIDIFICATION
 07/24/2000 - 07/09/2001 FY01: \$0 Total: \$24,000
Prin. Invest.: D TEWARI
Tech. Officer: GRC/H DEGROH
CASE Category: 49 - ENGINEERING, OTHER

NCC 3 829 CLEVELAND STATE UNIV 7504
 SOLUTAL REDISTRIBUTION DURING DIRECTIONAL SOLIDIFI CATION
 10/10/2000 - 08/31/2002 FY01: \$45,500 Total: \$45,500
Prin. Invest.: S N TEWARI
Tech. Officer: GRC/H C DE GROH
CASE Category: 49 - ENGINEERING, OTHER

NCC 3 853 CLEVELAND STATE UNIV 7505
 DEVELOPMENT OF HIGH TEMPERATURE LOW THERMAL CONDUCTIVITY
 ENVIRONMENTAL & THERMAL BARRIER COATING
 01/23/2001 - 01/21/2002 FY01: \$145,309 Total: \$145,309
Prin. Invest.: S N TEWARI
Tech. Officer: GRC/L GREENBAUER-SENG
CASE Category: 47 - METAL & MATERIALS ENGR

NCC 3 862 CLEVELAND STATE UNIV 7506
 ENVIRONMENTAL DURABILITY OF MATERIALS FOR SPACE TR ANSPORTA-
 TION
 02/14/2001 - 02/08/2002 FY01: \$134,058 Total: \$134,058
Prin. Invest.: S TEWARI
Tech. Officer: GRC/L A GREENBAUER-SENG
CASE Category: 47 - METAL & MATERIALS ENGR

NCC 3 869 CLEVELAND STATE UNIV 7507
 DYE-SENSITIZED SOLAR CELLS FOR SPACE POWER DYE-SENSITIZED
 SOLAR CELLS FOR SPACE POWER
 02/27/2001 - 02/27/2002 FY01: \$70,000 Total: \$70,000
Prin. Invest.: J D HARRIS
Tech. Officer: GRC/S G BAILEY
CASE Category: 12 - CHEMISTRY

NCC 3 876 CLEVELAND STATE UNIV 7508
 FORMULATION & EVALUATION OF ORGANO-PHOSPHATE SOLUT IONS FOR
 HIGH TEMPERATURE LUBRICATION
 03/14/2001 - 05/20/2002 FY01: \$26,168 Total: \$26,168
Prin. Invest.: J E GATICA
Tech. Officer: GRC/W MORALES
CASE Category: 41 - AERONAUTICAL ENGR

NCC 3 883 CLEVELAND STATE UNIV 7509
 ANALYSIS & CHARACTERIZATION OF ADVANCED MATERIALS FOR AERO-
 SPACE APPLICATIONS
 03/29/2001 - 03/31/2002 FY01: \$156,911 Total: \$156,911
Prin. Invest.: D G NEHEMANN
Tech. Officer: GRC/S G BAILEY
CASE Category: 45 - ELECTRICAL ENGR

NCC 3 908 CLEVELAND STATE UNIV 7510
 INVESTIGATION OF THE UTILIZATION OF MODERN INDUSTRIAL METHODS,
 PROCESSES, ERGONOMICS, AND THE INTER
 08/13/2001 - 09/30/2002 FY01: \$80,000 Total: \$80,000
Prin. Invest.: G L KRAMERICH
Tech. Officer: GRC/J MULLINS
CASE Category: 49 - ENGINEERING, OTHER

NCC 3 909 CLEVELAND STATE UNIV 7511
 REFLECTIVITY FREQUENCY RESPONSE OF IN-FIBER BRAGG GRATINGS
 08/16/2001 - 07/31/2002 FY01: \$5,000 Total: \$5,000
Prin. Invest.: J A LOCK
Tech. Officer: GRC/G ADAMOVSKY
CASE Category: 13 - PHYSICS

NCC 3 914 CLEVELAND STATE UNIV 7512
 THERMAL TESTING OF FIBER OPTIC BRAGG GRATINGS UNDER DYNAMIC
 EXCITATION
 09/18/2001 - 12/30/2001 FY01: \$8,000 Total: \$8,000
Prin. Invest.: D FLANAGAN
Tech. Officer: GRC/D ADAMOVSKY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 10233 COLLEGE OF WOOSTER 7513
 MULTIWAVELENGTH OBSERVATIONS OF HERCULES X-1; EUVE MINI-
 GRANT, #97-MINIGRANT-002
 01/25/2001 - 01/31/2002 FY01: \$9,639 Total: \$9,639
Prin. Invest.: B BOROSON
Tech. Officer: GSFC/K HARTNETT
CASE Category: 11 - ASTRONOMY

NAG 5 10396 COLLEGE OF WOOSTER 7514
 WIND IONIZATION IN HIGH MASS X-RAY BINARIES FUSE
 02/12/2001 - 02/14/2002 FY01: \$36,200 Total: \$36,200
Prin. Invest.: B BOROSON
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 8 1433 COLLEGE OF WOOSTER 7515
 TURBIDITY AND UNIVERSALITY AROUND A LIQUID-LIQUID CRITICAL POINT
 02/06/1998 - 01/31/2003 FY01: \$47,500 Total: \$149,500
Prin. Invest.: D T JACOBS
Tech. Officer: MSFC/J W POE
CASE Category: 13 - PHYSICS

NAG 3 1778 CUYAHOGA COMMUNITY COLLEGE 7516
 MENTOR INTERSHIP PARTNERSHIP PROGRAM
 08/16/1995 - 09/30/2001 FY01: \$1,501 Total: \$99,822
Prin. Invest.: R L MOSS
Tech. Officer: GRC/F H YARRIS
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2370 CUYAHOGA COMMUNITY COLLEGE 7517
 SEMAA AND FIRST SCHOLARSHIP SUPPORT PROGRAM SEMAA AND FIRST
 SCHOLARSHIP SUPPORT PROGRAM
 12/22/1999 - 03/31/2001 FY01: \$0 Total: \$14,000
Prin. Invest.: S CHAND
Tech. Officer: GRC/R LAWRENCE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 3 2496 CUYAHOGA COMMUNITY COLLEGE 7518
 CUYAHOGA COMMUNITY COLLEGE SCHOLARSHIP PROGRAM CUYAHOGA
 COMMUNITY COLLEGE SCHOLARSHIP PROGRAM
 10/27/2000 - 06/11/2001 FY01: \$11,000 Total: \$11,000
Prin. Invest.: T L BUTLER
Tech. Officer: GRC/R F LAWRENCE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 3 98099 CUYAHOGA COMMUNITY COLLEGE 7519
 REPLICA OF SCIENCE ENGRG MATH. & AEROSPACE ACADEMY (SEMAA) IN
 CONNECTION W/NAS3-97168 (MAEL)
 06/30/1998 - 09/30/2001 FY01: \$3,383,297 Total: \$9,583,920
Prin. Invest.: L L DARLING
Tech. Officer: GRC/R L BONDURANT
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 4341 DENISON UNIV 7520
 LAB SPECTROSCOPY CH4 AND H2
 04/23/1997 - 11/30/2001 FY01: \$0 Total: \$112,808
Prin. Invest.: D E MICKELSON
Tech. Officer: GSFC/R BEEBE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 3 2564 JOHN CARROLL UNIV 7521
 LIGHTING INNOVATIONS INST SUPPORT OF THE MEMS INCANDESCENT
 LIGHT SOURCE PROJECT
 03/12/2001 - 01/31/2002 FY01: \$45,000 Total: \$45,000
Prin. Invest.: R L HANSLER
Tech. Officer: GRC/S WRBANEK
CASE Category: 13 - PHYSICS

NAG 2 1497 KENT STATE UNIV 7522
 THE EFFECTS OF MICROGRAVITY ON THE ECOLOGY OF BIOFILM
 BACTERIA
 07/05/2001 - 06/30/2002 FY01: \$90,664 Total: \$90,664
Prin. Invest.: L G LEFF
Tech. Officer: ARC/M M AVERNER
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 3 2416 KENT STATE UNIV 7523
 LANDSCAPE PARAMETERIZATION AND CLASSIFICATION FOR VISUAL-
 IZATION OF LANDSAT ETM - OHIOVIEW
 05/09/2000 - 07/20/2001 FY01: \$0 Total: \$105,000
Prin. Invest.: D MUNRO-STASIUK
Tech. Officer: GRC/T SCOTT
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 3 2539 **KENT STATE UNIV** **7524**
LIQUID CRYSTAL BASED BEAM STEERING DEVICE AND OPTICAL TELESCOPES
02/08/2001 – 01/15/2004 FY01: \$211,293 Total: \$211,293
Prin. Invest.: P BROS
Tech. Officer: GRC/J POUCH
CASE Category: 13 – PHYSICS

NAG 5 11266 **KENT STATE UNIV** **7525**
HYDRODYNAMIC INSTABILITIES AND EDDY-MEAN FLOW INTERACTION IN THE SOUTHERN OCEAN
09/10/2001 – 07/14/2003 FY01: \$69,108 Total: \$69,108
Prin. Invest.: D L WITTER
Tech. Officer: GSFC/M WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 3 563 **KENT STATE UNIV** **7526**
THIN FILM BATTERIES
06/17/1997 – 01/31/2001 FY01: \$0 Total: \$147,000
Prin. Invest.: C VARGAS ABURTO, R URIBE
Tech. Officer: GRC/A F HEPP
CASE Category: 12 – CHEMISTRY

NCC 3 721 **KENT STATE UNIV** **7527**
E-BEAM SENSITIVE POLYIMIDES E-BEAM SENSITIVE POLYIMIDES
07/02/1999 – 09/21/2002 FY01: \$117,556 Total: \$242,654
Prin. Invest.: R J TWIEG
Tech. Officer: GRC/M A MEADOR
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 3 734 **KENT STATE UNIV** **7528**
THIN FILM TECHNOLOGY FOR SPACE POWER THIN FILM TECHNOLOGY FOR SPACE POWER
09/23/1999 – 02/28/2001 FY01: \$0 Total: \$99,994
Prin. Invest.: D CHOWDHURY
Tech. Officer: GRC/A HEPP
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NGT 3 52309 **KENT STATE UNIV** **7529**
GRADUATE STUDENT RESEARCHERS PROGRAM – HIGH PERFORMANCE COMPUTING AND COMMUNICATION (HPPC)
07/25/1995 – 10/01/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: S RYAN
Tech. Officer: GRC/L SHAW
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 2 1017 **MIAMI UNIV** **7530**
GRAVIPERCEPTION IN STARCH-DEFICIENT PLANTS IN BIOTECHNOLOGY
10/31/1995 – 12/31/2001 FY01: \$0 Total: \$297,282
Prin. Invest.: J Z KISS
Tech. Officer: ARC/C M WINGET, ARC/G C JAHNS
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 3 2436 **MIAMI UNIV** **7531**
BUILDING AND ENHANCING AN OHIOVIEW GEOSPATIAL DIGITAL LIBRARY FOR K-12, HIGHER EDUCATION AND THE GENERAL PUBLIC
05/22/2000 – 05/15/2001 FY01: \$0 Total: \$105,000
Prin. Invest.: J MILLARD
Tech. Officer: GRC/T M SCOTT
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 2 1200 **MIAMI UNIV** **7532**
ANALYSIS OF A NOVEL SENSORY MECHANISM IN ROOT PHOTOTROPISM
09/05/2000 – 04/30/2002 FY01: \$141,559 Total: \$161,559
Prin. Invest.: J Z KISS
Tech. Officer: ARC/D REISS-BUBENHEIM, ARC/R W BERTHLOD
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 5 7789 **NORTHEASTERN OHIO UNIV COL OF MEDICINE** **7533**
THE EFFECT OF HYPERGRAVITY ON BONE CELL CULTURES
11/16/1998 – 07/31/2002 FY01: \$0 Total: \$374,743
Prin. Invest.: W J LANDIS
Tech. Officer: GSFC/M M AVERNER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 3 2544 **OHIO NORTHERN UNIV** **7534**
A FUZZY CONTROLLER REMOTE POWER SWITCH
04/19/2001 – 07/08/2001 FY01: \$2,500 Total: \$2,500
Prin. Invest.: F L GRISMORE
Tech. Officer: GRC/R BUTTON
CASE Category: 45 – ELECTRICAL ENGR

NAG 2 1190 **OHIO STATE UNIV** **7535**
THE REGULATION OF GROWTH IN THE DISTAL ELONGATION ZONE OF MAIZE ROOTS
03/20/1998 – 04/30/2001 FY01: \$3,082 Total: \$264,202
Prin. Invest.: M L EVANS, H ISHIKAWA
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NAG 2 1411 **OHIO STATE UNIV** **7536**
ANALYSIS OF THE INTERACTION OF ENVIRONMENTAL SIGNAL TRANSDUCTION PATHWAYS USING TRANSDUCTION
06/21/2000 – 06/14/2002 FY01: \$170,087 Total: \$252,755
Prin. Invest.: M L EVANS
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 3 1979 **OHIO STATE UNIV** **7537**
PLANETARY GEAR DYNAMICS & VIBRATION ISOLATION IN ROTORCRAFT TRANSMISSIONS
10/24/1996 – 02/28/2001 FY01: \$0 Total: \$149,438
Prin. Invest.: R G PARKER
Tech. Officer: GRC/T L KANTZ
CASE Category: 41 – AERONAUTICAL ENGR

NAG 3 2084 **OHIO STATE UNIV** **7538**
INTELLIGENT FAULT TOLERANT ENGINE CONTROL INTELLIGENT FAULT TOLERANT ENGINE CONTROL
10/30/1997 – 10/31/2000 FY01: \$0 Total: \$298,161
Prin. Invest.: K M PASSINO
Tech. Officer: GRC/T H GUO, GRC/J LITT
CASE Category: 41 – AERONAUTICAL ENGR

NAG 3 2138 **OHIO STATE UNIV** **7539**
ULTRASOUND THERMAL FIELD IMAGING OF OPAQUE FLUIDS ULTRASOUND THERMAL FIELD IMAGING OF OPAQUE FLUIDS
03/06/1998 – 12/31/2002 FY01: \$81,700 Total: \$332,700
Prin. Invest.: C D ANDERHECK
Tech. Officer: GRC/D W GRIFFIN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 3 2157 **OHIO STATE UNIV** **7540**
 UNSTEADY EFFECTS (INCLUDING FILM COOLING) ON HIGH PRESSURE
 TUBINESS: AN ALALYTICAL AND EXPERIMENTAL
 04/22/1998 - 09/30/2000 FY01: \$0 Total: \$110,843
Prin. Invest.: M G DUNN, R S ABHARI
Tech. Officer: GRC/K C CIVISKAS
CASE Category: 46 - MECHANICAL ENGR

NAG 3 2202 **OHIO STATE UNIV** **7541**
 MAGNETIC NOZZLE STUDIES FOR ADVANCED ROCKET PROPULSION
 09/25/1998 - 04/30/2001 FY01: \$0 Total: \$50,000
Prin. Invest.: P J TURCHI
Tech. Officer: GRC/C H WILLIAMS
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 3 2215 **OHIO STATE UNIV** **7542**
 DEVELOPMENT OF HIGH PERFORMANCE III-V SPACE PHOTOVOLTAICS ON
 SI-BASED SUBSTRATES
 12/24/1998 - 08/01/2001 FY01: \$0 Total: \$77,995
Prin. Invest.: D A RINGEL
Tech. Officer: GRC/D M WILT
CASE Category: 45 - ELECTRICAL ENGR

NAG 3 2233 **OHIO STATE UNIV** **7543**
 CHARACTERIZATION OF COMPOSITES RESPONSE AT HIGH RATES OF
 DEFORMATION
 02/19/1999 - 11/12/2000 FY01: \$0 Total: \$45,000
Prin. Invest.: A GILAT
Tech. Officer: GRC/G D ROBERTS
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 3 2316 **OHIO STATE UNIV** **7544**
 MAGNETIC NOZZLE STUDIES FOR ADVANCED ROCKET PROPULSION
 01/07/2000 - 01/31/2002 FY01: \$0 Total: \$129,998
Prin. Invest.: P J TURCHI
Tech. Officer: GRC/C H WILLIAMS
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2339 **OHIO STATE UNIV** **7545**
 COMPUTATIONAL NONEQUILIBRIUM PLASMA DYNAMICS COMPUTATIONAL
 NONEQUILIBRIUM PLASMA DYNAMICS
 02/23/2000 - 06/30/2002 FY01: \$20,000 Total: \$80,000
Prin. Invest.: I ADAMOVICH
Tech. Officer: GRC/S J SCHNEIDER
CASE Category: 46 - MECHANICAL ENGR

NAG 3 2410 **OHIO STATE UNIV** **7546**
 DEMONSTRATING THE VALUE OF SATELLITE INFORMATION FOR
 DEVELOPMENT AND PLANNING IN APPALACHIAN OHIO -
 05/11/2000 - 05/31/2001 FY01: \$0 Total: \$105,000
Prin. Invest.: J K KLEIN
Tech. Officer: GRC/T M SCOTT
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 3 2412 **OHIO STATE UNIV** **7547**
 OHIOVIEW WORK (2 PROPOSALS) DESIGN OF A USER FRIENDLY DATA
 MINING APPROACH FOR GEO-REFERENCED IMAGE
 05/04/2000 - 09/30/2001 FY01: \$0 Total: \$230,000
Prin. Invest.: D L MORRISON
Tech. Officer: GRC/T M SCOTT
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 3 2428 **OHIO STATE UNIV** **7548**
 OHIO VIEW PRODUCT DEFINITION WORKSHOPS OHIO VIEW PRODUCT
 DEFINITION WORKSHOPS
 05/31/2000 - 07/30/2001 FY01: \$0 Total: \$20,000
Prin. Invest.: S DAVIS
Tech. Officer: GRC/T M SCOTT
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 3 2438 **OHIO STATE UNIV** **7549**
 PLASMA THRUSTERS RESEARCH (PARTS I AND III) PLASMA THRUSTERS
 RESEARCH (PARTS I AND III)
 05/19/2000 - 05/18/2002 FY01: \$0 Total: \$89,999
Prin. Invest.: D Y YORK
Tech. Officer: GRC/E J PENCIL
CASE Category: 13 - PHYSICS

NAG 3 2522 **OHIO STATE UNIV** **7550**
 CHARACTERIZATION OF COMPOSITE RESPONSE AT HIGH RATES OF
 LOADING
 01/09/2001 - 11/30/2001 FY01: \$45,070 Total: \$45,070
Prin. Invest.: GILAT
Tech. Officer: GRC/R K GOLDBERG
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 3 2549 **OHIO STATE UNIV** **7551**
 THERMALLY STABLE OHMIC CONTRACTS ON 4H & 6H-SiC MICRODEVICES
 FOR HIGH TEMPERATURE APPLICATION
 02/26/2001 - 01/06/2002 FY01: \$40,477 Total: \$40,477
Prin. Invest.: L BRILLSON
Tech. Officer: GRC/R S OKOJIE
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 2996 **OHIO STATE UNIV** **7552**
 EXTRACTION AND INTERPRETATION OF POLAR LITHOSPHERIC ANOMALIES
 FROM COMBINED OERSTED AND MAGSAT DATA
 07/10/1995 - 06/30/2000 FY01: -\$64 Total: \$174,912
Prin. Invest.: R VON FRESE
Tech. Officer: GSFC/P TAYLOR
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 3525 **OHIO STATE UNIV** **7553**
 QUASAR ABSORPTION IN THE UV: PROBING THE INTERGALA
 11/13/1996 - 09/14/2002 FY01: \$0 Total: \$552,600
Prin. Invest.: D H WEINBERG
Tech. Officer: GSFC/R K OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 3983 **OHIO STATE UNIV** **7554**
 MILLIMETER AND SUBMILLIMETER SPECTROSCOPY OF MOLECULAR
 IMPORTANCE
 03/03/1997 - 12/31/2001 FY01: \$130,677 Total: \$622,013
Prin. Invest.: F C DEELUCIA
Tech. Officer: GSFC/M J KURYLO
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 4250 **OHIO STATE UNIV** **7555**
 SAR-BASED STRUCTURAL MAPPING OF THE TRANSANTARCTIC
 03/24/1997 - 03/31/2001 FY01: \$0 Total: \$165,420
Prin. Invest.: T J WILSON
Tech. Officer: GSFC/S H GOGINENI
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 6001 **OHIO STATE UNIV** **7556**
 SATELLITE AND MODEL ANALYSIS OF THE ATMOSPHERIC MOI LATITUDES
 09/10/1997 - 07/31/2001 FY01: \$0 Total: \$368,150
Prin. Invest.: D BROMWICH
Tech. Officer: HQ/S GOGINENI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6700 **OHIO STATE UNIV** **7557**
 GFO-1 GEOPHYSICAL DATA RECORD AND ORBIT VERIFICATION FOR
 GLOBAL CHANGES STUDIES
 02/03/1998 - 11/30/2000 FY01: \$0 Total: \$284,175
Prin. Invest.: C K SHUM
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6817 **OHIO STATE UNIV** **7558**
 SPATIAL AND TEMPORAL VARIABILITY OF NET ANNUAL ACCUMULATION
 AND CLIMATE IN GREENLAND
 01/07/1998 - 01/31/2001 FY01: \$0 Total: \$305,113
Prin. Invest.: E S MOSLEY-THOMPSON
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6818 **OHIO STATE UNIV** **7559**
 DETERMINING GREENLAND ICESHEET ACCUMULATION RATES FROM
 RADAR REMOTE SENSING
 01/07/1998 - 12/31/2000 FY01: \$0 Total: \$265,722
Prin. Invest.: K C JEZEK
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6838 **OHIO STATE UNIV** **7560**
 SURFACE GPS MEASUREMENTS FOR ICE SHEET MASS BALANCE AND
 FIDUCIAL OF CONTROL ALTIMETRY
 01/08/1998 - 06/30/2000 FY01: -\$40,742 Total: \$79,908
Prin. Invest.: G S HAMILTON
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6908 **OHIO STATE UNIV** **7561**
 ATOMIC DATABASE FOR ASTROPHYSICS FROM THE IRON PROJECT
 01/23/1998 - 01/31/2001 FY01: \$0 Total: \$138,000
Prin. Invest.: A PRADHAN
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 7116 **OHIO STATE UNIV** **7562**
 STAR FORMATION AND THE INTERSTELLAR MEDIUM IN SO GALAXIES
 USING ROSAT POINTED OBSERVATIONS
 04/15/1998 - 07/14/2001 FY01: -\$7,753 Total: \$810
Prin. Invest.: P ESKRIDGE
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 7150 **OHIO STATE UNIV** **7563**
 STANDARD & NONSTANDARD STELLAR MODELS: IMPLICATIONS FOR
 CLUSTER AGES AND LATE EVOLUTIONARY STAGES
 04/02/1998 - 03/14/2002 FY01: \$0 Total: \$300,142
Prin. Invest.: M H PINSONNEAULT
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 7252 **OHIO STATE UNIV** **7564**
 SUBMILLIMETER LABORATORY INVESTIGATIONS: SPECTROSCOPY &
 COLLISIONS
 05/07/1998 - 04/30/2002 FY01: \$0 Total: \$150,360
Prin. Invest.: E HERBST
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 - ASTRONOMY

NAG 5 7284 **OHIO STATE UNIV** **7565**
 VERIFICATION AND IMPROVEMENT OF ERS-1/2 ALTIMETER GEOPHYSICAL
 DATA RECORDERS FOR GLOBAL CHANGES
 04/22/1998 - 06/30/2001 FY01: \$0 Total: \$132,378
Prin. Invest.: C K SHUM
Tech. Officer: GSFC/E J LINDSTROM
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7286 **OHIO STATE UNIV** **7566**
 SHIFTING BOUNDARIES OF THE ANTARCTIC ICE SHEET
 10/19/1998 - 10/31/2002 FY01: \$95,723 Total: \$278,474
Prin. Invest.: K C JEZEK
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7574 **OHIO STATE UNIV** **7567**
 FUNDING FOR GRAVITY & TIME VARYING GRAVITY FIELD RECOVERY
 (SENH98-0144)
 08/04/1998 - 07/31/2002 FY01: \$50,000 Total: \$300,000
Prin. Invest.: C K SHUM
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 7589 **OHIO STATE UNIV** **7568**
 SEARCHING FOR EXTRA-SOLAR SYSTEM PLANETS USING MULTICOLOR
 MICROLENSING OBSERVATIONS
 06/30/1998 - 03/31/2001 FY01: \$0 Total: \$142,400
Prin. Invest.: D L DEPOY
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 7685 **OHIO STATE UNIV** **7569**
 EDUCATIONAL OUTREACH FOR THE LANDSAT-7 MISSION SCIENCE
 OFFICE
 09/11/1998 - 12/31/2001 FY01: \$0 Total: \$77,425
Prin. Invest.: C MERRY
Tech. Officer: GSFC/D L WILLIAMS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7750 **OHIO STATE UNIV** **7570**
 MODELING AND OBSERVATIONAL STUDY OF THE GLOBAL ATMOSPHERIC
 IMPACTS OF ANTARCTIC SEA ICE ANOMALIES
 10/20/1998 - 12/31/2002 FY01: \$84,049 Total: \$245,536
Prin. Invest.: D H BROMWICH
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7848 **OHIO STATE UNIV** **7571**
 THE GLACIER DYNAMICS AND MASS FLUX OF ANTARCTIC ICE STREAMS
 FROM RADARSAT INSAR
 11/23/1998 - 12/31/2002 FY01: \$45,400 Total: \$130,318
Prin. Invest.: R R FORSTER
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7903 **OHIO STATE UNIV** **7572**
 RADIATIVE AND COLLISIONAL ATOMIC DATA FOR UV AND OPTICAL
 ASTRONOMY
 12/10/1998 - 12/31/2001 FY01: \$57,000 Total: \$157,868
Prin. Invest.: D K PRADHAN
Tech. Officer: GSFC/H HASAN
CASE Category: 11 - ASTRONOMY

NAG 5 8313 **OHIO STATE UNIV** **7573**
 SUPPORT OF GRAVITATIONAL MICROLENSING FOLLOW-UP OBSERVATIONS
 BY THE PLANET COLLABORATION
 03/23/1999 - 02/28/2001 FY01: \$0 Total: \$125,000
Prin. Invest.: D L DEPOY
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8397 **OHIO STATE UNIV** **7574**
 PROBING THE PHYSICS OF VARIABLE ACTIVE GALACTIC NUCLEI
 04/16/1999 - 04/30/2002 FY01: \$87,400 Total: \$248,500
Prin. Invest.: B M PETERSON
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8423 **OHIO STATE UNIV** **7575**
 ATOMIC PROCESSES IN X-RAY ASTROPHYSICS (ATP 98)
 04/15/1999 - 04/14/2002 FY01: \$67,000 Total: \$189,346
Prin. Invest.: A K PRADHAN
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8455 **OHIO STATE UNIV** **7576**
 BAYESIAN HIERARCHICAL AIR-SEA INTERACTION MODELING : DEVELOP-
 MENT AND APPLICATION TO THE LABR
 04/12/1999 - 05/31/2002 FY01: \$17,344 Total: \$49,620
Prin. Invest.: K N BERLINER *Prin. Invest.:* NONE
Tech. Officer: GSFC/E LIDSTROM
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8608 **OHIO STATE UNIV** **7577**
 RADARSAT: THE ANTARCTIC MAPPING PROJECT
 06/10/1999 - 06/30/2001 FY01: \$0 Total: \$432,220
Prin. Invest.: K C JEZEK
Tech. Officer: GSFC/E LIDSTROM
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8632 **OHIO STATE UNIV** **7578**
 MODELING GREENLAND OUTLET GLACIERS
 06/28/1999 - 06/30/2001 FY01: \$0 Total: \$70,761
Prin. Invest.: C DER VEEN
Tech. Officer: GSFC/E LIDSTROM
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8913 **OHIO STATE UNIV** **7579**
 ABSORBING OUTFLOWS IN AGN PI TRANSFER FROM SAO
 06/22/2000 - 09/30/2001 FY01: \$125,000 Total: \$217,314
Prin. Invest.: S MATHUR
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 21 - MATHEMATICS

NAG 5 9270 **OHIO STATE UNIV** **7580**
 UNDERSTANDING BROAD ABSORPTION LINE QUASARS WITH ASCA
 OBSERVATIONS (ADP - 99)
 05/30/2000 - 05/31/2001 FY01: \$0 Total: \$20,000
Prin. Invest.: S MATHUR
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9335 **OHIO STATE UNIV** **7581**
 A GEOPHYSICAL APPROACH TO STUDY THE ROLE OF ICE SHEET MASS
 BALANCE IN GLOBAL SEA LEVEL CHANGE
 03/30/2000 - 04/30/2002 FY01: \$177,872 Total: \$297,461
Prin. Invest.: C K SHUM
Tech. Officer: GSFC/K PARTINGTON
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9518 **OHIO STATE UNIV** **7582**
 REGIONAL SCALE METEOROLOGICAL ANALYSIS & PREDICTION USING GPS
 OCCULTATION & EOS DATA
 05/10/2000 - 04/30/2002 FY01: \$258,542 Total: \$432,015
Prin. Invest.: D BROMWICH
Tech. Officer: GSFC/R KAKAR
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9538 **OHIO STATE UNIV** **7583**
 RADARSAT ANTARCTIC MAPPING PROJECT: ANTARCTIC IMAGING
 CAMPAIGN 2
 05/23/2000 - 05/31/2002 FY01: \$877,912 Total: \$1,395,371
Prin. Invest.: K JEZEK
Tech. Officer: GSFC/J DODGE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9596 **OHIO STATE UNIV** **7584**
 A REGIONAL INTEGRATED MONITORING SYSTEM FOR THE HYDROLOGY
 OF THE PAN-ARCTIC LAND MASS
 05/11/2000 - 04/30/2002 FY01: \$41,910 Total: \$68,336
Prin. Invest.: D BROMWICH
Tech. Officer: GSFC/P HOUSER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9883 **OHIO STATE UNIV** **7585**
 LITHOSPHERIC ANALYSIS OF SATELLITE MAGNETOMETER OBSERVATION
 08/24/2000 - 08/31/2002 FY01: \$0 Total: \$25,000
Prin. Invest.: R R VON FRESE
Tech. Officer: GSFC/P TAYLOR
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 9936 **OHIO STATE UNIV** **7586**
 LIFTING THE SHROUD AROUND BROAD ABSORPTION LINE QUASARS WITH
 XMM
 09/06/2000 - 09/14/2002 FY01: \$16,300 Total: \$37,300
Prin. Invest.: S MATHUR
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 9937 **OHIO STATE UNIV** **7587**
 X-RAY SPECTRA OF Z>4 QUASARS
 09/06/2000 - 09/14/2002 FY01: \$14,000 Total: \$30,000
Prin. Invest.: S MATHUR
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10112 **OHIO STATE UNIV** **7588**
 MAPPING ANTARCTIC ICE SHEET MARGINS AND SNOW MELT ZONES OVER
 DECADEAL TIME SCALES FOR UNDERSTANDING
 11/21/2000 – 11/14/2001 FY01: \$88,537 Total: \$88,537
Prin. Invest.: K JEZEK
Tech. Officer: GSFC/K PARTINGTON
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10160 **OHIO STATE UNIV** **7589**
 SATELLITE AND MODEL ANALYSIS OF THE ATMOSPHERIC MOISTURE
 BUDGET IN HIGH LATITUDES
 12/20/2000 – 12/31/2001 FY01: \$78,767 Total: \$78,767
Prin. Invest.: D BROMWICH
Tech. Officer: GSFC/W ABDALATI
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10199 **OHIO STATE UNIV** **7590**
 AIRBORNE GEOPHYSICS AND REMOTE SENSING APPLIED TO STUDY
 GREENLAND ICE DYNAMICS
 12/21/2000 – 12/31/2001 FY01: \$63,604 Total: \$63,604
Prin. Invest.: B CSATHO
Tech. Officer: GSFC/W ABDALATI
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10207 **OHIO STATE UNIV** **7591**
 SUBMILLIMETER LABORATORY INVESTIGATIONS: SPECTROS COPY &
 COLLISIONS
 01/03/2001 – 12/31/2001 FY01: \$80,000 Total: \$80,000
Prin. Invest.: E HERBST
Tech. Officer: GSFC/G STRINGFELLO
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10266 **OHIO STATE UNIV** **7592**
 SPATIAL AND TEMPORAL VARIABILITY OF GREENLAND ACCUMULATION
 AND CLIMATE FROM THE PARCA CORES
 01/09/2001 – 12/31/2001 FY01: \$70,217 Total: \$70,217
Prin. Invest.: E MOSLEY-THOMPSON
Tech. Officer: GSFC/W ABDALATI
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10275 **OHIO STATE UNIV** **7593**
 DETERMINING ICE SHEET ACCUMULATION RATES FROM RADAR REMOTE
 SENSING
 01/12/2001 – 01/14/2002 FY01: \$54,903 Total: \$54,903
Prin. Invest.: K JEZEK
Tech. Officer: GSFC/W ABDALATI
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10320 **OHIO STATE UNIV** **7594**
 FUV SPECTROSCOPY OF NARROW LINE SEYFERT 1 GALAXIES FUSE 2000
 01/30/2001 – 01/31/2002 FY01: \$83,900 Total: \$83,900
Prin. Invest.: S MATHUR
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 – ASTRONOMY

NAG 5 10619 **OHIO STATE UNIV** **7595**
 NEAR REAL-TIME GPS/LEO PRECISION ORBIT DETERMINATION FOR
 OPERATIONAL WEATHER FORECASTING WITH GPS
 03/19/2001 – 03/31/2002 FY01: \$117,889 Total: \$117,889
Prin. Invest.: D BRZEZINSKA
Tech. Officer: GSFC/M WEI
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10678 **OHIO STATE UNIV** **7596**
 SEARCHING FOR EXTRA-SOLAR SYSTEM PLANETS USING GRAVITATIONAL
 MICROLENSING
 04/24/2001 – 04/30/2002 FY01: \$45,000 Total: \$45,000
Prin. Invest.: D DEPOY
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 10978 **OHIO STATE UNIV** **7597**
 MODELLING GREENLAND OUTLET GLACIERS
 05/29/2001 – 05/31/2002 FY01: \$41,805 Total: \$41,805
Prin. Invest.: C V DER VEEN
Tech. Officer: GSFC/W ABDALATI
CASE Category: 33 – OCEANOGRAPHY

NAG 8 1267 **OHIO STATE UNIV** **7598**
 REVERSE MICELLE BASED SYNTHESIS OF MICROPOROUS MATERIALS IN
 MICROGRAVITY
 05/23/1996 – 05/31/2000 FY01: \$0 Total: \$332,000
Prin. Invest.: P K DUTTA, R ANSARI, C T KRESGE
Tech. Officer: MSFC/P DOTY, MSFC/R W ALLEN
CASE Category: 13 – PHYSICS

NAG 8 1441 **OHIO STATE UNIV** **7599**
 GRAVITATIONAL EFFECTS IN BOSE-EINSTEIN CONDENSATE OF ATOMIC
 GASES
 03/06/1998 – 01/31/2003 FY01: \$71,250 Total: \$213,250
Prin. Invest.: T HO
Tech. Officer: MSFC/D HUBBARD
CASE Category: 13 – PHYSICS

NAG 8 1470 **OHIO STATE UNIV** **7600**
 R/S INTERDIFFUSION IN THE PRESENCE OF FREE CONVECTION
 03/26/1998 – 01/31/2002 FY01: \$66,500 Total: \$240,833
Prin. Invest.: P K GUPTA
Tech. Officer: MSFC/C TALLEY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1670 **OHIO STATE UNIV** **7601**
 FUNDAMENTAL STUDIES OF CRYSTAL GROWTH OF MICROPOROUS
 MATERIALS
 06/05/2000 – 11/30/2003 FY01: \$138,700 Total: \$215,917
Prin. Invest.: P K DUTTA
Tech. Officer: MSFC/P DOTY
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 8 1765 **OHIO STATE UNIV** **7602**
 QUANTUM GASES IN NOVEL ENVIRONMENTS: OPTICAL LATTICES AND
 RAPIDLY ROTATING POTENTIALS
 05/01/2001 – 04/30/2004 FY01: \$25,000 Total: \$25,000
Prin. Invest.: T L HO
Tech. Officer: MSFC/D HUBBARD
CASE Category: 13 – PHYSICS

NAG 9 1005 **OHIO STATE UNIV** **7603**
 ORIENTATION FOR INTERVENTION: SUPPORTING MISSION AWARENESS IN
 SPACE OPERATIONS
 05/06/1998 – 06/30/2002 FY01: \$32,292 Total: \$242,292
Prin. Invest.: D D WOODS
Tech. Officer: JSC/B J WOOLFORD
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG10 263 **OHIO STATE UNIV** **7604**
 DEVELOPMENT OF GRAVITY SENSITIVE PLANT CELLS CERATODON IN
 MICROGRAVITY
 07/14/1999 - 11/30/2001 FY01: \$138,359 Total: \$325,354
Prin. Invest.: F SACK
Tech. Officer: KSC/G ETHERIDGE
CASE Category: 55 - AGRICULTURE

NAG13 00039 **OHIO STATE UNIV** **7605**
 HIERARCHICAL SEGMENTATION AND ATTRIBUTION OF HIGH RESOLUTION
 AERIAL IMAGES
 05/19/2000 - 09/30/2001 FY01: \$0 Total: \$200,000
Prin. Invest.: K BOYER
Tech. Officer: SSC/B DAVIS
CASE Category: 32 - GEOLOGICAL SCIENCE

NAS 3 97030 **OHIO STATE UNIV** **7606**
 NRA-ULTRASONIC CHARACTERIZATION OF FATIGUE MICRO DA MAGE
 11/08/1996 - 09/30/1999 FY01: \$0 Total: \$110,977
Prin. Invest.: S ROKHLIN, G MAJOR, D WILLIARD
Tech. Officer: GRC/D J ROTH
CASE Category: 47 - METAL & MATERIALS ENGR

NCA 3 206 **OHIO STATE UNIV** **7607**
 GLENNAN MICROSYSTEMS INIATIVE FY 01 PROJECTS
 02/26/2001 - 11/30/2001 FY01: \$140,000 Total: \$140,000
Prin. Invest.: P DUTTA
Tech. Officer: GRC/M V ZELLER
CASE Category: 47 - METAL & MATERIALS ENGR

NCC 2 1130 **OHIO STATE UNIV** **7608**
 DISTRIBUTED & COOPERATIVE PROBLEM-SOLVING IN AIR C ARRIER & AIR
 TRAFFICE COMMUNICATION
 08/04/1999 - 07/14/2000 FY01: -\$1,784 Total: \$91,216
Prin. Invest.: C E MCCOY
Tech. Officer: ARC/J M ORASANU
CASE Category: 69 - PSYCHOLOGY, OTHER

NCC 2 1261 **OHIO STATE UNIV** **7609**
 VISUALIZING TIME-VARYING DATA DISTRIBUTIONS IN EOS APPLICATIONS
 04/26/2001 - 02/28/2002 FY01: \$47,478 Total: \$47,478
Prin. Invest.: H SHEN
Tech. Officer: ARC/D L KAO, ARC/V R WATSON
CASE Category: 22 - COMPUTER SCIENCE

NCC 3 434 **OHIO STATE UNIV** **7610**
 DEVELOPMENT OF LOW REYNOLDS NUMBER HEAT EXCHANGERS
 09/25/1995 - 12/02/2000 FY01: \$0 Total: \$824,635
Prin. Invest.: R N CHRISTENSEN, Y GUEZENNEC
Tech. Officer: GRC/T T MOCKLER, GRC/D BENTS
CASE Category: 46 - MECHANICAL ENGR

NCC 3 733 **OHIO STATE UNIV** **7611**
 DESIGN AND DEVELOPMENT OF SMART ELECTROMAGNETIC ST
 RUCTURES
 09/22/1999 - 09/30/2000 FY01: -\$2,005 Total: \$16,495
Prin. Invest.: G WASHINGTON
Tech. Officer: GRC/R ROMANOFOSKY
CASE Category: 45 - ELECTRICAL ENGR

NCC 3 899 **OHIO STATE UNIV** **7612**
 DEVELOPMENT OF ADVANCED SOLAR CELL TECHNOLOGY DEVELOPMENT
 OF ADVANCED SOLAR CELL TECHNOLOGY
 06/20/2001 - 06/30/2002 FY01: \$23,000 Total: \$23,000
Prin. Invest.: S A RINGEL
Tech. Officer: GRC/E B CLARK
CASE Category: 45 - ELECTRICAL ENGR

NGT 3 52355 **OHIO STATE UNIV** **7613**
 GRADUATE STUDENT RESEARCH PROGRAM GRADUATE STUDENT
 RESEARCH PROGRAM
 06/24/1999 - 06/30/2000 FY01: \$0 Total: \$44,000
Prin. Invest.: S A RINGEL
Tech. Officer: GRC/F J MONTEGANI
CASE Category: 45 - ELECTRICAL ENGR

NGT 3 52363 **OHIO STATE UNIV** **7614**
 GRADUATE STUDENT RESEARCH PROGRAM GRADUATE STUDENT
 RESEARCH PROGRAM
 06/12/2000 - 09/18/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: P K DUTTA
Tech. Officer: GRC/F J MONTEGANI
CASE Category: 43 - CHEMICAL ENGR

NGT 3 52373 **OHIO STATE UNIV** **7615**
 GRADUATE STUDENT RESEARCH
 06/07/2001 - 08/31/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: V V SUBRAMANIAM
Tech. Officer: GRC/F J MONTEGANI
CASE Category: 46 - MECHANICAL ENGR

NGT 5 30012 **OHIO STATE UNIV** **7616**
 AN ICE CORE PALEOCLIMATE STUDY OF WINDY DOME, FRAN DEVELOP-
 MENT OF A SEA ICE PROXY FROM SATELLITE AND
 10/14/1996 - 08/31/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: L G THOMPSON
Tech. Officer: GSFC/G ASRAR
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30042 **OHIO STATE UNIV** **7617**
 BIOMASS BURNING IN TROPICAL RAIN FORESTS: AN ANALY AND LAND
 USE PRACTICE TO ASSESS BURNING PATTERNS
 10/17/1996 - 09/30/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: L BROWN/SORRENSEN
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30178 **OHIO STATE UNIV** **7618**
 METEOROLOGICAL PROCESSES CONTROLLING THE SPATIAL & TEMPORAL
 VARIABILITY OF NET ANNUAL ACCUMULATION:
 08/12/1999 - 08/31/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: E MOSLEY-THOMPSON
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50015 **OHIO STATE UNIV** **7619**
 THE ROLE OF ELECTRICAL EVENTS IN CONTROLLING DIFFE GRAVI-
 TROPISM IN THE DEZ
 09/06/1997 - 12/31/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: M EVANS
Tech. Officer: HQ/A NURRIDIN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 9 51 **OHIO STATE UNIV** **7620**
 ACID SULFATE DRAINAGE: A MODEL SYSTEM FOR UNDERSTA NDING
 POTENTIAL BIOMINERALIZATION PROCESSION MARS
 07/11/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: J BIGHAM
Tech. Officer: JSC/R MORRIS
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 1 2036 **OHIO UNIV** **7621**
 MODIFYING & TESTING ATC CONTROLLER INTERFACE (CI) FOR DATA LINK
 CLEARANCES
 03/24/1998 - 02/28/2001 FY01: \$0 Total: \$386,981
Prin. Invest.: J M RANKIN, P MATTSON
Tech. Officer: LARC/R W WILLS
CASE Category: 45 - ELECTRICAL ENGR

NAG 1 2099 **OHIO UNIV** **7622**
 HAPTICS-AUGMENTED NASA EDUCATION VIA THE INTERNET
 08/10/1998 - 09/30/1999 FY01: -\$1,540 Total: \$28,492
Prin. Invest.: R L WILLIAMS
Tech. Officer: LARC/J M SEATON
CASE Category: 22 - COMPUTER SCIENCE

NAG 1 2299 **OHIO UNIV** **7623**
 HAPTICS-AUGMENTED SCIENCE EDUCATION
 05/16/2000 - 05/15/2001 FY01: \$12,679 Total: \$30,430
Prin. Invest.: R L WILLIAMS
Tech. Officer: LARC/J M SEATON
CASE Category: 29 - MATH/COMPUTER SCI, OTHER

NAG 1 01094 **OHIO UNIV** **7624**
 HAPTICS-AUGMENTED EDUCATION
 06/01/2001 - 05/31/2004 FY01: \$14,000 Total: \$14,000
Prin. Invest.: R L WILLIAMS
Tech. Officer: LARC/J M SEATON
CASE Category: 29 - MATH/COMPUTER SCI, OTHER

NAG 3 2385 **OHIO UNIV** **7625**
 WEATHER DATALINK RESEARCH WEATHER DATALINK RESEARCH
 04/05/2000 - 07/10/2001 FY01: \$0 Total: \$199,976
Prin. Invest.: T A SKIDMORE
Tech. Officer: GRC/P E POINSATTE
CASE Category: 45 - ELECTRICAL ENGR

NAG 3 2575 **OHIO UNIV** **7626**
 AVIATION WEATHER DATALINK FLIGHT TEST EVALUATIONS RESEARCH
 AND DEVELOPMENT
 03/23/2001 - 10/19/2001 FY01: \$49,723 Total: \$49,723
Prin. Invest.: T SKIDMORE
Tech. Officer: GRC/P POINSATTE
CASE Category: 45 - ELECTRICAL ENGR

NAG 3 2612 **OHIO UNIV** **7627**
 FLIGHT DEMONSTRATION OF A 3-DIMENSIONAL COCKPIT DI SPLAY OF
 TRAFFIC INFORMATION
 07/31/2001 - 09/30/2002 FY01: \$35,867 Total: \$35,867
Prin. Invest.: J RANKIN
Tech. Officer: GRC/B BREAM
CASE Category: 41 - AERONAUTICAL ENGR

NAG 5 7645 **OHIO UNIV** **7628**
 FUNDING FOR 'ANALYSIS OF POLAR OERSTED, SUNSAT, MA DSAT, AND
 POGO DATA' (SENH98-0063)
 08/27/1998 - 06/30/2002 FY01: \$37,000 Total: \$224,500
Prin. Invest.: R R VON FRESE
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 10349 **OHIO UNIV** **7629**
 PROPOSAL #537 DEVELOP A DYNAMIC RESOURCE MANAGE- MENT
 APPROACH FOR ADAPTIVE AGENT-BASED REAL-TI
 02/05/2001 - 02/14/2002 FY01: \$193,919 Total: \$193,919
Prin. Invest.: L WELCH
Tech. Officer: GSFC/B B PFARR
CASE Category: 22 - COMPUTER SCIENCE

NAG 5 11025 **OHIO UNIV** **7630**
 COOLING FLOWS AND RADIO GALAXIES: THE CHANDRA ERA (LTSA 2000)
 06/13/2001 - 06/14/2002 FY01: \$100,000 Total: \$100,000
Prin. Invest.: B MCNAMARA
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 8 1789 **OHIO UNIV** **7631**
 FUTURE IMPROVEMENT OF A TRAJECTORY LINERIZATION FLIGHT
 CONTROLLER FOR X-33
 03/06/2001 - 12/31/2001 FY01: \$34,833 Total: \$34,833
Prin. Invest.: J J ZHU
Tech. Officer: MSFC/D R KRUPP/C E HALL
CASE Category: 42 - ASTRONAUTICAL ENGR

NAS 5 00185 **OHIO UNIV** **7632**
 ADAPTIVE MANAGEMENT OF COMPUTING & NETWORK RESOURCES FOR
 REAL-TIME SENSOR WEBS.
 08/31/2000 - 08/30/2002 FY01: \$154,681 Total: \$342,988
Prin. Invest.: L WELCH, NONE
Tech. Officer: GSFC/B PFAR
CASE Category: 22 - COMPUTER SCIENCE

NAS 8 01105 **OHIO UNIV** **7633**
 THEORETICAL VALIDATION, FEV & IMPLEMETNATION OF AL GORITHMS, &
 PREFORMING SIMULATION TESTING
 05/18/2001 - 09/30/2005 FY01: \$369,018 Total: \$369,018
Prin. Invest.: J ZHU, D A LAWRENCE
Tech. Officer: MSFC/J M RANKIN
CASE Category: 49 - ENGINEERING, OTHER

NCC 1 351 **OHIO UNIV** **7634**
 A DTED TERRAIN AVOIDANCE SYS UTILIZING GPS AND RADAR ALTIMETER
 MONITORING, RE NRA 98-LARC-10
 09/01/1999 - 12/31/2002 FY01: \$586,000 Total: \$953,000
Prin. Invest.: J M RANKIN, D DIGGLE, M U DE HAAG
Tech. Officer: LARC/R M HUESCHEN, LARC/R V PARRISH
CASE Category: 41 - AERONAUTICALENGNR

NCC 2 827 **OHIO UNIV** **7635**
 DISTRIBUTED & COOPERATIVE PROBLEM-SOLVING IN THE NATIONAL
 AVIATION SYSTEM
 09/20/1993 - 05/31/2000 FY01: \$0 Total: \$341,713
Prin. Invest.: C E MCCOY, P J SMITH
Tech. Officer: ARC/J M ORASANU
CASE Category: 59 - LIFE SCIENCE, OTHER

NCC 2 1030 **OHIO UNIV** **7636**
 WEATHER-RELATED PILOT DECISION-MAKING CONTEXT CATEGORIZATION
 03/25/1998 - 12/31/2000 FY01: \$0 Total: \$132,386
Prin. Invest.: C E MCCOY
Tech. Officer: ARC/J M ORASANU
CASE Category: 69 - PSYCHOLOGY, OTHER

NCC 2 1258 **OHIO UNIV** **7637**
 EXTREME DECISION-MAKING: WEATHER RELATED PILOT DECISION-
 MAKING
 04/20/2001 - 11/14/2001 FY01: \$77,199 Total: \$77,199
Prin. Invest.: C E MCCOY
Tech. Officer: ARC/J ORASANU
CASE Category: 69 - PSYCHOLOGY, OTHER

NCC 3 680 **OHIO UNIV** **7638**
 A STUDY OF MULTI-USER TCPTRAFFIC OVER ACTS A STUDY OF MULTI-
 USER TCPTRAFFIC OVER ACTS
 03/10/1999 - 05/15/2001 FY01: \$3,312 Total: \$90,935
Prin. Invest.: S OSTERMANN
Tech. Officer: GRC/W D IVANCIC
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 10453 **OHIO WESLEYAN UNINERITY** **7639**
 INFORMAL & UNDERGRADUATE SCIENCE EDUCATION OPPORTUNITIES AT
 OHIO WESLEYAN UNIV
 02/28/2001 - 02/28/2003 FY01: \$1,373,000 Total: \$1,373,000
Prin. Invest.: W LOUTHAN
Tech. Officer: HQ/J ROSENDHAL
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 3 1747 **UNIV OF AKRON** **7640**
 DEVELOPMENTS IN COUPLED DEFORMATION-DAMAGE AND FRACTURE
 MODELING FOR LIFE PREDICTIONS OF STRUCTURES
 05/19/1995 - 09/15/2000 FY01: \$0 Total: \$557,413
Prin. Invest.: A F SALEEB
Tech. Officer: GRC/S M ARNOLD
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2182 **UNIV OF AKRON** **7641**
 FAST POTENTIAL THEORETIC METHODS FOR FAR-FIELD SOUND RADI-
 ATION PROBLEMS
 07/18/1998 - 06/30/2001 FY01: \$0 Total: \$30,000
Prin. Invest.: D I HAIHARAN
Tech. Officer: GRC/J R SCOTT
CASE Category: 29 - MATH/COMPUTER SCI, OTHER

NAG 3 2278 **UNIV OF AKRON** **7642**
 IMPLEMENTATION AND PERFORMANCE EVALUATION OF A DC/DC
 CONVERTER FOR CRYOGENIC APPLICATIONS
 07/15/1999 - 06/23/2000 FY01: -\$5,981 Total: \$24,019
Prin. Invest.: M E ELBULUK
Tech. Officer: GRC/R L PATTERSON
CASE Category: 45 - ELECTRICAL ENGR

NAG 3 2279 **UNIV OF AKRON** **7643**
 SYSTEM AND PROPAGATION AVAILABILITY ANALYSIS FOR NASA'S
 ADVANCED AIR TRANSPORTATION TECHNOLOGIES (A)
 07/12/1999 - 08/14/2001 FY01: \$0 Total: \$74,100
Prin. Invest.: O C UGWEJE
Tech. Officer: GRC/R J ACOSTA
CASE Category: 45 - ELECTRICAL ENGR

NAG 3 2312 **UNIV OF AKRON** **7644**
 DISCRETE-FREQUENCY NOISE PREDICTIONS IN AN ANNULAR CASCADE
 USING TIGER/AWAKEN/TURBO/LINFLUX
 12/29/1999 - 12/31/2000 FY01: -\$2,567 Total: \$17,236
Prin. Invest.: S SAWYER
Tech. Officer: GRC/E ENVIA
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2390 **UNIV OF AKRON** **7645**
 HIGH TEMPERATURE ADHESIVES AND STRUCTURAL RESINS HIGH
 TEMPERATURE ADHESIVES AND STRUCTURAL RESINS
 04/12/2000 - 06/30/2001 FY01: \$24,468 Total: \$65,832
Prin. Invest.: F W HARRIS
Tech. Officer: GRC/C CHUANG
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 3 2420 **UNIV OF AKRON** **7646**
 A NEW FINITE ELEMENT FORMULATION ANALYSIS OF AEROSPACE
 STRUCTURES
 05/11/2000 - 02/25/2002 FY01: \$50,034 Total: \$120,031
Prin. Invest.: S N PATNAIK
Tech. Officer: GRC/G R HALFORD
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2442 **UNIV OF AKRON** **7647**
 STEREO IMAGING VELOCIMETRY OF MIXING DRIVEN BY BUOYANCY
 INDUCED FLOW FIELDS
 05/23/2000 - 11/30/2003 FY01: \$35,561 Total: \$72,994
Prin. Invest.: C BATUR
Tech. Officer: GRC/W B DUVAL
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2444 **UNIV OF AKRON** **7648**
 NE OHIO URBAN GROWTH MONITORING AND MODELING PROTOTYPE
 05/24/2000 - 09/30/2001 FY01: \$0 Total: \$105,000
Prin. Invest.: D SIEBERT
Tech. Officer: GRC/T M SCOTT
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 3 2494 **UNIV OF AKRON** **7649**
 COMPRESSOR SURGE INCEPTION AND SURGE DISCRIMINATION FROM
 TIME SERIES
 11/08/2000 - 04/27/2002 FY01: \$44,519 Total: \$44,519
Prin. Invest.: H K QAMMAR
Tech. Officer: GRC/M BRIGHT
CASE Category: 21 - MATHEMATICS

NAG 3 2512	UNIV OF AKRON	7650	NCC 3 578	UNIV OF AKRON	7658
GRAVITATIONAL INFLUENCES ON FLAME PROPAGATION THROUGH NON-UNIFORM PRE-MIXED GAS SYSTEMS			ENHANCEMENTS TO NURBS-BASED FEA AIRFOIL MODLER-SABER		
12/08/2000 - 11/30/2004	FY01: \$16,688	Total: \$16,688	10/24/1997 - 06/24/2002	FY01: \$25,000	Total: \$238,076
<i>Prin. Invest.:</i> D PERRY			<i>Prin. Invest.:</i> A F SALEEB, D A TROWBRIDGE		
<i>Tech. Officer:</i> GRC/K R SACKSTEDER			<i>Tech. Officer:</i> GRC/S A THORP		
<i>CASE Category:</i> 49 - ENGINEERING, OTHER			<i>CASE Category:</i> 46 - MECHANICAL ENGR		
NAG 3 2537	UNIV OF AKRON	7651	NCC 3 682	UNIV OF AKRON	7659
APPLICATION OF PERIODIC BOUNDARY CONDITIONS IN THE AEROACOUSTICS OF TURBOMACHINERY			IMPROVED HIGH TEMPERATURE POLYIMIDE COMPOSITES IMPROVED HIGH TEMPERATURE POLYIMIDE COMPOSITES		
02/08/2001 - 01/31/2004	FY01: \$15,000	Total: \$15,000	02/24/1999 - 03/31/2001	FY01: \$21,894	Total: \$393,389
<i>Prin. Invest.:</i> S SAWYER			<i>Prin. Invest.:</i> R K EBY		
<i>Tech. Officer:</i> GRC/E ENVIA			<i>Tech. Officer:</i> GRC/M A MEADOR		
<i>CASE Category:</i> 41 - AERONAUTICAL ENGR			<i>CASE Category:</i> 47 - METAL & MATERIALS ENGR		
NAG 3 2566	UNIV OF AKRON	7652	NCC 3 716	UNIV OF AKRON	7660
INFRASTRUCTURE ADDITIONS FOR A POLYMER NATECHNOLOGYCENTER AT THE UNIV OF AKRON			THEORY, MODELING, SOFTWARE AND HARDWARE DEVELOPMENT IN COMPUTATIONAL MATERIALS SCIENCE		
03/16/2001 - 03/18/2002	FY01: \$998,000	Total: \$998,000	06/25/1999 - 07/06/2003	FY01: \$142,222	Total: \$358,694
<i>Prin. Invest.:</i> F N KELLEY			<i>Prin. Invest.:</i> G W YOUNG		
<i>Tech. Officer:</i> GRC/M A MEADOR			<i>Tech. Officer:</i> GRC/A CHAIT		
<i>CASE Category:</i> 47 - METAL & MATERIALS ENGR			<i>CASE Category:</i> 47 - METAL & MATERIALS ENGR		
NAG 3 2572	UNIV OF AKRON	7653	NCC 3 738	UNIV OF AKRON	7661
LOW MELT VISCOSITY RESINS FOR RESIN TRANSFER MOLDING			ANALYSIS AND DESIGN OPTIMIZATION OF MULTI-LAYER PANEL STRUCTURES WITH NEURAL NETWORK AND REGRESSION		
03/22/2001 - 11/30/2001	FY01: \$44,637	Total: \$44,637	10/20/1999 - 12/09/2000	FY01: \$0	Total: \$86,086
<i>Prin. Invest.:</i> F W HARRIS			<i>Prin. Invest.:</i> S N PATNAIK		
<i>Tech. Officer:</i> GRC/C CHUANG			<i>Tech. Officer:</i> GRC/D HOPKINS		
<i>CASE Category:</i> 12 - CHEMISTRY			<i>CASE Category:</i> 49 - ENGINEERING, OTHER		
NAG 3 2632	UNIV OF AKRON	7654	NCC 3 744	UNIV OF AKRON	7662
DEVELOPMENT OF AN OPTICAL REAL-TIME POLARIMETRIC IMAGING SYSTEM FOR AEROSPACE APPLICATIONS			DESIGN, PROGRESSIVE MODELING, MANUFACTURE, AND TESTING OF COMPOSITE SHIELD FOR TURBINE ENGINEBLADE		
06/07/2001 - 05/31/2002	FY01: \$58,423	Total: \$58,423	12/01/1999 - 11/17/2001	FY01: \$174,825	Total: \$363,515
<i>Prin. Invest.:</i> G C GIAKOS			<i>Prin. Invest.:</i> E SANCAKTAR		
<i>Tech. Officer:</i> GRC/D NG			<i>Tech. Officer:</i> GRC/G D ROBERTS		
<i>CASE Category:</i> 19 - PHYSICAL SCIENCE, OTHER			<i>CASE Category:</i> 47 - METAL & MATERIALS ENGR		
NCC 3 441	UNIV OF AKRON	7655	NCC 3 752	UNIV OF AKRON	7663
COMPUTATIONAL TOOL AND TECHNIQUES FOR THE MACRO/NUCRIMEMECHANICAL ANALYSIS OF COMPOSITE STRUCTURES			STUDIES ON STRESS-STRAIN RELATIONSHIPS OF POLYMERIC MATERIALS USED IN SPACE APPLICATIONS		
12/14/1995 - 09/03/2000	FY01: -\$42	Total: \$562,686	12/28/1999 - 09/30/2001	FY01: \$149,559	Total: \$234,212
<i>Prin. Invest.:</i> A F SALEEB			<i>Prin. Invest.:</i> S C JANA		
<i>Tech. Officer:</i> GRC/S M ARNOLD			<i>Tech. Officer:</i> GRC/A FREED		
<i>CASE Category:</i> 41 - AERONAUTICAL ENGR			<i>CASE Category:</i> 49 - ENGINEERING, OTHER		
NCC 3 526	UNIV OF AKRON	7656	NCC 3 765	UNIV OF AKRON	7664
UTILIZATION OF FRACTIONAL ORDER SYSTEMS IN CONTROL IN ENGINEERING			DEVELOPMENT OF EFFICIENT NUMERICAL ALGORITHMS FOR PREDICTION OF FAR-FIELD ACOUSTIC NOISE		
01/06/1997 - 12/31/2001	FY01: -\$511	Total: \$84,569	02/07/2000 - 01/02/2002	FY01: \$0	Total: \$60,000
<i>Prin. Invest.:</i> T T HARTLEY			<i>Prin. Invest.:</i> K KREIDER		
<i>Tech. Officer:</i> GRC/C LORENZO			<i>Tech. Officer:</i> GRC/J SCOTT		
<i>CASE Category:</i> 49 - ENGINEERING, OTHER			<i>CASE Category:</i> 41 - AERONAUTICAL ENGR		
NCC 3 567	UNIV OF AKRON	7657	NCC 3 768	UNIV OF AKRON	7665
DETERMINATION OF OPTIMUM HEATING ZONE LENGTH & CONTROL TERMOCOUPLE PLACEMENT FOR GRIDGMAN CRYSTAL G			ADVANCED STRUCTURAL, IMPACT AND LIFE ANALYSES OF AEROSPACE COMPONENTS		
07/01/1997 - 07/31/2001	FY01: \$0	Total: \$38,997	02/02/2000 - 02/25/2002	FY01: \$147,462	Total: \$300,317
<i>Prin. Invest.:</i> C BATUR			<i>Prin. Invest.:</i> V K ARYA		
<i>Tech. Officer:</i> GRC/W B DUVAL			<i>Tech. Officer:</i> GRC/G R HALFORD		
<i>CASE Category:</i> 46 - MECHANICAL ENGR			<i>CASE Category:</i> 49 - ENGINEERING, OTHER		

NCC 3 788 **UNIV OF AKRON** **7666**
 DEFORMATION AND LIFE OR POLYMER MATRIX COMPOSITE (PMC)
 FLYWHEEL ROTORS
 03/27/2000 – 02/28/2002 FY01: \$49,000 Total: \$96,932
Prin. Invest.: D F SALEEB
Tech. Officer: GRC/A ARNOLD
CASE Category: 46 – MECHANICAL ENGR

NCC 3 794 **UNIV OF AKRON** **7667**
 HOMOPOLYROTAXANES AND HOMOPOLYROTAXAND NETWORKS OF PEO
 04/20/2000 – 04/17/2002 FY01: \$85,698 Total: \$165,798
Prin. Invest.: C PUGH
Tech. Officer: GRC/M MEADOR
CASE Category: 12 – CHEMISTRY

NCC 3 802 **UNIV OF AKRON** **7668**
 POLYMER SOLID ELECTROLYTES FOR RECHARGEABLE BATTERIES
 05/23/2000 – 05/17/2001 FY01: \$103,427 Total: \$153,427
Prin. Invest.: F W HARRIS
Tech. Officer: GRC/M MEADOR
CASE Category: 12 – CHEMISTRY

NCC 3 808 **UNIV OF AKRON** **7669**
 DEFECT DETECTION SCHEMES AND ALGORITHMIC DEVELOPMENT FOR
 LARGE-SCALE SIMULATIONS OF DAMAGING VISCO-
 06/16/2000 – 03/14/2002 FY01: \$297,000 Total: \$397,000
Prin. Invest.: A F SALEEB
Tech. Officer: GRC/S M ARNOLD
CASE Category: 41 – AERONAUTICAL ENGR

NCC 3 820 **UNIV OF AKRON** **7670**
 MODEL-BASED CONTROL OF BATTERIES AND FUEL CELLS FOR LONGER
 LIFE
 08/09/2000 – 08/31/2001 FY01: \$60,644 Total: \$112,644
Prin. Invest.: D T HARTLEY
Tech. Officer: GRC/M MANZO
CASE Category: 49 – ENGINEERING, OTHER

NCC 3 828 **UNIV OF AKRON** **7671**
 RESEARCH AND DEVELOPMENT OF IMPROVED RF SIGNAL SWITCHING
 AND DISTRIBUTION TECHNIQUES IN CIVILAVIATION
 09/29/2000 – 09/30/2001 FY01: \$24,739 Total: \$24,739
Prin. Invest.: O C UGWEJE
Tech. Officer: GRC/H NGUYEN
CASE Category: 45 – ELECTRICAL ENGR

NCC 3 831 **UNIV OF AKRON** **7672**
 DESIGN OPTIMIZATION OF STRUCTURAL PANELS WITH ANALYSIS
 APPROXIMATORS AT THE SUBPROBLEM LEVEL
 12/12/2000 – 11/30/2001 FY01: \$86,804 Total: \$86,804
Prin. Invest.: S N PATNAIK
Tech. Officer: GRC/D HOPKINS
CASE Category: 46 – MECHANICAL ENGR

NCC 3 839 **UNIV OF AKRON** **7673**
 RESEARCH IN INNOVATIVE USE OF SMART MATERIALS IN PROPULSION
 SYSTEM COMPONENTS-CONTROL AND EXPERIMENTATION
 12/20/2000 – 12/31/2001 FY01: \$68,662 Total: \$68,662
Prin. Invest.: G SONG
Tech. Officer: GRC/H LEE
CASE Category: 49 – ENGINEERING, OTHER

NCC 3 877 **UNIV OF AKRON** **7674**
 HIGH TEMPERATURE FUEL CELLS
 03/14/2001 – 03/05/2002 FY01: \$164,334 Total: \$164,334
Prin. Invest.: R K EBY
Tech. Officer: GRC/M A MEADOR
CASE Category: 47 – METAL & MATERIALS ENGR

NGT 2 52228 **UNIV OF AKRON** **7675**
 THE DEVELOPMENT OF NEURAL-NETWORK-ENHANCED ELECTRIC AL
 INDEPENDANCE CARDIOGRAPH FOR HEMODYNAMIC.....
 08/14/1997 – 02/28/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: B C TAYLOR
Tech. Officer: ARC/P S COWINGS
CASE Category: 49 – ENGINEERING, OTHER

NGT 3 52327 **UNIV OF AKRON** **7676**
 GRADUATE STUDENT RESEARCHERS PROGRAM
 06/10/1997 – 01/31/2001 FY01: -\$855 Total: \$65,145
Prin. Invest.: R K EBY
Tech. Officer: GRC/FJ MONTEGANI
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 3 52344 **UNIV OF AKRON** **7677**
 GRADUATE STUDENT RESEARCHERS PROGRAM
 07/28/1998 – 05/31/2000 FY01: -\$25,925 Total: \$40,075
Prin. Invest.: R K EBY
Tech. Officer: GRC/F J MONTEGANI
CASE Category: 49 – ENGINEERING, OTHER

NGT 3 52364 **UNIV OF AKRON** **7678**
 GRADUATE STUDENT RESEARCH PROGRAM GRADUATE STUDENT
 RESEARCH PROGRAM
 06/13/2000 – 06/30/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: D PERRY
Tech. Officer: GRC/F J MONTEGANI
CASE Category: 12 – CHEMISTRY

NAG 3 1987 **UNIV OF CINCINNATI** **7679**
 INVESTIGATION OF SIMPLEX NOZZLES FOR ADVANCED COMBUSTORS
 11/06/1996 – 11/01/2000 FY01: -\$4 Total: \$220,481
Prin. Invest.: S M JENG
Tech. Officer: GRC/R R TACINA
CASE Category: 41 – AERONAUTICAL ENGR

NAG 3 2087 **UNIV OF CINCINNATI** **7680**
 DATA BASE FOR REALISTIC COMPUTATIONAL MODELING OF INLET/COM-
 PRESSOR INTERFACES DURING RAPID FLOW TRANSPORT
 01/16/1998 – 12/31/2000 FY01: \$0 Total: \$252,017
Prin. Invest.: M SAJBEN
Tech. Officer: GRC/G L COLE
CASE Category: 41 – AERONAUTICAL ENGR

NAG 3 2281 **UNIV OF CINCINNATI** **7681**
 DEVELOPMENT OF A MACROPOROUS SINTER WICK BASED HEAT ENGINE FOR
 HEAT TRANSFER FROM MICRO DEVICES
 07/20/1999 – 01/20/2000 FY01: \$0 Total: \$45,000
Prin. Invest.: H HENDERSON
Tech. Officer: GRC/S M GENG
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 2437	UNIV OF CINCINNATI	7682	NAG 5 9475	UNIV OF CINCINNATI	7690
OHIOVIEW UNDERGRADUATE DISTANCE LEARNING PROTOTYPE OHIO- VIEW UNDERGRADUATE DISTANCE LEARNING PROTOTYP 05/22/2000 – 09/30/2001 FY01: \$0 Total: \$360,000 <i>Prin. Invest.:</i> D BECK <i>Tech. Officer:</i> GRC/T SCOTT <i>CASE Category:</i> 39 – ENVIRONMENTAL SCI, OTHER			IR SPECTROSCOPY OF DUSTY PROTOSTELLAR DISKS 04/20/2000 – 04/30/2002 FY01: \$60,000 Total: \$120,000 <i>Prin. Invest.:</i> M SITKO <i>Tech. Officer:</i> GSFC/J BOYCE <i>CASE Category:</i> 13 – PHYSICS		
NAG 3 2451	UNIV OF CINCINNATI	7683	NAG 5 10384	UNIV OF CINCINNATI	7691
MICROSCOPIC FLOW VISUALIZATION IN DE-MIXING FLUIDS DURING POLY- MERIC MEMBRANE FORMATION IN LOW-G 06/01/2000 – 11/30/2003 FY01: \$95,000 Total: \$145,000 <i>Prin. Invest.:</i> W B KRANTZ <i>Tech. Officer:</i> GRC/H C DEGROH <i>CASE Category:</i> 49 – ENGINEERING, OTHER			DYNAMICS AND CONTROL OF DISTRIBUTED SPACECRAFT. 02/07/2001 – 01/14/2002 FY01: \$106,975 Total: \$106,975 <i>Prin. Invest.:</i> T WILLIAMS <i>Tech. Officer:</i> GSFC/D FOLTA <i>CASE Category:</i> 41 – AERONAUTICAL ENGR		
NAG 3 2462	UNIV OF CINCINNATI	7684	NAS 1 00123	UNIV OF CINCINNATI	7692
INTEGRATED ATOMIZER/SWIRLER FOR LEAN DIRECT INJECT ION COMBUS- TION 06/14/2000 – 06/04/2002 FY01: \$83,205 Total: \$121,209 <i>Prin. Invest.:</i> S JENG <i>Tech. Officer:</i> GRC/R R TACINA <i>CASE Category:</i> 41 – AERONAUTICAL ENGR			PROOF OF CONCEPT MICRO LOOP HEAT PIPE SYSTEM FOR S PACE SOLAR POWER SATELLITES 06/16/2000 – 10/31/2000 FY01: \$0 Total: \$150,000 <i>Prin. Invest.:</i> H T HENDERSOM, S BHANSALI <i>Tech. Officer:</i> LARC/C L MOORE, GRC/E GALIHER <i>CASE Category:</i> 46 – MECHANICAL ENGR		
NAG 3 2487	UNIV OF CINCINNATI	7685	NAS 3 01120	UNIV OF CINCINNATI	7693
A SIMULATION STUDY OF SIGE HBTS FOR POWER APPLICAT IONS AT MICROWAVE FREQUENCIES 09/27/2000 – 09/07/2003 FY01: \$97,839 Total: \$97,839 <i>Prin. Invest.:</i> K P ROENKER <i>Tech. Officer:</i> GRC/G E PONCHAK <i>CASE Category:</i> 45 – ELECTRICAL ENGR			DEVELOPMENT OF AN INTEGRATED LOOP HEAT PIPE, USING COHERENT POROUS SILICON AS A WICK 03/21/2001 – 12/31/2001 FY01: \$119,999 Total: \$119,999 <i>Prin. Invest.:</i> T HENSEN <i>Tech. Officer:</i> GRC/E GOLLIHER <i>CASE Category:</i> 46 – MECHANICAL ENGR		
NAG 5 6946	UNIV OF CINCINNATI	7686	NCC 2 1139	UNIV OF CINCINNATI	7694
ORDOVICIAN BIODIVERSITY: GEOGRAPHY AND ENVIRONMEN T 02/12/1998 – 06/30/2000 FY01: -\$3 Total: \$99,997 <i>Prin. Invest.:</i> A I MILLER <i>Tech. Officer:</i> GSFC/M MEYER <i>CASE Category:</i> 11 – ASTRONOMY			ADVANCED TRAJECTORY ANALYSIS WITH APPLICATION TO A IR TRAFFIC CONTROL 09/03/1999 – 03/31/2002 FY01: \$55,427 Total: \$102,612 <i>Prin. Invest.:</i> G L SLATER <i>Tech. Officer:</i> ARC/T J DAVIS, ARC/D R ISAACSON <i>CASE Category:</i> 41 – AERONAUTICAL ENGR		
NAG 5 7098	UNIV OF CINCINNATI	7687	NGT 5 30108	UNIV OF CINCINNATI	7695
USING LANDSAT DATA TO DEVELOP AN IMAGE BASED LOGIS TIC REGRES- SION MODEL FOR PREDICTING DEFORESTATIO 05/28/1998 – 11/30/1999 FY01: -\$444 Total: \$153,434 <i>Prin. Invest.:</i> R C FROHN <i>Tech. Officer:</i> GSFC/D E WICKLAND <i>CASE Category:</i> 39 – ENVIRONMENTAL SCI, OTHER			SPACE-TIME CHARACTERIZATION OF REMOTELY SENSED SOI L MOIS- TURE 02/10/1998 – 09/30/2001 FY01: \$0 Total: \$66,000 <i>Prin. Invest.:</i> S ISLAM <i>Tech. Officer:</i> GSFC/G ASRAR <i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER		
NAG 5 8986	UNIV OF CINCINNATI	7688	NGT 5 50040	UNIV OF CINCINNATI	7696
ULTRA-HOT WINDS FROM DO WHITE DWARFS – FUSE 01/27/2000 – 01/31/2002 FY01: \$0 Total: \$10,600 <i>Prin. Invest.:</i> M L SITKO <i>Tech. Officer:</i> GSFC/G SONNEBORN <i>CASE Category:</i> 11 – ASTRONOMY			A THEORY FOR THE EXACT INTEGRATION OF A REFERENCE L ATTITUDE PROGRAM FORMULATED AS PERTURBED JACOBI 08/15/1997 – 08/31/2000 FY01: \$0 Total: \$44,000 <i>Prin. Invest.:</i> P L RICHARDSON <i>Tech. Officer:</i> GSFC/A NURRIDIN <i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER		
NAG 5 9418	UNIV OF CINCINNATI	7689	NGT 5 50265	UNIV OF CINCINNATI	7697
ORDOVICIAN BIODIVERSITY: GEOGRAPHY AND ENVIRONMENT 04/11/2000 – 06/30/2002 FY01: \$50,900 Total: \$98,848 <i>Prin. Invest.:</i> A I MILLER <i>Tech. Officer:</i> GSFC/M MEYER <i>CASE Category:</i> 11 – ASTRONOMY			NEGATIVE REGULATION OF OSTEOCLASTOGENESIS BY ESTRO GENS VIA DIRECT ACTIONS ON HEMATOPOIETIC CELLS 07/07/1999 – 06/30/2001 FY01: \$0 Total: \$44,000 <i>Prin. Invest.:</i> J W PIKE <i>Tech. Officer:</i> GSFC/L SMITH <i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER		

NGT 8 52801 UNIV OF CINCINNATI 7698
 GRADSTUDENT RESEARCH PROGRAM
 07/28/1995 – 08/31/2000 FY01: -\$75 Total: \$87,925
Prin. Invest.: K N GHIA
Tech. Officer: MSFC/P K MCCONNAUGHEY
CASE Category: 41 – AERONAUTICAL ENGR

NAG 3 2318 UNIV OF DAYTON 7699
 QUALITY OF SERVICE FOR REAL-TIME APPLICATIONS OVER NEXT
 GENERATION DATA NETWORKS
 02/09/2000 – 12/31/2000 FY01: \$0 Total: \$130,000
Prin. Invest.: M ATIQUZZAMAN
Tech. Officer: GRC/W D IVANCIC
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 8451 UNIV OF DAYTON 7700
 DIAMOND, MOISSANITE, AND OSBORNITE: PHYSICS AND CHEMISTRY OF
 INTER-STELLAR GRAIN FORMATION
 04/09/1999 – 10/30/2000 FY01: -\$27 Total: \$21,973
Prin. Invest.: A W PHELPS
Tech. Officer: HQ/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 9804 UNIV OF DAYTON 7701
 STUDIES WITH SYNTHETIC INTERSTELLAR DIAMOND: RARE GAS
 INCORPORATION AND PHASE STABILITY
 07/14/2000 – 07/14/2002 FY01: \$30,000 Total: \$60,000
Prin. Invest.: A PHELPS
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 9808 UNIV OF DAYTON 7702
 FE-MG CARBONATES AS A MONITOR PHASE OF CARBON DIOXIDE AND
 OXYGEN FUGACITY ON MARS
 07/17/2000 – 06/30/2002 FY01: \$23,000 Total: \$45,000
Prin. Invest.: A M KOZIOL
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAS 1 99148 UNIV OF DAYTON 7703
 OPERATIONS AND MODELING ANALYSIS
 09/27/1999 – 10/31/2002 FY01: \$78,000 Total: \$150,500
Prin. Invest.: C E EBELING
Tech. Officer: LARC/W D MORRIS
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAS 8 98216 UNIV OF DAYTON 7704
 A NEW TECHNIQUE FOR ACHIEVING IMPACT VELOCITIES GREATER THAN
 10KM/S
 06/01/1998 – 07/31/2000 FY01: \$0 Total: \$299,558
Prin. Invest.: A J PIEKUTOWSKI
Tech. Officer: MSFC/G S OLSEN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 3 771 UNIV OF DAYTON 7705
 A FERROELECTRIC TUNABLE PRE-SELECT FILTER/LNA HYBRID CIRCUIT
 WITH A VOLTAGE CONTROLLABLE IMPEDANCE
 02/10/2000 – 11/08/2001 FY01: \$0 Total: \$30,000
Prin. Invest.: G SUBRAMANYAM
Tech. Officer: GRC/F MIRANDA
CASE Category: 45 – ELECTRICAL ENGR

NCC 3 824 UNIV OF DAYTON 7706
 INFRARED AVIONICS SIGNAL DISTRIBUTION: EXPERIMENTAL SETUP AND
 VERIFICATION
 09/20/2000 – 03/02/2001 FY01: -\$28,000 Total: \$0
Prin. Invest.: M ATIQUZZAMAN
Tech. Officer: GRC/H NGUYEN
CASE Category: 45 – ELECTRICAL ENGR

NCC 3 882 UNIV OF DAYTON 7707
 DESIGN OF FREQUENCY AGILE COMPONENTS USING PATTERNED
 FERROELECTRIC FILMS FOR K- AND KA-BAND APPLICATIONS
 04/18/2001 – 12/04/2001 FY01: \$22,633 Total: \$22,633
Prin. Invest.: G SUBRAMANYAM
Prin. Invest.: NONE
Tech. Officer: GRC/F A MIRANDA
CASE Category: 45 – ELECTRICAL ENGR

NGT 3 52351 UNIV OF DAYTON 7708
 GRADUATE STUDENT RESEARCH PROGRAM GRADUATE STUDENT
 RESEARCH PROGRAM
 06/23/1999 – 07/31/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: V JAIN
Tech. Officer: GRC/F J MONTEGANI
CASE Category: 49 – ENGINEERING, OTHER

NAG 1 2244 UNIV OF TOLEDO 7709
 DYNAMIC CONFIGURABLE OBJECT-ORIENTED FRAMEWORK FOR DISTRIBUTED
 MULTI-MODAL COMPUTATIONAL AEROSYSTEMS SIMULATION
 09/23/1999 – 08/31/2002 FY01: \$97,135 Total: \$207,104
Prin. Invest.: A AETEH, V A REED
Tech. Officer: LARC/W K GERDES
CASE Category: 22 – COMPUTER SCIENCE

NAG 3 1967 UNIV OF TOLEDO 7710
 BANDGAP ENGINEERING AND CIRCUIT DESIGN FOR LOW TEMPERATURE
 SPACE-BORNE POWER ELECTRONICS
 09/07/1996 – 12/31/1999 FY01: \$0 Total: \$105,386
Prin. Invest.: Y J KAPOOR, M A SMITH
Tech. Officer: GRC/R L PATTERSON, GRC/J E DICKMAN
CASE Category: 45 – ELECTRICAL ENGR

NAG 3 2264 UNIV OF TOLEDO 7711
 GEOMETRY INTEGRATION INTO NUMERICAL PROPULSION SYSTEMS
 SIMULATION ARCHITECTURE
 05/04/1999 – 04/26/2000 FY01: \$0 Total: \$60,000
Prin. Invest.: A A AFEH, NONE
Tech. Officer: GRC/G J FOLLEN
CASE Category: 41 – AERONAUTICAL ENGR

NAG 3 2269 UNIV OF TOLEDO 7712
 DEVELOPMENT OF NOVEL METHODS FOR THE REDUCTION OF NOISE AND
 WEIGHT IN HELICOPTER TRANSMISSIONS
 06/29/1999 – 12/31/2001 FY01: \$205,000 Total: \$320,052
Prin. Invest.: T G KEITH
Tech. Officer: GRC/T L KRANTZ
CASE Category: 46 – MECHANICAL ENGR

NAG 3 2282 **UNIV OF TOLEDO** **7713**
 DATA MINING AND OPTIMIZATION TOOLS FOR DEVELOPING ENGINE
 PARAMETER MODELS
 07/20/1999 - 07/01/2000 FY01: \$0 Total: \$55,985
Prin. Invest.: A P DHAWAN
Tech. Officer: GRC/J LITT
CASE Category: 29 - MATH/COMPUTER SCI, OTHER

NAG 3 2338 **UNIV OF TOLEDO** **7714**
 CHEMISTRY OF AVIATION FUELS CHEMISTRY OF AVIATION FUELS
 02/23/2000 - 12/31/2001 FY01: \$156,414 Total: \$289,414
Prin. Invest.: K L DEWITT
Tech. Officer: GRC/M RABINOWITZ
CASE Category: 43 - CHEMICAL ENGR

NAG 3 2408 **UNIV OF TOLEDO** **7715**
 INVESTIGATION OF PRESSURIZED WAVE BEARING INVESTIGATION OF
 PRESSURIZED WAVE BEARING
 05/01/2000 - 02/17/2002 FY01: \$41,113 Total: \$76,138
Prin. Invest.: T G KEITH
Tech. Officer: GRC/D P FLEMING
CASE Category: 46 - MECHANICAL ENGR

NAG 3 2409 **UNIV OF TOLEDO** **7716**
 DISSEMINATION OF REMOTE SENSING TECHNOLOGY IN NORT HWEST
 OHIO THROUGH EDUCATIONAL AND COMMUNITY OUTR
 05/04/2000 - 09/30/2001 FY01: \$0 Total: \$105,000
Prin. Invest.: D P CZAJKOWSKI
Tech. Officer: GRC/T M SCOTT
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 3 2502 **UNIV OF TOLEDO** **7717**
 DEVELOPMENT OF COMPUTATIONAL AEROACOUSTICS CODE FO R JET
 AND FAN NOISE AND FLOW PREDICTION
 11/07/2000 - 10/31/2001 FY01: \$129,682 Total: \$129,682
Prin. Invest.: T G KEITH
Tech. Officer: GRC/E ENVIA
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2505 **UNIV OF TOLEDO** **7718**
 CFD SIMULATION OF CASING TREATMENT OF AXIAL FLOW C OMPRES-
 SORS
 11/13/2000 - 09/30/2001 FY01: \$134,650 Total: \$134,650
Prin. Invest.: T G KEITH
Tech. Officer: GRC/J ADMACZYK
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2507 **UNIV OF TOLEDO** **7719**
 DEVELOPMENT OF ADVANCED CASING TREATMENTS FOR FLOW
 CONTROL
 11/20/2000 - 11/05/2001 FY01: \$119,190 Total: \$119,190
Prin. Invest.: T G KEITH, JR.
Tech. Officer: GRC/M D HATHAWAY
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2508 **UNIV OF TOLEDO** **7720**
 ESTABLISHMENT OF A DATA EXCHANGE MECHANISM FOR ZOO MING IN
 THE NPSS ARCHITECTURE
 11/29/2000 - 11/15/2001 FY01: \$60,014 Total: \$60,014
Prin. Invest.: A A AFJEH
Tech. Officer: GRC/G J FOLLEN
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2565 **UNIV OF TOLEDO** **7721**
 CRYOGENIC NANO ELECTRONICS FOR SPACE BORNE POWER SYSTEMS
 03/14/2001 - 03/14/2002 FY01: \$22,293 Total: \$22,293
Prin. Invest.: V J KAPOOR
Tech. Officer: GRC/R L PATTERSON
CASE Category: 45 - ELECTRICAL ENGR

NAG 3 2594 **UNIV OF TOLEDO** **7722**
 SIMULATION OF COORDINATED SATELLITE OPERATION
 04/17/2001 - 04/02/2004 FY01: \$49,999 Total: \$49,999
Prin. Invest.: D D JOHNSON
Tech. Officer: GRC/J D STEGEMAN
CASE Category: 29 - MATH/COMPUTER SCI, OTHER

NAG 3 2641 **UNIV OF TOLEDO** **7723**
 INVESTIGATION OF DYNAMIC FORCE/VIBRATION TRANSMISS ION CHAR-
 ACTERISTICS OF FOUR-SQUARE TYPE GEAR DURA
 07/16/2001 - 03/31/2002 FY01: \$31,295 Total: \$31,295
Prin. Invest.: A KAHRAMAN
Tech. Officer: GRC/R HANDSCHUH
CASE Category: 46 - MECHANICAL ENGR

NAG 3 2646 **UNIV OF TOLEDO** **7724**
 ADVANCED CONCEPTS RESEARCH FOR FLYWHEEL TECHNOLOGY
 APPLICATIONS
 08/30/2001 - 02/28/2002 FY01: \$49,999 Total: \$49,999
Prin. Invest.: T G KEITH
Tech. Officer: GRC/R F BEACH
CASE Category: 46 - MECHANICAL ENGR

NAG 5 3248 **UNIV OF TOLEDO** **7725**
 THE EFFECT OF ROTATION ON STELLAR WINDS: ASYMMETRI ES AND
 BIPOLAR STRUCTURES IN CIRCUMS
 10/09/1996 - 08/31/2001 FY01: \$0 Total: \$400,000
Prin. Invest.: J E BJORKMAN
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 3447 **UNIV OF TOLEDO** **7726**
 EFFECTS OF ROTATION AND REVISED IONIZATION BALANCE MASS-LOSS
 RATES FOR B STARS
 10/10/1996 - 10/14/2000 FY01: \$0 Total: \$150,000
Prin. Invest.: K BJORKMAN
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 3790 **UNIV OF TOLEDO** **7727**
 OPTICAL PROPERTIES OF CARBONACEOUS GRAIN MANTLE MA PURITIES
 03/10/1997 - 02/28/2001 FY01: \$0 Total: \$186,169
Prin. Invest.: D N WITT
Tech. Officer: GSFC/H HASAN
CASE Category: 11 - ASTRONOMY

NAG 5 4338 **UNIV OF TOLEDO** **7728**
 NEAR-IR EMISSION AND ABSORPTION CHARACTERISTICS OF MANTLE MATERIALS
 04/21/1997 - 03/31/2001 FY01: \$0 Total: \$156,000
Prin. Invest.: D N WITT
Tech. Officer: GSFC/H THRONSON
CASE Category: 11 - ASTRONOMY

NAG 5 4957 **UNIV OF TOLEDO** **7729**
 THE EVOLUTION OF INTERSTELLAR GAS - MASSIVE STARS
 06/27/1997 - 06/30/2002 FY01: \$98,200 Total: \$420,154
Prin. Invest.: S R FEDERMAN
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 6624 **UNIV OF TOLEDO** **7730**
 MAPPING THE DIFFUSE GALACTIC LIGHT AND EXTENDED RED EMISSION WITH PIONEER10 AND 11
 11/20/1997 - 12/31/2000 FY01: \$0 Total: \$103,052
Prin. Invest.: A WITT
Tech. Officer: GSFC/J LING
CASE Category: 11 - ASTRONOMY

NAG 5 7754 **UNIV OF TOLEDO** **7731**
 OSCILLATOR STRENGTHS FOR ULTRAVIOLET ATOMIC AND MOLECULAR TRANSITIONS
 11/25/1998 - 06/30/2001 FY01: \$0 Total: \$117,462
Prin. Invest.: S R FEDERMAN
Tech. Officer: GSFC/H HASAN
CASE Category: 11 - ASTRONOMY

NAG 5 8052 **UNIV OF TOLEDO** **7732**
 TERRESTRIAL ENVIRONMENT VARIABLES DERIVED FROM EOS PLATFORM SENSORS
 01/15/1999 - 01/31/2002 FY01: \$42,603 Total: \$156,377
Prin. Invest.: K P CZAJKOWSKI, NONE
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8054 **UNIV OF TOLEDO** **7733**
 CIRCUMSTELLAR ENVIRONMENTS OF HIGH- AND INTERMEDIATE-MASS STARS: FROM THE PRE-MAIN-SEQUENCE TO LB
 01/19/1999 - 01/14/2002 FY01: \$95,783 Total: \$286,188
Prin. Invest.: K S BJORKMAN
Prin. Invest.: NONE
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8183 **UNIV OF TOLEDO** **7734**
 DUST AND CONDENSATE CLOUDS IN THE MARTIAN POLAR REGIONS
 02/16/1999 - 08/31/2002 FY01: \$59,000 Total: \$178,600
Prin. Invest.: P B JAMES
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8671 **UNIV OF TOLEDO** **7735**
 USE OF THERMAL INFRARED SATELLITE DATA IN CLIMATE CHANGE STUDIES
 07/08/1999 - 07/14/2002 FY01: \$111,564 Total: \$334,317
Prin. Invest.: K P CZAJKOWSKI
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8785 **UNIV OF TOLEDO** **7736**
 A NEW CLASS OF UNNATURAL FOLDING OLIGOMERS: HELICES WITH NANO-SIZED CAVITIES
 08/26/1999 - 06/30/2000 FY01: \$0 Total: \$133,245
Prin. Invest.: B GONG
Tech. Officer: GSFC/R CROUCH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 8794 **UNIV OF TOLEDO** **7737**
 THE GEOMETRY AND EVOLUTION OF LOW-MASS STAR FORMATION (ATP 98)
 09/07/1999 - 09/14/2002 FY01: \$41,782 Total: \$61,782
Prin. Invest.: J E BJORKMAN
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8961 **UNIV OF TOLEDO** **7738**
 MOLECULAR HYDROGEN EXCITATION IN PHOTODISSOCIATION REGIONS - FUSE
 01/21/2000 - 10/31/2001 FY01: \$0 Total: \$74,200
Prin. Invest.: S R FEDERMAN
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 8982 **UNIV OF TOLEDO** **7739**
 DUST SCATTERING PROPERTIES IN REFLECTION NEBULAE - FUSE
 01/24/2000 - 01/31/2001 FY01: \$0 Total: \$33,100
Prin. Invest.: A N WITT
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 9202 **UNIV OF TOLEDO** **7740**
 MOVING BEYOND THE STANDARD PARADIGM: THE IMPORTANCE OF INTERSTELLAR DUST FROM THE MILKY WAY TO HIGH
 03/14/2000 - 03/14/2002 FY01: \$33,694 Total: \$65,858
Prin. Invest.: A WITT
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9376 **UNIV OF TOLEDO** **7741**
 INTERSTELLAR DUST IN GALAXIES (LISA - 99)
 04/11/2000 - 04/14/2002 FY01: \$94,745 Total: \$187,113
Prin. Invest.: A N WITT
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 10305 **UNIV OF TOLEDO** **7742**
 EFFECTS OF STAR FORMATION & STELLAR DEATH ON INTERSTELLAR GAS ASSOCIATED WITH CEP OB2 (FUSE00)
 01/29/2001 - 01/31/2002 FY01: \$36,800 Total: \$36,800
Prin. Invest.: S R FEDERMAN
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 8 1380 **UNIV OF TOLEDO** **7743**
 FOR RESEARCH ENTITLED "SEARCHING FOR THE BEST PROTEIN CRYSTALS"
 06/19/1997 - 07/31/2001 FY01: \$116,395 Total: \$604,995
Prin. Invest.: G BORGOTAH
Tech. Officer: MSFC/B GUYNES, MSFC/J MAYO
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1578 **UNIV OF TOLEDO** **7744**
 INFLUENCE OF IMPURITIES ON PROTEIN CRYSTAL GROWTH
 01/28/1999 - 11/30/2002 FY01: \$102,600 Total: \$307,600
Prin. Invest.: C A SCHALL
Tech. Officer: MSFC/B GUYNES
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 8 1825 **UNIV OF TOLEDO** **7745**
 SEARCHING FOR THE BEST PROTEIN CRYSTALS; INTE- GRATION OF
 SYNCHRONTRON-BASED CRYSTAL MEASUREMENTS
 08/29/2001 - 11/30/2004 FY01: \$101,000 Total: \$101,000
Prin. Invest.: G E BORGSTAHL
Tech. Officer: MSFC/B GUYNES
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAS 3 01116 **UNIV OF TOLEDO** **7746**
 AEROELASTIC MODELING AND ANALYSIS OF UEET FAN AND
 COMPRESSOR DESIGN
 06/18/2001 - 09/18/2004 FY01: \$55,000 Total: \$55,000
Prin. Invest.: T KEITH
Tech. Officer: GRC/J MINNS
CASE Category: 46 - MECHANICAL ENGR

NCC 3 513 **UNIV OF TOLEDO** **7747**
 IMPROVED MODEL FOR THE OXIDATIVE PYROLYSIS OF HYDROCARBON
 FUELS
 11/06/1996 - 03/31/2000 FY01: \$0 Total: \$370,903
Prin. Invest.: K J DEWITT
Tech. Officer: GRC/K P KUNDU
CASE Category: 12 - CHEMISTRY

NCC 3 524 **UNIV OF TOLEDO** **7748**
 COMPUTATIONAL SIMULATION OF COMPOSITE BEHAVIOR
 12/26/1996 - 12/05/2001 FY01: \$138,287 Total: \$585,527
Prin. Invest.: T G KEITH
Tech. Officer: GRC/P MURTHY
CASE Category: 49 - ENGINEERING, OTHER

NCC 3 527 **UNIV OF TOLEDO** **7749**
 AEROELASTIC ANALYSIS FOR AEROPROPULSION APPLICATIO NS
 12/26/1996 - 06/30/2001 FY01: \$0 Total: \$234,068
Prin. Invest.: T G KEITH, JR.
Tech. Officer: GRC/O MEHMED, GRC/G L STEFKO
CASE Category: 46 - MECHANICAL ENGR

NCC 3 596 **UNIV OF TOLEDO** **7750**
 APPLICATION OF AEROELASTIC SOLVERS BASED ON NAVIER -STOKES
 EQUATIONS
 01/14/1998 - 06/30/2000 FY01: \$0 Total: \$205,706
Prin. Invest.: T G KEITH
Tech. Officer: GRC/D JANETZKE
CASE Category: 41 - AERONAUTICAL ENGR

NCC 3 605 **UNIV OF TOLEDO** **7751**
 AEROELASTIC STABILITY AND RESPONSE OF ROTATING STR UCTURES
 04/03/1998 - 02/08/2002 FY01: \$80,000 Total: \$403,759
Prin. Invest.: T KEITH
Tech. Officer: GRC/O MEHMED
CASE Category: 41 - AERONAUTICAL ENGR

NCC 3 717 **UNIV OF TOLEDO** **7752**
 MULTI-STAGE AEROELASTIC ANALYSIS FOR PROPULSION MULTI-STAGE
 AEROELASTIC ANALYSIS FOR PROPULSION
 06/29/1999 - 11/19/2001 FY01: \$45,001 Total: \$127,731
Prin. Invest.: T G KEITH, JR.
Tech. Officer: GRC/O MEHMED
CASE Category: 46 - MECHANICAL ENGR

NCC 3 719 **UNIV OF TOLEDO** **7753**
 CENTRIFUGAL COMPRESSOR AEROELASTIC ANALYSIS CODEE
 CENTRIFUGAL COMPRESSOR AEROELASTIC ANALYSISCODEE
 06/24/1999 - 10/31/2001 FY01: \$49,999 Total: \$168,729
Prin. Invest.: T G KEITH
Tech. Officer: GRC/D C JANETZKE
CASE Category: 49 - ENGINEERING, OTHER

NCC 3 774 **UNIV OF TOLEDO** **7754**
 ACTIVE CONTROL ANALYSIS FOR AEROELASTIC INSTABILIT IES IN TURBO-
 MACHINES
 02/14/2000 - 11/01/2001 FY01: \$82,458 Total: \$115,916
Prin. Invest.: T KEITH
Tech. Officer: GRC/D JANETZKE
CASE Category: 49 - ENGINEERING, OTHER

NCC 3 855 **UNIV OF TOLEDO** **7755**
 NEXT GENERATION OF HALL THRUSTERS FOR SPACE PROPULSION
 01/25/2001 - 01/18/2002 FY01: \$147,162 Total: \$147,162
Prin. Invest.: T G KEITH
Tech. Officer: GRC/D REDDY
CASE Category: 13 - PHYSICS

NCC 3 881 **UNIV OF TOLEDO** **7756**
 MICROWAVE LOW NOISE AMPLIFIER USING SILICON GERMAN IUM NANO-
 TECHNOLOGY
 03/26/2001 - 03/01/2002 FY01: \$79,632 Total: \$79,632
Prin. Invest.: V J KAPOOR
Tech. Officer: GRC/G E PONCHAK
CASE Category: 45 - ELECTRICAL ENGR

NCC 3 907 **UNIV OF TOLEDO** **7757**
 NOVEL DAMPING CONCEPTS FOR MECHANICAL BACKUP BEARI NGS AND
 PASSIVE MAGNETICALLY SUSPENDED ROTORS
 08/02/2001 - 07/31/2002 FY01: \$35,000 Total: \$35,000
Prin. Invest.: T G KEITH
Tech. Officer: GRC/K MCLALLIN
CASE Category: 46 - MECHANICAL ENGR

NCC 3 916 **UNIV OF TOLEDO** **7758**
 TECHNOLOGY VALIDATION AND RISK REDUCTION RESEARCH FOR
 FLYWHEEL TECHNOLOGY
 09/20/2001 - 12/06/2001 FY01: \$43,122 Total: \$43,122
Prin. Invest.: T G KEITH
Tech. Officer: GRC/R BEACH
CASE Category: 45 - ELECTRICAL ENGR

NCC 8 196 UNIV OF TOLEDO 7759
 USE OF FLUORESCENCE SPECTROSCOPY AND X-RAY DIFFRACTION IN
 INVEST. OF PROTIEN CRYSTAL GROWTH
 11/17/1999 - 11/11/2000 FY01: \$0 Total: \$55,000
Prin. Invest.: A NADARAJAH
Tech. Officer: MSFC/M PUSEY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NGT 3 52342 UNIV OF TOLEDO 7760
 MICROMACHINED CANTILEVERED TRANSMISSION LINE SWITC HES FOR
 MICROWAVE APPLICATIONS
 07/18/1998 - 10/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: D J KAPOOR
Tech. Officer: GRC/D MONTEGANI
CASE Category: 49 - ENGINEERING, OTHER

NGT 3 52375 UNIV OF TOLEDO 7761
 GRADUATE STUDENT RESEARCH
 06/07/2001 - 06/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: V J KAPOOR
Tech. Officer: GRC/F J MONTEGANI
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2301 WILBERFORCE UNIV 7762
 STUDENT OUTREACH WITH RENEWABLE ENERGY TECHNOLOGY (SORET)
 CONSORTIUM
 11/05/1999 - 10/28/2002 FY01: \$299,957 Total: \$599,915
Prin. Invest.: D R BUFFINGER
Tech. Officer: GRC/A F HEPP
CASE Category: 49 - ENGINEERING, OTHER

NAG 2 1237 WRIGHT STATE UNIV 7763
 ROLES FOR TECHNOLOGY IN THE FACILITATION OF DISTRU BUTED WORK
 IN COMPLEX DYNAMIC DOMAINS
 07/16/1998 - 10/31/2000 FY01: \$0 Total: \$142,295
Prin. Invest.: V L SHALIN
Tech. Officer: ARC/W J CLANCEY
CASE Category: 22 - COMPUTER SCIENCE

NAG 3 2637 WRIGHT STATE UNIV 7764
 DEFECTS IN AIGAN/GAN HEMT DEVICES DEFECTS IN AIGAN/GAN HEMT
 DEVICES
 06/18/2001 - 06/30/2002 FY01: \$119,269 Total: \$119,269
Prin. Invest.: D C LOOK
Tech. Officer: GRC/J FREEMAN
CASE Category: 45 - ELECTRICAL ENGR

NAG 5 4188 WRIGHT STATE UNIV 7765
 MODEL STUDIES OF EXCITED STATES OF N2 AND N2+ IN T IONOSPHERE
 03/27/1997 - 03/31/2002 FY01: \$0 Total: \$209,608
Prin. Invest.: D L FOX
Tech. Officer: GSFC/M M MELLOTT, SR
CASE Category: 13 - PHYSICS

NCC 2 1203 WRIGHT STATE UNIV 7766
 ROLES FOR TECHNOLOGY IN THE FACILITATION OF DISTRI BUTED WORK
 IN COMPLEX DYNAMIC DOMAINS
 09/15/2000 - 09/14/2001 FY01: \$34,232 Total: \$122,261
Prin. Invest.: V L SHALIN
Tech. Officer: ARC/W J CLANCEY
CASE Category: 22 - COMPUTER SCIENCE

NGT 5 30091 WRIGHT STATE UNIV 7767
 AEROSPACE MEDICINE TRAINING PROGRAM
 09/11/1997 - 12/30/2001 FY01: \$190,000 Total: \$2,058,212
Prin. Invest.: S R MOHLER
Tech. Officer: GSFC/R J WILLIAMS
CASE Category: 59 - LIFE SCIENCE, OTHER

NGT 5 50213 WRIGHT STATE UNIV 7768
 THREE-DIMENSIONAL AUDIO PRESENTATION SYSTEM EFFECT IVENESS
 INHYPERGRAVITY AND HYPOGRAVIT
 07/22/1998 - 08/31/2001 FY01: \$0 Total: \$44,000
Prin. Invest.: R H GILKEY
Tech. Officer: HQ/A NURRIDIN
CASE Category: 69 - PSYCHOLOGY, OTHER

OKLAHOMA

NAG 3 1852 OKLAHOMA STATE UNIV 7769
 STUDIES OF PARTICLES SEDIMENTATION BY NOVEL SCATTE RING TECH-
 HNIQUE
 05/01/1996 - 04/30/2002 FY01: \$0 Total: \$399,992
Prin. Invest.: O TONG, B ACKERSON, NONE
Tech. Officer: GRC/B SINGH
CASE Category: 13 - PHYSICS

NAG 4 176 OKLAHOMA STATE UNIV 7770
 CFD AEROSERVOELASTIC & FLIGHT DYNAMICS ANALYSIS
 09/16/1999 - 09/16/2000 FY01: \$0 Total: \$55,607
Prin. Invest.: A ARENA, JR.
Tech. Officer: DFRC/K K GUPTA
CASE Category: 41 - AERONAUTICAL ENGR

NAG 4 216 OKLAHOMA STATE UNIV 7771
 CFD-BASED AEROSERVOELASTIC AND FLIGHT DYNAMICS ANA LYSIS OF A
 FLIGHT RESEARCH VEHICLE
 01/11/2001 - 11/30/2001 FY01: \$59,995 Total: \$59,995
Prin. Invest.: D S ARENA
Tech. Officer: DFRC/K K GUPTA
CASE Category: 41 - AERONAUTICAL ENGR

NAG 5 7451 OKLAHOMA STATE UNIV 7772
 TERRESTRIAL ENVIRONMENTAL VARIABLES DERIVED FROM E OS PLAT-
 FORM SENSORS
 07/09/1998 - 07/31/2001 FY01: \$0 Total: \$47,226
Prin. Invest.: S J STADLER
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 9 1159 OKLAHOMA STATE UNIV 7773
 ROLE OF VITAMIN E IN PREVENTING BOND DAMAGE
 09/29/1999 - 06/30/2001 FY01: \$0 Total: \$206,262
Prin. Invest.: B J STOECKER
Tech. Officer: JSC/C W LLOYD
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 9 1332 OKLAHOMA STATE UNIV 7774
 MONOLITHIC INTERGRATED RADIATION_SENSOR USING STIMULATED
 LUMINESCENCE FROM ALUMINA
 07/17/2001 - 07/13/2004 FY01: \$468,398 Total: \$468,398
 Prin. Invest.: S MCKEEVER
 Tech. Officer: JSC/M GOLIGHTLY
 CASE Category: 41 - AERONAUTICAL ENGR

NASW 5043 OKLAHOMA STATE UNIV 7775
 OPERATION OF AEROSPACE EDUCATION SERVICES PROGRAM
 09/25/1995 - 05/31/2001 FY01: \$3,099,752 Total: \$35,209,327
 Prin. Invest.: K WIGGINS
 Tech. Officer: HQ/L BILBROUGH
 CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 3 903 OKLAHOMA STATE UNIV 7776
 INFRARED AVIONICS SIGNAL DISTRIBUTION: (PHASE 2: EXPERIMENT
 SETUP AND VERIFICATION)
 07/13/2001 - 02/19/2002 FY01: \$29,882 Total: \$29,882
 Prin. Invest.: M ATIQUZZAMAN
 Tech. Officer: GRC/D NGO
 CASE Category: 45 - ELECTRICAL ENGR

NCC 5 185 OKLAHOMA STATE UNIV 7777
 TEACHING FROM SPACE PROGRAM
 04/03/1997 - 11/30/2001 FY01: \$855,248 Total: \$3,984,243
 Prin. Invest.: K E WIGGINS
 Tech. Officer: GSFC/P L MOUNTJOY
 CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 561 OKLAHOMA STATE UNIV 7778
 AEROSPACE EDUCATION SERVICES PROGRAM
 06/28/2001 - 05/31/2002 FY01: \$3,000,000 Total: \$3,000,000
 Prin. Invest.: T COLLINS
 Tech. Officer: GSFC/L BILLBROUGH
 CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 4 52412 OKLAHOMA STATE UNIV 7779
 AEROSEROELASTIC AND FLIGHT DYNAMICS
 05/12/1999 - 06/30/2001 FY01: \$0 Total: \$44,000
 Prin. Invest.: A ARENA
 Tech. Officer: DFRC/K GUPTA
 CASE Category: 41 - AERONAUTICAL ENGR

NGT 4 52425 OKLAHOMA STATE UNIV 7780
 (GSRP) OPEN PORT STABILIZED SENSOR SYSTEM AEROSERV OELASTIC
 PREDICTION WITH COMPARISONS TO FLIGHT TE
 07/16/2001 - 07/31/2002 FY01: \$22,000 Total: \$22,000
 Prin. Invest.: D S ARENA
 Tech. Officer: DFRC/K K GUPTA
 CASE Category: 41 - AERONAUTICAL ENGR

NAG 5 7378 ORAL ROBERTS UNIV 7781
 EXPERIMENTAL APPARATUS TO TEST THE STABILITY OF SP INNING
 SPACECRAFT UNDER THRUST
 05/06/1998 - 05/14/2001 FY01: \$0 Total: \$48,000
 Prin. Invest.: D HALSMER
 Tech. Officer: GSFC/R HARMAN
 CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 1 2178 UNIV OF OKLAHOMA - NORMAN 7782
 A STUDY ON EMBEDDED HIGH-SPEED WIRELESS TELEMETRY SYSTEMS
 FOR WIND TUNNEL APPLICATIONS, PHASE II
 03/31/1999 - 12/31/2001 FY01: \$0 Total: \$221,218
 Prin. Invest.: J R CRUZ
 Tech. Officer: LARC/S K KAHNG
 CASE Category: 45 - ELECTRICAL ENGR

NAG 2 1427 UNIV OF OKLAHOMA - NORMAN 7783
 EFFECT OF HYPERGRAVITY, VIBRATION, & RADIATION ON GENETIC &
 DEVELOPMENTAL STABILITY IN DROSOPHILIA..
 08/03/2000 - 07/31/2002 FY01: \$244,853 Total: \$511,604
 Prin. Invest.: J T THOMPSON, JR
 Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
 CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 3 2388 UNIV OF OKLAHOMA - NORMAN 7784
 GRAVITATIONAL EFFECTS ON FLOW INSTABILITY AND TRAN SITION IN LOW
 DENSITY JETS
 04/10/2000 - 11/30/2003 FY01: \$90,250 Total: \$140,250
 Prin. Invest.: A K AGRAWAL
 Tech. Officer: GRC/F P CHIARAMONTE
 CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2528 UNIV OF OKLAHOMA - NORMAN 7785
 SCTP OVER LONG BANDWIDTH DELAY PRODUCT NETWORKS
 01/22/2001 - 01/01/2002 FY01: \$75,243 Total: \$75,243
 Prin. Invest.: D ATIQUZZAMAN
 Tech. Officer: GRC/W D IVANCIC/D FOLTZ
 CASE Category: 22 - COMPUTER SCIENCE

NAG 5 3505 UNIV OF OKLAHOMA - NORMAN 7786
 MULTIWAVELENGTH STUDIES OF SUPERNOVAE
 11/25/1996 - 09/30/2001 FY01: \$0 Total: \$250,000
 Prin. Invest.: E A BARON
 Tech. Officer: GSFC/D K WEST
 CASE Category: 11 - ASTRONOMY

NAG 5 9165 UNIV OF OKLAHOMA - NORMAN 7787
 COMPREHENSIVE SUPERNOVA SPECTROSCOPY - ADP - 99
 03/31/2000 - 03/31/2002 FY01: \$40,000 Total: \$90,000
 Prin. Invest.: D BRANCH
 Tech. Officer: GSFC/R J OLIVERSEN
 CASE Category: 11 - ASTRONOMY

NAG 5 9745 UNIV OF OKLAHOMA - NORMAN 7788
 X-RAY SPECTRAL & VARIABILITY STUDIES OF AGN ADP 99
 06/29/2000 - 08/14/2002 FY01: \$0 Total: \$50,440
 Prin. Invest.: K M LEIGHLY
 Tech. Officer: GSFC/R J OLIVERSEN
 CASE Category: 11 - ASTRONOMY

NAG 5 9991 UNIV OF OKLAHOMA - NORMAN 7789
 NGC 6300: A NEW, BRIGHT, COMPTON-THICK SEYFERT 2 GALAXY
 09/14/2000 - 08/31/2002 FY01: \$12,433 Total: \$25,433
 Prin. Invest.: K M LEIGHLY
 Tech. Officer: GSFC/R MUSHOTZKY
 CASE Category: 11 - ASTRONOMY

NAG 5 10048 UNIV OF OKLAHOMA - NORMAN 7790
 FAR UV SPECTROSCOPY OF NARROW-LINE SEYFERT 1 GALAXY RE
 1034+39
 10/04/2000 - 08/15/2002 FY01: \$35,500 Total: \$35,500
Prin. Invest.: K LEIGHLY
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 10171 UNIV OF OKLAHOMA - NORMAN 7791
 NARROW-LINE SEYFERT 1 GALAXIES (LTSA 98)
 12/18/2000 - 05/31/2002 FY01: \$83,240 Total: \$83,240
Prin. Invest.: K M LEIGHLY
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 10366 UNIV OF OKLAHOMA - NORMAN 7792
 WIND EMISSION IN NARROW-LINE SEYFERT 1 GALAXIES (FUSE 00)
 02/05/2001 - 02/14/2002 FY01: \$70,000 Total: \$70,000
Prin. Invest.: K M LEIGHLY
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 8 1271 UNIV OF OKLAHOMA - NORMAN 7793
 MICROGRAVITY IMPREPNATION OF FIBER PREFORMS
 05/02/1996 - 05/15/2000 FY01: \$0 Total: \$400,000
Prin. Invest.: M C ALTAN, B GRADY, F C LAI
Tech. Officer: MSFC/D R WOODARD, MSFC/R W ALLEN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 9 1280 UNIV OF OKLAHOMA - NORMAN 7794
 INTEGRATED CREW PERFORMANCE ASSESMENT AND TRAIING
 02/02/2001 - 12/31/2003 FY01: \$143,759 Total: \$143,759
Prin. Invest.: R SCHLEGEL
Tech. Officer: JSC/B WOOLFORD
CASE Category: 56 - MEDICL

NCC 2 5382 UNIV OF OKLAHOMA - NORMAN 7795
 MINERALS & SUBMICROMETER FORMS AS BIOSIGNATURES
 05/16/2000 - 05/14/2002 FY01: \$24,607 Total: \$30,000
Prin. Invest.: R D ELMORE
Tech. Officer: ARC/D BLAKE
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NCC 3 787 UNIV OF OKLAHOMA - NORMAN 7796
 INSTABILITY AND BREAKUP OF GAS JETS INJECTED IN CO FLOWING
 LIQUIDS
 03/28/2000 - 11/30/2003 FY01: \$80,000 Total: \$125,000
Prin. Invest.: D N PARTHASAEATHY
Tech. Officer: GRC/J B MCQUILLEN
CASE Category: 49 - ENGINEERING, OTHER

NCC 3 791 UNIV OF OKLAHOMA - NORMAN 7797
 ENHANCEMENT OF MICROGRAVITY FIBER IMPREGNATION USI NG ELEC-
 TROHYDYNAMIC INDUCTION PUMPING
 04/11/2000 - 05/31/2001 FY01: \$0 Total: \$44,997
Prin. Invest.: D C LAI
Tech. Officer: GRC/H C DEGROH
CASE Category: 49 - ENGINEERING, OTHER

NCC 5 171 UNIV OF OKLAHOMA - NORMAN 7798
 TO SUPPORT RESEARCH UNDER THE EXPERIMENTAL PROGRAM
 COMPETITIVE RESEARCH
 12/16/1996 - 11/14/2001 FY01: \$500,000 Total: \$2,500,000
Prin. Invest.: V DUCA-SNOWDEN
Tech. Officer: GSFC/J DASCH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 398 UNIV OF OKLAHOMA - NORMAN 7799
 NASA EPSCOR: PREPARATORY GRANT PROPOSAL
 05/14/1999 - 09/30/2001 FY01: \$0 Total: \$448,800
Prin. Invest.: V DUCA-SNOWDEN
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 586 UNIV OF OKLAHOMA - NORMAN 7800
 OKLAHOMA NASA/EPSCOR PROGRAM
 08/31/2001 - 08/31/2004 FY01: \$310,813 Total: \$310,813
Prin. Invest.: V DUCA-SNOWDEN
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30151 UNIV OF OKLAHOMA - NORMAN 7801
 INVESTIGATION OF LAND-ATMOSPHERE INTERACTIONS USIN G THE
 OKLAHOMAMESONET/NASA EARTH SCIENCE
 09/01/1998 - 08/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: K CRAWFORD
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 40013 UNIV OF OKLAHOMA - NORMAN 7802
 TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE
 AND FELLOWSHIP PROGRAM.
 01/30/1997 - 02/28/2001 FY01: \$0 Total: \$807,500
Prin. Invest.: V DUCA
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40111 UNIV OF OKLAHOMA - NORMAN 7803
 OKLAHOMA SPACE GRANT COLLEGE & FELLOWSHIP PROGRAM
 03/06/2001 - 02/28/2002 FY01: \$212,500 Total: \$212,500
Prin. Invest.: V DUCA-SNOWDEN
Tech. Officer: GSFC/D D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

OREGON

NCC 2 1190 OREGON GRAD INST OF SCI & TECH 7804
 IMPLEMENTATION OF SENSOR FUSION ALGORITHMS IN MATL AB
 07/25/2000 - 03/31/2001 FY01: -\$3,705 Total: \$30,000
Prin. Invest.: M PAVEL
Tech. Officer: ARC/A J AHUMADA
CASE Category: 69 - PSYCHOLOGY, OTHER

NCC 2 1215 OREGON GRAD INST OF SCI & TECH 7805
 HUMAN ERROR MODELING - PROCESS & EVALUATION
 03/05/2001 - 10/31/2001 FY01: \$70,112 Total: \$70,112
Prin. Invest.: M PAVEL
Tech. Officer: ARC/B L BEARD
CASE Category: 69 - PSYCHOLOGY, OTHER

NCC 2 1218 OREGON GRAD INST OF SCI & TECH 7806
 ROBUST INTELLIGENT SYSTEMS BASED ON INFORMATION FU SION
 03/14/2001 – 02/28/2002 FY01: \$269,000 Total: \$269,000
Prin. Invest.: M PAVEL
Tech. Officer: ARC/J SKILES
CASE Category: 22 – COMPUTER SCIENCE

NCC 2 1253 OREGON GRAD INST OF SCI & TECH 7807
 BIOLOGICAL COMPUTING FOR ROBOT NAVIGATION & CONTROL
 04/08/2001 – 02/28/2002 FY01: \$336,000 Total: \$336,000
Prin. Invest.: M A JABRI
Tech. Officer: ARC/T R GOVINDAN
CASE Category: 22 – COMPUTER SCIENCE

NCC 2 1264 OREGON GRAD INST OF SCI & TECH 7808
 MODEL BIASED, DATA DRIVEN ADAPTIVE FAILURE PREDICTION
 05/21/2001 – 02/28/2002 FY01: \$120,000 Total: \$120,000
Prin. Invest.: T LEEN
Tech. Officer: ARC/I TUMER
CASE Category: 22 – COMPUTER SCIENCE

NAG 2 1199 OREGON HEALTH SCIENCES UNIV 7809
 HOW DO CELL DIVISION PLANCES SPECIFY REGIONAL GENE EXPRES-
 SION PATTERNS IN EARLYEMBRYOS?
 04/02/1998 – 04/30/2002 FY01: \$0 Total: \$490,495
Prin. Invest.: M V DANILCHIK
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 2 1287 OREGON STATE UNIV 7810
 TRAINING PILOTS TO PRIORITIZE TASKS
 02/01/1999 – 02/14/2002 FY01: \$73,243 Total: \$192,520
Prin. Invest.: K H FUNK
Tech. Officer: ARC/R K DISMUKES
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 2 1341 OREGON STATE UNIV 7811
 INTERACTIONS BETWEEN GRAVITY & LIGHT IN DETERMINING PLANTFORM
 ANALYSIS USING THE LAXY-2 MUTANT TOMA
 07/21/1999 – 08/31/2002 FY01: \$163,428 Total: \$413,939
Prin. Invest.: T L LOMAX
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 3 2463 OREGON STATE UNIV 7812
 DEVELOPMENT AND EVALUATION OF HIGH TEMPERATURE AND SPECIAL-
 IZED FIBER BRAGG GRATINGS
 06/15/2000 – 09/30/2001 FY01: \$29,956 Total: \$47,953
Prin. Invest.: T K PLANT
Tech. Officer: GRC/G ADAMOVSKY
CASE Category: 45 – ELECTRICAL ENGR

NAG 5 4947 OREGON STATE UNIV 7813
 "COUPLED ATMOSPHERE/OCEAN PROCESSES & PRIMARY PROD IN THE
 SOUTHERN OCEAN"
 06/23/1997 – 06/30/2001 FY01: \$412,000 Total: \$3,300,000
Prin. Invest.: M R ABBOTT
Tech. Officer: GSFC/J A MARRA
CASE Category: 33 – OCEANOGRAPHY

NAG 5 5311 OREGON STATE UNIV 7814
 ANALYSIS OF BIO-OPTICAL SIGNATURES FROM AUTONOMOUS ADOS
 LAGRANGIAN DRIFTERS WITH SEAWIFS
 01/23/2001 – 01/31/2002 FY01: \$16,497 Total: \$16,497
Prin. Invest.: R M LETELIER
Tech. Officer: GSFC/J R MOISAN
CASE Category: 33 – OCEANOGRAPHY

NAG 5 6156 OREGON STATE UNIV 7815
 EFFECT OF OCEAN TIDES ON THE LONG TERM ORBITAL AND OF THE
 EARTH-MOON SYSTEM
 09/11/1997 – 09/14/2000 FY01: \$0 Total: \$60,000
Prin. Invest.: G D EGBERT, NONE
Tech. Officer: GSFC/B BILLS
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 6189 OREGON STATE UNIV 7816
 WAVES AND INSTABILITY IN THE ATMOSPHERE OF MARS
 02/04/1998 – 06/30/2001 FY01: \$0 Total: \$250,105
Prin. Invest.: D BARNES
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 6242 OREGON STATE UNIV 7817
 MODELING CARBON DYNAMICS AND THEIR ECONOMIC IMPLIC REGIONS:
 PACIFIC NORTHWESTERN USA AND NORTHWESTER
 08/19/1997 – 08/31/2001 FY01: \$0 Total: \$580,000
Prin. Invest.: D E HARMON
Tech. Officer: GSFC/G C GUTMAN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6530 OREGON STATE UNIV 7818
 THE IMPROVED ALGORITHM FOR ESTIMATING THE ATMOSPHERIC
 EFFECT IN SPACE MEASUREMENTS OF THE MARINE
 12/09/1997 – 10/31/2001 FY01: \$0 Total: \$387,677
Prin. Invest.: K SHIFRIN
Tech. Officer: GSFC/J CAMPBELL
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6642 OREGON STATE UNIV 7819
 COMPREHENSIVE VALIDATION OF SATELLITE OCEAN WINDS: ADVANCED
 TECHNIQUES AND MULTI-INSTRUMENT ANALYS
 11/20/1997 – 04/30/2001 FY01: \$0 Total: \$585,985
Prin. Invest.: D FREILICH
Tech. Officer: GSFC/J C DODGE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 6647 OREGON STATE UNIV 7820
 RELATIONSHIPS BETWEEN THE INHERENT OPTICAL PROPERTIES
 (IOP), BIOGEOCHEMICAL PARAMETERS A
 12/04/1997 – 11/30/2000 FY01: \$0 Total: \$271,348
Prin. Invest.: J R ZANEVELD
Tech. Officer: GSFC/J CAMPBELL
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 7416 OREGON STATE UNIV 7821
 SPATIALLY-AVERAGED FLUXES OF CO2, HEAT AND MOISTURE
 05/21/1998 – 12/31/2000 FY01: \$0 Total: \$126,866
Prin. Invest.: L MAHRT
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 7506 **OREGON STATE UNIV** **7822**
 ASSESSING POTENTIAL AND ACTUAL FOREST PRODUCTIVITY ACROSS
 SOUTHWESTERN OREGON WITH TWO SIMULATION
 06/26/1998 - 06/30/2002 FY01: \$28,567 Total: \$260,910
Prin. Invest.: R H WARING *Prin. Invest.:* NONE
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7531 **OREGON STATE UNIV** **7823**
 EVALUATING MODEL PREDICTIONS OF CO2 AND WATER VAPO R
 EXCHANGE WITH FLUX MEASUREMENTS IN A POND
 06/11/1998 - 06/30/2002 FY01: \$114,209 Total: \$651,594
Prin. Invest.: M H UNSWORTH
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7551 **OREGON STATE UNIV** **7824**
 REDUCING UNCERTAINTY IN CARBON AND ENERGY EXCHANGE OVER
 PINE FORESTS: INFLUENCE OF AGE, MANAGEMENT
 06/22/1998 - 06/30/2002 FY01: \$106,603 Total: \$841,355
Prin. Invest.: B LAW
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7686 **OREGON STATE UNIV** **7825**
 LIMITS TO CLOUD SUSCEPTIBILITY.
 09/15/1998 - 09/30/2001 FY01: \$98,000 Total: \$294,000
Prin. Invest.: J A COAKLEY, JR.
Tech. Officer: GSFC/M I MISHCHENKO
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7856 **OREGON STATE UNIV** **7826**
 BIGFOOT--CHARACTERIZING LAND COVER, LAI, AND NPP AT THE LAND-
 SCAPE SCALE FOR EOS/MODIS VALIDATION
 12/14/1998 - 11/30/2001 FY01: \$238,976 Total: \$711,925
Prin. Invest.: W B COHEN
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8261 **OREGON STATE UNIV** **7827**
 CONSTRUCTION TO COMPLETE THE ENVIRONMENTAL COMPUTING
 CENTER
 02/17/1999 - 01/31/2002 FY01: \$0 Total: \$2,000,000
Prin. Invest.: G DALRYMPLE
Tech. Officer: GSFC/R A SCHIFFER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 8315 **OREGON STATE UNIV** **7828**
 INTEGRATING MICROWAVE AND HYPERSPECTRAL REMOTE SENSING FOR
 ESTIMATING VEGETATION STRUCTURE AND BIOMA
 03/24/1999 - 02/28/2002 FY01: \$39,345 Total: \$111,509
Prin. Invest.: B E LAW
Tech. Officer: HQ/D WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8400 **OREGON STATE UNIV** **7829**
 USING DISTRIBUTED OBJECT-BASED FRAMEWORKS TO SUPPORT EOS
 DATA ACCESS AND VISUALIZATION
 05/20/1999 - 05/31/2002 FY01: \$0 Total: \$127,000
Prin. Invest.: M S ABBOTT
Tech. Officer: GSFC/K MOE
CASE Category: 22 - COMPUTER SCIENCE

NAG 5 8601 **OREGON STATE UNIV** **7830**
 SPATIAL VARIATION OF SURFACE MOISTURE FLUXES IN SPG
 06/17/1999 - 06/14/2002 FY01: \$60,116 Total: \$159,902
Prin. Invest.: L MAHRT
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8969 **OREGON STATE UNIV** **7831**
 EOS TERRA DIRECT BROADCAST RECEIVING STATION: SUPPORT FOR
 OCEAN & TERRESTRIAL ECOLOGY
 01/24/2000 - 12/31/2001 FY01: \$0 Total: \$550,000
Prin. Invest.: M R ABBOTT
Tech. Officer: GSFC/J DODGE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9159 **OREGON STATE UNIV** **7832**
 JASON-1 INVESTIGATION: ALTIMETRIC STUDIES OF OCEAN TIDAL
 DYNAMICS
 03/06/2000 - 03/31/2002 FY01: \$62,791 Total: \$114,791
Prin. Invest.: G D EGBERT
Tech. Officer: GSFC/R RAY
CASE Category: 33 - OCEANOGRAPHY

NAG 5 9428 **OREGON STATE UNIV** **7833**
 SYNTHESIS & ALTERATION OF HIGHER MOLECULAR WEIGHT ORGANIC
 COMPOUNDS UNDER HYDROTHERMAL CONDITIONS
 04/11/2000 - 04/14/2002 FY01: \$100,000 Total: \$194,200
Prin. Invest.: B T SIMONEIT
Tech. Officer: GSFC/M MEYER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9446 **OREGON STATE UNIV** **7834**
 MICROBES IN SILICATE ROCKS ON EARTH: ANALOGUES OF EXTANT &
 FOSSIL MICROBIAL HABITATS ON OTHER
 04/13/2000 - 04/14/2002 FY01: \$51,000 Total: \$99,042
Prin. Invest.: M FISK
Tech. Officer: GSFC/M MEYER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9677 **OREGON STATE UNIV** **7835**
 SUPPORT FOR THE GOCF BOREAL FOREST WORKSHOP, NASA SIBERIAN
 NETWORK, AND EWG BOREAL FOREST PROJECT
 06/02/2000 - 10/31/2001 FY01: \$0 Total: \$38,641
Prin. Invest.: O N KRANKINA
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9771 **OREGON STATE UNIV** **7836**
 STUDIES OF MGS TES AND MPF MET DATA
 06/29/2000 - 06/30/2002 FY01: \$59,600 Total: \$119,200
Prin. Invest.: J R BARNES
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 10614 **OREGON STATE UNIV** **7837**
 GOFCS SUPPORT, WORKSHOP IN RUSSIA
 03/16/2001 – 08/31/2002 FY01: \$39,173 Total: \$39,173
Prin. Invest.: O N KRANKINA
Tech. Officer: GSFC/G GUTMAN
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10623 **OREGON STATE UNIV** **7838**
 THE REFINEMENT OF THE ATMOSPHERIC CORRECTION ALGORITHM FOR
 SPACE-DERIVING THE MARINE CHLOROPHYLL
 03/19/2001 – 03/14/2002 FY01: \$145,495 Total: \$145,495
Prin. Invest.: K S SHIFRIN
Prin. Invest.: NONE
Tech. Officer: GSFC/J MARRA
CASE Category: 33 – OCEANOGRAPHY

NAG 5 11046 **OREGON STATE UNIV** **7839**
 DYNAMICS AND CIRCULATION OF THE MARTIAN ATMOSPHERE
 06/20/2001 – 06/30/2002 FY01: \$74,000 Total: \$74,000
Prin. Invest.: J BARNES
Tech. Officer: GSFC/D BOGAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 11105 **OREGON STATE UNIV** **7840**
 ADVANCED VALIDATION OF AMSR WIND SPEED MEASUREMENT USING
 BUOY, SCATTEROMETER, AND NWP SURFACE ANALYSIS
 07/13/2001 – 08/31/2002 FY01: \$28,809 Total: \$28,809
Prin. Invest.: M H FREILICH
Tech. Officer: GSFC/D STARR
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 11125 **OREGON STATE UNIV** **7841**
 COUPLED ATMOSPHERE/OCEAN PROCESSES AND PRIMARY PRO
 DUCATION IN THE SOUTHERN OCEAN
 08/01/2001 – 06/30/2003 FY01: \$270,027 Total: \$270,027
Prin. Invest.: M R ABBOTT
Tech. Officer: GSFC/J MARRA
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 11148 **OREGON STATE UNIV** **7842**
 A ONE-YEAR PILOT STUDY FOR THE INCLUSION OF ACTIVE OPTICAL
 SENSORS INTO PALACE FLOATS
 07/30/2001 – 07/31/2002 FY01: \$27,977 Total: \$27,977
Prin. Invest.: E BOSS
Tech. Officer: GSFC/J MARRA
CASE Category: 33 – OCEANOGRAPHY

NAG 5 11190 **OREGON STATE UNIV** **7843**
 ECOSYSTEMS STRUCTURE AND CARBON CYCLING IN THE NORTH
 PACIFIC: MODELING & DATA ASSIMILATION
 08/17/2001 – 08/31/2004 FY01: \$216,950 Total: \$216,950
Prin. Invest.: Y SPITZ
Tech. Officer: GSFC/J MARRA
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 11222 **OREGON STATE UNIV** **7844**
 LINKING IN-SITU MEASUREMENTS, REMOTE SENSING, AND MODELS TO
 VALIDATE MODIS PRODUCTS RELATED TO TH
 08/09/2001 – 07/31/2004 FY01: \$24,628 Total: \$24,628
Prin. Invest.: D P TURNER
Prin. Invest.: NONE
Tech. Officer: GSFC/D WICKLAND
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 11223 **OREGON STATE UNIV** **7845**
 USING REMOTE SENSING & IN SITU NETWORK OBSERVATIONS TO EVAL
 UATE & IMPROVE THE PERFORMANCE OF
 08/09/2001 – 07/31/2004 FY01: \$76,090 Total: \$76,090
Prin. Invest.: B LAW
Tech. Officer: GSFC/D WICKLAND
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 11231 **OREGON STATE UNIV** **7846**
 REGIONAL CARBON DIOXIDE FLUXES OVER HETEROGENEOUS TERRAIN
 08/13/2001 – 08/14/2004 FY01: \$184,525 Total: \$184,525
Prin. Invest.: L MAHRT
Tech. Officer: GSFC/D WICKLAND
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 11250 **OREGON STATE UNIV** **7847**
 DRIVING FORCES OF CHANGE IN REGIONAL CARBON STOCKS :
 COMPARISON OF THE WESTERN OREGON, AND ST. PET
 08/20/2001 – 08/14/2004 FY01: \$187,238 Total: \$187,238
Prin. Invest.: O KRANKINA
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAS 1 98140 **OREGON STATE UNIV** **7848**
 CHARACTERIZATION OF CLOUDS AND THE ANISOTROPY OF EMITTED AND
 REFLECTED RADIANCES
 10/29/1998 – 10/28/2002 FY01: \$212,826 Total: \$561,235
Prin. Invest.: J COAKLEY
Tech. Officer: LARC/B A WIELICKI, LARC/R L HUFFMAN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 1 99104 **OREGON STATE UNIV** **7849**
 DETERMINATION OF THE INDIRECT RADIATIVE FORCING DUE TO AERO
 SOLS
 05/17/1999 – 05/16/2002 FY01: \$10,850 Total: \$23,950
Prin. Invest.: J M COAKLEY, JR.
Tech. Officer: LARC/G GIBSON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 31360 **OREGON STATE UNIV** **7850**
 MODIS INVESTIGATION
 12/30/1991 – 12/14/2001 FY01: \$611,000 Total: \$4,737,000
Prin. Invest.: M R ABBOTT
Tech. Officer: GSFC/H OSEROFF
CASE Category: 33 – OCEANOGRAPHY

NAS 5 32965 **OREGON STATE UNIV** **7851**
 SEAWINDS PRINCIPAL INVESTIGATOR & SCIENCE TEAM ACTIVITIES
 09/15/1995 – 12/31/2004 FY01: \$2,243,955 Total: \$7,540,085
Prin. Invest.: D H FREILICH
Tech. Officer: GSFC/C RABER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 1102 **OREGON STATE UNIV** **7852**
 INVESTIGATION OF THE CIRCULATION OF THE MARTIAN ATMOSPHERE
 USING DYNAMICAL MODELS
 04/01/1999 – 12/31/2001 FY01: \$16,891 Total: \$49,306
Prin. Invest.: J R BARNES
Tech. Officer: ARC/R M HABERLE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 5427 **OREGON STATE UNIV** **7853**
 PREPARATION OF THE ZAPS INSTRUMENT PACKAGE FOR THE VAILULU MISSION
 03/09/2001 – 01/31/2002 FY01: \$15,000 Total: \$15,000
Prin. Invest.: G P KLINKHAMMER
Tech. Officer: ARC/M T FLYNN, ARC/C A STOCKER
CASE Category: 33 – OCEANOGRAPHY

NCC13 98004 **OREGON STATE UNIV** **7854**
 AFFILIATED RESEARCH CENTER PROGRAM SAME
 08/04/1998 – 06/30/2001 FY01: \$14,959 Total: \$398,292
Prin. Invest.: KIMERLING
Tech. Officer: SSC/N SOVIK
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 2 52245 **OREGON STATE UNIV** **7855**
 MESOSCALE MODEL OF THE MARTIAN ATMOSPHERE
 08/11/1998 – 08/14/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: J R BARNES
Tech. Officer: ARC/R M HABERLE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 5 96 **OREGON STATE UNIV** **7856**
 GLOBAL CLIMATE CHANGE EFFECTS ON CARBON SEQUESTRATION MEDIATED BY SOIL MICROORGANISMS
 08/20/1999 – 08/31/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: R P DICK, V GEWIN
Tech. Officer: GSFC/M WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 30181 **OREGON STATE UNIV** **7857**
 FUNCTIONAL GROUPING OF PLANTS IN FLORIDA SCRUB HABITAT/STUDENT: TAMMY FOSTER
 08/23/1999 – 08/31/2002 FY01: \$0 Total: \$44,000
Prin. Invest.: B BOND
Tech. Officer: GSFC/M Y WEI
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 30185 **OREGON STATE UNIV** **7858**
 RIGHT WHALE ECOLOGY IN THE NORTHWEST ATLANTIC OCEAN/STUDENT--MARK BAUMGARTNER
 08/19/1999 – 08/31/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: B MATE
Tech. Officer: GSFC/M WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 30214 **OREGON STATE UNIV** **7859**
 COMBINING FIELD MEASUREMENTS AND SATELLITE IMAGERY WITH A PROBABILISTIC MODEL TO QUANTIFY UNCERTAIN
 08/24/1999 – 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: W B COHEN
Tech. Officer: GSFC/M WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 5 30347 **OREGON STATE UNIV** **7860**
 ASYSTEMATIC STUDY OF THE OPTICAL PROPERTIES OF NON SPHERICAL OCEANIC PARTICLES/STUDENT: SEAN HERRING
 08/21/2000 – 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: W PEGAU
Tech. Officer: GSFC/M WEI
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 30387 **OREGON STATE UNIV** **7861**
 SCALING UP NOCTURNAL CO2 AND WATER VAPOR FLUXES WITH MICRO-METEOROLOGICAL NETWORKS/REINA NAKAMURA
 08/13/2001 – 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: L MAHRT
Tech. Officer: GSFC/W WEI
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 40022 **OREGON STATE UNIV** **7862**
 TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE AND FELLOWSHIP PROGRAM.
 02/13/1997 – 02/28/2001 FY01: -\$148,553 Total: \$802,197
Prin. Invest.: A C KLEIN
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 40103 **OREGON STATE UNIV** **7863**
 OREGON SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
 03/01/2001 – 02/28/2002 FY01: \$404,803 Total: \$404,803
Prin. Invest.: A C KLEIN
Tech. Officer: GSFC/D D DETROYE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 9579 **PORTLAND STATE UNIV** **7864**
 RECOGNIZING THE SIGNATURES OF HYPERTHERMOPHILIC BIOFILMS: GEYSERITES, EPITHERMAL DEPOSITS & ANCI
 05/10/2000 – 04/30/2002 FY01: \$109,020 Total: \$178,960
Prin. Invest.: S CADY
Tech. Officer: GSFC/M MEYER
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 11309 **PORTLAND STATE UNIV** **7865**
 ICE SHELVES AND LANDFAST ICE ON THE ANTARCTIC PERIMETER CHARACTERISTICS AND EFFECTS OF CLIMATE CHANGE
 08/30/2001 – 08/31/2003 FY01: \$10,300 Total: \$10,300
Prin. Invest.: C HULBE
Tech. Officer: GSFC/W ABDALATI
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 8 1283 **PORTLAND STATE UNIV** **7866**
 JOVE RESEARCH
 01/21/1997 – 08/31/2000 FY01: -\$1,028 Total: \$53,886
Prin. Invest.: A M FRASER
Tech. Officer: MSFC/J F DOWDY, MSFC/J R PRUITT
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 2 1152 **PORTLAND STATE UNIV** **7867**
 AN EXPLORATORY STUDY TO CHARACTERIZE AND EVALUATE IV & V ROI
 01/19/2000 – 01/14/2001 FY01: \$0 Total: \$94,228
Prin. Invest.: D M RAFFO
Tech. Officer: ARC/Y F SIAMAK
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 1 2010 **UNIV OF OREGON - EUGENE** **7868**
 ATMOSPHERIC AND SPECTROSCOPIC RESEARCH IN THE FAR INFRARED
 02/23/1998 – 02/21/2002 FY01: \$0 Total: \$112,000
Prin. Invest.: K PARK
Tech. Officer: LARC/I G NOLT
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 3 1934 UNIV OF OREGON - EUGENE 7869
 NUCLEATION OF QUANTIZED VORTICES FROM ROTATING SUPERFLUID DROPS
 08/05/1996 - 01/01/2001 FY01: \$10,000 Total: \$249,000
Prin. Invest.: D J DONNELLY
Tech. Officer: GRC/B S SINGH
CASE Category: 13 - PHYSICS

NAG 5 6109 UNIV OF OREGON - EUGENE 7870
 THE FORMATION AND EVOLUTION OF LSB GALAXIES
 07/24/1997 - 10/31/2001 FY01: \$0 Total: \$164,039
Prin. Invest.: D SCHOMBERT
Tech. Officer: GSFC/D GOLOMBEK
CASE Category: 11 - ASTRONOMY

NAG 5 8505 UNIV OF OREGON - EUGENE 7871
 INSTABILITIES IN PROTOSTELLAR STAR/DISK SYSTEMS (A TP - 98)
 05/10/1999 - 04/30/2002 FY01: \$27,513 Total: \$76,358
Prin. Invest.: J IMAMURA
Tech. Officer: GSFC/R K OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 10709 UNIV OF OREGON - EUGENE 7872
 ACCRETION FLOWS IN MAGNETIC WHITE DWARF SYSTEMS (ADP 2000)
 04/23/2001 - 04/30/2002 FY01: \$28,250 Total: \$28,250
Prin. Invest.: J IMAMURA
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 11300 UNIV OF OREGON - EUGENE 7873
 GALAXY PHOTOMETRY FOR NASA/IPAC EXTRAGALACTIC DATA BASE
 08/29/2001 - 08/31/2004 FY01: \$37,709 Total: \$37,709
Prin. Invest.: J SCHOMBERT
Tech. Officer: GSFC/P E HUNTER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 2 1089 UNIV OF OREGON - EUGENE 7874
 AFFECT & AERONAUTICAL DECISION-MAKING
 02/02/1999 - 01/14/2002 FY01: \$168,698 Total: \$368,313
Prin. Invest.: R MAURO
Tech. Officer: ARC/I BARSHI
CASE Category: 69 - PSYCHOLOGY, OTHER

NCC 2 5299 UNIV OF OREGON - EUGENE 7875
 THE EFFECT OF UV RADIATION ON THE ESTABLISHMENT & INTEGRITY OF MICROBIAL MATS
 07/11/2000 - 12/31/2000 FY01: \$0 Total: \$51,479
Prin. Invest.: R W CASTEBOLZ
Tech. Officer: ARC/B M BEBOUT, ARC/D J DES MARAIS
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NCC 2 5306 UNIV OF OREGON - EUGENE 7876
 CONSOLIDATED CULTURE COLLECTION OF MICROORGANISMS FOR EXTREME ENVIRONMENTS
 01/21/1999 - 12/31/2000 FY01: \$0 Total: \$83,000
Prin. Invest.: R W CASTENHOLZ
Tech. Officer: ARC/C P MCKAY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NCC 2 5409 UNIV OF OREGON - EUGENE 7877
 CULTURE COLLECTION OF MICRO-ORGANISMS FROM EXTREME ENVIRONMENTS & THE ROLE OF THE UV-SHIELDING PIGMENT
 11/22/2000 - 12/31/2001 FY01: \$93,764 Total: \$93,764
Prin. Invest.: R W CASTENHOLZ
Tech. Officer: ARC/B M BEBATH, ARC/M L FONDA
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NCC 3 880 UNIV OF OREGON - EUGENE 7878
 DEVELOPMENT OF A SELF-PACED COMPUTER BASED TRAINING PROGRAM ON IN-FLIGHT ICING
 03/23/2001 - 06/30/2002 FY01: \$210,874 Total: \$210,874
Prin. Invest.: R MAURO
Tech. Officer: GRC/T H BOND
CASE Category: 41 - AERONAUTICAL ENGR

NGT 5 50107 UNIV OF OREGON - EUGENE 7879
 POTENTIAL VEGETATION CHANGE IN NORTH AMERICA IN RELATION TO WARMING
 09/06/1997 - 02/28/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: P BARTLEIN
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

PENNSYLVANIA

NAG 5 3617 ALLEGHENY COLLEGE 7880
 ASSESSING THE IMPACTS OF EL NIÑO CLIMATIC EVENTS ON PHILIPPINE ECONOMY
 02/21/1997 - 12/14/1999 FY01: -\$4,077 Total: \$131,064
Prin. Invest.: D BENSEL, NONE
Tech. Officer: GSFC/A J TUYAHOV
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7964 BLOOMSBURG UNIV 7881
 REMOTE SENSING OF FRACTAL PLANETARY SURFACES
 01/11/1999 - 01/14/2002 FY01: \$34,000 Total: \$146,300
Prin. Invest.: M K SHEPARD
Tech. Officer: GSFC/J GRANT
CASE Category: 11 - ASTRONOMY

NAG 5 8679 BUCKNELL UNIV 7882
 INVESTIGATION OF AERODYNAMIC AND RADIOMETRIC LAND SURFACE TEMPERATURES
 07/27/1999 - 08/14/2002 FY01: \$65,645 Total: \$170,060
Prin. Invest.: R D CRAGO
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8699 BUCKNELL UNIV 7883
 IMPROVED PREDICTION OF MOMENTUM AND SCALAR FLUXES USING MODIS IMAGERY
 08/17/1999 - 08/14/2002 FY01: \$19,330 Total: \$56,250
Prin. Invest.: R D CRAGO
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10129 **BUCKNELL UNIV** **7884**
 SATELLITE-BASED ESTIMATION OF AERODYNAMIC ROUGHNESS FOR
 GLOBAL CLIMATE STUDIES
 12/06/2000 - 12/14/2001 FY01: \$5,000 Total: \$5,000
Prin. Invest.: R D CRAGO
Tech. Officer: GSFC/M F JASINSKI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10821 **BUCKNELL UNIV** **7885**
 SOFTWARE AND HARDWARE SYSTEM FOR PREDICTING THE COMPUTA-
 TIONAL SPEED OF HIGH PERFORMANCE COMPUTERS
 04/26/2001 - 05/14/2002 FY01: \$75,497 Total: \$75,497
Prin. Invest.: M F ABURDENE
Tech. Officer: GSFC/J DORBAND
CASE Category: 45 - ELECTRICAL ENGR

NAG 1 2090 **CARNEGIE - MELLON UNIV** **7886**
 NOVEL SCALABLE ALGORITHMS FOR AEROSPACE DESIGN OPTIMIZATION
 OM MASSIVELY PARALLEL COMPUTERS
 07/21/1998 - 08/31/2001 FY01: \$71,000 Total: \$276,403
Prin. Invest.: O GHATTAS
Tech. Officer: LARC/R T BIEDRON, GSFC/J SOBIESKI
CASE Category: 41 - AERONAUTICAL ENGR

NAG 2 1230 **CARNEGIE - MELLON UNIV** **7887**
 APPLICATION SPECIFIC SUPER COMPUTING
 06/16/1998 - 04/30/2001 FY01: \$100,000 Total: \$1,149,288
Prin. Invest.: T C MOWRY, O C GHATTAS, D R O'HALLARON
Tech. Officer: ARC/C H SCHULBACH
CASE Category: 29 - MATH/COMPUTER SCI, OTHER

NAG 2 1276 **CARNEGIE - MELLON UNIV** **7888**
 UAV MODELING & CONTROL
 01/04/1999 - 11/30/2000 FY01: \$0 Total: \$144,372
Prin. Invest.: C E THORPE
Tech. Officer: ARC/M B TISCHLER
CASE Category: 41 - AERONAUTICAL ENGR

NAG 2 1393 **CARNEGIE - MELLON UNIV** **7889**
 MODEL-BASED PROGRAMMING SKUNKWORKS
 02/01/2000 - 04/30/2002 FY01: \$50,000 Total: \$140,000
Prin. Invest.: R SIMMONS
Tech. Officer: ARC/M SHIRLEY
CASE Category: 22 - COMPUTER SCIENCE

NAG 2 1402 **CARNEGIE - MELLON UNIV** **7890**
 AUTOMATED VERIFICATION OF DIAGNOSTIC MODELS
 04/12/2000 - 05/31/2002 FY01: \$80,000 Total: \$145,000
Prin. Invest.: R G SIMMONS
Tech. Officer: ARC/M LOWRY
CASE Category: 22 - COMPUTER SCIENCE

NAG 2 1408 **CARNEGIE - MELLON UNIV** **7891**
 MEMORY-BASED ACTIVE LEARNING OF DYNAMIC CONTROL
 05/30/2000 - 09/30/2000 FY01: \$0 Total: \$30,777
Prin. Invest.: J SCHNEIDER
Tech. Officer: ARC/N MUSCETTOLA
CASE Category: 22 - COMPUTER SCIENCE

NAG 2 1441 **CARNEGIE - MELLON UNIV** **7892**
 HUAV FLIGHTDYNAMICS & CONTROL
 09/28/2000 - 08/31/2002 FY01: \$38,200 Total: \$197,070
Prin. Invest.: W C MESSNER, C E THORPE
Tech. Officer: ARC/M B TISCHLER
CASE Category: 41 - AERONAUTICAL ENGR

NAG 2 1472 **CARNEGIE - MELLON UNIV** **7893**
 EFFECTIVE TEAM SUPPORT: FROM MODELING TO SOFTWARE AGENTS
 04/06/2001 - 03/31/2002 FY01: \$442,776 Total: \$442,776
Prin. Invest.: B JOHN, K SYCARA
Tech. Officer: ARC/M P MATESSA
CASE Category: 22 - COMPUTER SCIENCE

NAG 3 2159 **CARNEGIE - MELLON UNIV** **7894**
 LATEAL MOTION OF PARTICLES AND BUBBLES CAUSED BY PHORETIC
 FLOWS NEAR A SOLID INTERFACE
 04/22/1998 - 12/31/2002 FY01: \$100,000 Total: \$380,000
Prin. Invest.: P J SIDES, Y E SOLOMENTSER, J L ANDERSON
Tech. Officer: GRC/R B ROGERS
CASE Category: 13 - PHYSICS

NAG 3 2449 **CARNEGIE - MELLON UNIV** **7895**
 MICROSCALE HYDRODYNAMICS NEAR MOVING CONTACT LINES MICRO-
 SCALE HYDRODYNAMICS NEAR MOVING CONTACT LINE
 06/12/2000 - 05/18/2005 FY01: \$178,676 Total: \$236,696
Prin. Invest.: S GAROFF
Tech. Officer: GRC/B S SINGH
CASE Category: 13 - PHYSICS

NAG 3 2640 **CARNEGIE - MELLON UNIV** **7896**
 NANOSTRUCTURAL ELECTROCHEMICALLY ACTIVE SYSTEMS FO R LITH-
 IUM-ION BATTERIES
 06/25/2001 - 05/31/2004 FY01: \$50,000 Total: \$50,000
Prin. Invest.: P N KUMTA
Tech. Officer: GRC/D L BRITTON
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 5 3651 **CARNEGIE - MELLON UNIV** **7897**
 MISSION SCIENTIST FOR ESA'S X-RAY MULTI-MIRROR MIS
 03/06/1997 - 02/29/2000 FY01: \$0 Total: \$410,000
Prin. Invest.: D GRIFFITHS
Tech. Officer: GSFC/D MACHI
CASE Category: 11 - ASTRONOMY

NAG 5 6548 **CARNEGIE - MELLON UNIV** **7898**
 A NEW LOOK AT CLUSTER EVOLUTION (L TSA)
 10/29/1997 - 10/31/2000 FY01: \$0 Total: \$149,500
Prin. Invest.: R NICHOL
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 7707 **CARNEGIE - MELLON UNIV** **7899**
 ANTARCTIC METEORITE SEARCH DEMONSTRATION
 09/17/1998 - 08/31/2001 FY01: \$182,000 Total: \$1,182,000
Prin. Invest.: W WHITTAKER
Tech. Officer: GSFC/D LAVERY
CASE Category: 11 - ASTRONOMY

NAG 5 7898 **CARNEGIE - MELLON UNIV** **7900**
 CLUES TO THE ORIGIN OF THE HARD X-RAY BACKGROUND: ASCA DEEP
 SURVEYS OF DEEP ROSAT FIELDS (ADP98)
 01/12/1999 - 12/31/1999 FY01: -\$10 Total: \$46,716
Prin. Invest.: R E GRIFFITHS
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 7926 **CARNEGIE - MELLON UNIV** **7901**
 THE VIPER SUNYAEV-ZELDOVICH SURVEY_(LTSA 98)
 01/03/1999 - 12/31/2001 FY01: \$90,000 Total: \$270,000
Prin. Invest.: A K ROMER
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8093 **CARNEGIE - MELLON UNIV** **7902**
 AN AUTOMATED SYSTEM FOR THE REDUCTION AND ANALYSIS OF X-RAY
 DATA FROM GALAXIES
 02/01/1999 - 06/30/2001 FY01: \$0 Total: \$146,198
Prin. Invest.: A F PTAK
Tech. Officer: GSFC/P HUNTER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9242 **CARNEGIE - MELLON UNIV** **7903**
 APPLICATION & ENGINEERING OF THIN FILM LITHIUM-ION BATTERIES
 USING CARBON NANOTUBES & SOL-GEL DERIVE
 03/10/2000 - 03/14/2001 FY01: \$0 Total: \$20,000
Prin. Invest.: P KUMTA
Tech. Officer: GSFC/H SHAW
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 5 9309 **CARNEGIE - MELLON UNIV** **7904**
 ARTIFICIAL INTELLIGENCE TECHNIQUES FOR MINERAL IDENTIFICATION
 FROM NEAR INFRARED SPECTRA ONBOARD FUT
 03/20/2000 - 03/14/2002 FY01: \$49,700 Total: \$97,500
Prin. Invest.: C GLYMOUR
Tech. Officer: GSFC/J BREDEKAMP
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9899 **CARNEGIE - MELLON UNIV** **7905**
 XMM SURVEY OF THE SHARC SAMPLE: CONSTRAINING OMEGA AND
 CLUSTER FORMATION
 09/06/2000 - 09/14/2001 FY01: \$0 Total: \$12,700
Prin. Invest.: A ROMER
Tech. Officer: GSFC/R F MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 9902 **CARNEGIE - MELLON UNIV** **7906**
 MISSION SCIENTIST FOR ESA'S X-RAY MULTI-MIRROR MISSION
 08/25/2000 - 08/31/2002 FY01: \$164,305 Total: \$324,305
Prin. Invest.: R E GRIFFITHS
Tech. Officer: GSFC/N WHITE
CASE Category: 11 - ASTRONOMY

NAG 5 9922 **CARNEGIE - MELLON UNIV** **7907**
 XMM SEARCHES FOR IRON LINES IN LOW LUMINOSITY AGN: A TEST OF
 ACCRETION THEORIES
 09/05/2000 - 09/15/2001 FY01: \$0 Total: \$16,410
Prin. Invest.: A F PTAK
Tech. Officer: GSFC/P M ATKINS
CASE Category: 11 - ASTRONOMY

NAG 5 10014 **CARNEGIE - MELLON UNIV** **7908**
 'FOSSIL GROUPS' IN THE BRIGHT SHARC SURVEY
 09/21/2000 - 09/30/2001 FY01: \$0 Total: \$18,100
Prin. Invest.: R C NICHOL
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10043 **CARNEGIE - MELLON UNIV** **7909**
 X-RAY SPECTRAL STATISTICS OF A COMPLETE HARD X-RAY -SELECTED
 SAMPLE OF AGNS
 11/02/2000 - 10/31/2002 FY01: \$33,400 Total: \$33,400
Prin. Invest.: T MIYAJI
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10170 **CARNEGIE - MELLON UNIV** **7910**
 X-RAY SPECTROSCOPY OF LOW-LUMINOSITY ACTIVE GALACTIC NUCLEI
 WITH XMM
 12/18/2000 - 12/31/2001 FY01: \$9,724 Total: \$9,724
Prin. Invest.: A F PTAK
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10739 **CARNEGIE - MELLON UNIV** **7911**
 VEXT: A VIRTUAL OBSERVATORY EXPLORATORY TOOLKIT. FULLY FUNDS
 YEAR 1 OF AWARD
 05/17/2001 - 05/31/2002 FY01: \$80,000 Total: \$80,000
Prin. Invest.: J SCHNEIDER
Tech. Officer: GSFC/P E HUNTER
CASE Category: 22 - COMPUTER SCIENCE

NAG 5 10740 **CARNEGIE - MELLON UNIV** **7912**
 ADVANCED GALAXY CLUSTER DETECTION SOFTWARE.
 04/12/2001 - 06/30/2002 FY01: \$130,000 Total: \$130,000
Prin. Invest.: R NICHOL
Tech. Officer: GSFC/P E HUNTER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10875 **CARNEGIE - MELLON UNIV** **7913**
 AGN X-RAY SPECTRAL EVOLUTION (LTSA 2000)
 05/10/2001 - 08/31/2002 FY01: \$93,910 Total: \$93,910
Prin. Invest.: T MIYAJI
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 8 1674 **CARNEGIE - MELLON UNIV** **7914**
 SHAPRE EVOLUTION KINETICS OF SMALL PARTICLES
 06/28/2000 - 11/30/2003 FY01: \$90,250 Total: \$130,250
Prin. Invest.: G S ROHRER, W M MULLINS
Tech. Officer: MSFC/P DOTY
CASE Category: 12 - CHEMISTRY

NAG 8 1704 **CARNEGIE - MELLON UNIV** **7915**
 LATTICE BOLTZMANN COMPUTATIONS OF BINARY DIFFUSION IN LIQUIDS
 UNDER STOCHASTIC MICROGRAVITY
 05/24/2000 - 11/30/2001 FY01: \$121,250 Total: \$121,250
Prin. Invest.: R F SEKERKA
Tech. Officer: MSFC/P DOTY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1799 **CARNEGIE - MELLON UNIV** **7916**
 RESEARCH ENTITLED, "ULTRA-HIGH DENSITY MEMS- ACTUATED-PROBE
 MASS DATA STORAGE"
 04/24/2001 - 04/23/2004 FY01: \$515,000 Total: \$515,000
Prin. Invest.: L R CARLEY
Tech. Officer: MSFC/A KEYS
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1842 **CARNEGIE - MELLON UNIV** **7917**
 ELECTROSMOTIC & ELECTROPHORETIC SELF-ASSEMBLY TECHNIQUES
 TO PROMOTE MASS TRANSFER ON BIOSNESORS
 08/31/2001 - 11/30/2004 FY01: \$67,000 Total: \$67,000
Prin. Invest.: R D TILTON
Tech. Officer: MSFC/B GUYNES
CASE Category: 12 - CHEMISTRY

NAG 9 1090 **CARNEGIE - MELLON UNIV** **7918**
 ANTARTIC METEORITE SEARCH DEMONSTRATION
 02/26/1999 - 04/15/2001 FY01: -\$182,199 Total: \$1,817,801
Prin. Invest.: T KANADE, W WHITAKER
Tech. Officer: HQ/D LAVERY
CASE Category: 46 - MECHANICAL ENGR

NAG 9 1092 **CARNEGIE - MELLON UNIV** **7919**
 AUTONOMOUS ROVER TECHNOLOGY
 03/15/1999 - 04/30/2002 FY01: \$271,800 Total: \$1,341,800
Prin. Invest.: T KANADE
Tech. Officer: JSC/D LAVERY
CASE Category: 46 - MECHANICAL ENGR

NAG 9 1214 **CARNEGIE - MELLON UNIV** **7920**
 PARTICIPATION IN THE FIRST COMPETITION 2000
 03/03/2000 - 03/03/2001 FY01: \$0 Total: \$35,000
Prin. Invest.: W WHITTAKER, D APOSTOLOULOS
Tech. Officer: JSC/C J CULBERT, JSC/C PRICE
CASE Category: 49 - ENGINEERING, OTHER

NAG 9 1226 **CARNEGIE - MELLON UNIV** **7921**
 DISTRIBUTED MULTI-ROBOT ASSEMBLY AND CONSTRUCTION
 05/12/2000 - 05/15/2001 FY01: \$0 Total: \$300,000
Prin. Invest.: R SIMMONS
Tech. Officer: JSC/T PENDLETON, JSC/C CULBERT
CASE Category: 49 - ENGINEERING, OTHER

NAG 9 1232 **CARNEGIE - MELLON UNIV** **7922**
 STRATEGIC POSITIONING AND ATTITUDE COMPUTING ENGINE FOR
 HOMING ORBITING GADGETRY
 05/15/2000 - 12/31/2001 FY01: \$0 Total: \$250,000
Prin. Invest.: O AMIDI
Tech. Officer: JSC/R D JUDAY
CASE Category: 49 - ENGINEERING, OTHER

NAG 9 1240 **CARNEGIE - MELLON UNIV** **7923**
 SKYWORKER PHASE II SPACE SOLAR POWER
 06/29/2000 - 12/30/2000 FY01: \$0 Total: \$124,624
Prin. Invest.: R W WHITTAKER
Tech. Officer: JSC/C J CULBERT, JSC/H ALDRIDGE
CASE Category: 49 - ENGINEERING, OTHER

NAG 9 1242 **CARNEGIE - MELLON UNIV** **7924**
 RESEARCH GRANT
 06/30/2000 - 07/01/2001 FY01: \$0 Total: \$22,000
Prin. Invest.: D HERSHBERGER, D HERSHBERGER
Tech. Officer: JSC/CFARMER, JSC/W TARKINGTON
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 9 1248 **CARNEGIE - MELLON UNIV** **7925**
 AUTONOMOUS RECONNAISSANCE ROVER FOR EVA ROBOTIC AS
 SISTANCE
 07/18/2000 - 07/16/2003 FY01: \$50,000 Total: \$150,000
Prin. Invest.: D APOSTOLOPOULOS
Tech. Officer: JSC/C J CULBERT, JSC/C FARMER
CASE Category: 49 - ENGINEERING, OTHER

NAG 9 1256 **CARNEGIE - MELLON UNIV** **7926**
 SUN SYNCHRONOUS CIRCUMNAVIGATION
 08/21/2000 - 12/20/2001 FY01: \$0 Total: \$1,078,139
Prin. Invest.: W R WHITAKER
Tech. Officer: JSC/C J CULBERT, JSC/H ALDRIDGE
CASE Category: 49 - ENGINEERING, OTHER

NAG 9 1276 **CARNEGIE - MELLON UNIV** **7927**
 PITTSBURGH PUBLIC SCHOOL DIST/CARNEGIE MELLON UNIV TEAM
 PARTICIPATION IN FIRST COMPET
 02/22/2001 - 05/01/2001 FY01: \$35,000 Total: \$35,000
Prin. Invest.: W WHITTAKER
Tech. Officer: JSC/C CULBERT
CASE Category: 46 - MECHANICAL ENGR

NAG 9 1326 **CARNEGIE - MELLON UNIV** **7928**
 DISTRIBUTED MULTI ROBOT ASSEMBLY AND CONSTRUCTION
 06/19/2001 - 05/31/2002 FY01: \$181,000 Total: \$181,000
Prin. Invest.: R SIMMONS, S SINGH
Tech. Officer: JSC/C L FARMER
CASE Category: 22 - COMPUTER SCIENCE

NAG 9 1327 **CARNEGIE - MELLON UNIV** **7929**
 SELF ADAPTIVE PERCEPTION SYSTEMS FOR VARYING ENVIORNENTS
 06/21/2001 - 06/20/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: R SIMMONS, S BURKETT
Tech. Officer: JSC/C FARMER
CASE Category: 46 - MECHANICAL ENGR

NCC 2 1026 **CARNEGIE - MELLON UNIV** **7930**
 AUTONOMOUS SCIENCE SOFTWARE
 03/06/1998 - 01/31/2001 FY01: \$0 Total: \$374,472
Prin. Invest.: C GLYMOUR
Tech. Officer: ARC/TL ROUGH
CASE Category: 22 - COMPUTER SCIENCE

NCC 2 1188 **CARNEGIE - MELLON UNIV** **7931**
 HIGH DEPENDABILITY COMPUTING CONSORTIUM
 07/11/2000 - 12/31/2001 FY01: \$993,461 Total: \$1,043,461
Prin. Invest.: J H MORRIS
Tech. Officer: ARC/M E DUENAS
CASE Category: 22 - COMPUTER SCIENCE

NCC 2 1226 **CARNEGIE - MELLON UNIV** **7932**
 SIMULATING LEARNING OF COMPLEX, DYNAMIC TASKS
 03/23/2001 - 02/28/2002 FY01: \$157,000 Total: \$157,000
Prin. Invest.: J R ANDERSON
Tech. Officer: ARC/M MATESSA
CASE Category: 22 - COMPUTER SCIENCE

NCC 2 1227 **CARNEGIE - MELLON UNIV** **7933**
 AUTOMATED DISCOVERY PROCEDURES FOR GENE EXPRESSION &
 REGULATION FROM MICROARRAY & SERIAL ANALYSIS O
 03/16/2001 - 02/28/2002 FY01: \$298,000 Total: \$298,000
Prin. Invest.: C GLYMOUR
Tech. Officer: ARC/J COUGHLAN
CASE Category: 22 - COMPUTER SCIENCE

NCC 2 1241 **CARNEGIE - MELLON UNIV** **7934**
 FORMAL VERIFICATION TOOLS & TECHNIQUES FOR AUTOMON OUS
 SYSTEMS
 03/28/2001 - 11/30/2001 FY01: \$75,000 Total: \$75,000
Prin. Invest.: J WING
Tech. Officer: ARC/R MORRIS, ARC/D J CLANCY
CASE Category: 22 - COMPUTER SCIENCE

NCC 2 1243 **CARNEGIE - MELLON UNIV** **7935**
 HETEROGENEOUS MULTI-ROVER COORDINATION OF PLANETAR Y EXPLO-
 RATION
 04/05/2001 - 02/28/2002 FY01: \$400,697 Total: \$400,697
Prin. Invest.: R SIMMONS, NONE
Tech. Officer: ARC/R MORRIS, ARC/D J CLANCY
CASE Category: 22 - COMPUTER SCIENCE

NCC 2 5438 **CARNEGIE - MELLON UNIV** **7936**
 INTELLIGENT SPACE ROBOTS IN THE NEXT 20 YEARS A SU MMER STUDY
 06/21/2001 - 10/31/2001 FY01: \$20,647 Total: \$20,647
Prin. Invest.: R SIMMONS
Tech. Officer: ARC/D CLANCY, ARC/J LAN
CASE Category: 22 - COMPUTER SCIENCE

NCC 5 223 **CARNEGIE - MELLON UNIV** **7937**
 NATIONAL ROBOTICS ENGINEERING CONSORTIUM
 08/26/1997 - 07/31/2002 FY01: \$2,874,615 Total: \$13,867,615
Prin. Invest.: T KANADE
Tech. Officer: GSFC/B H HANKS
CASE Category: 11 - ASTRONOMY

NCC 5 431 **CARNEGIE - MELLON UNIV** **7938**
 EVENTSCOPE: A 3D, NETWORKED ROBOTIC LEARNING ENVIR ONMENT. IN
 RESPONSE TO NASA COOPERATIVE AGREEME
 09/20/1999 - 09/30/2002 FY01: \$106,835 Total: \$328,365
Prin. Invest.: P COPPIN
Tech. Officer: GSFC/R E GABRYS
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 8 1704 **CARNEGIE - MELLON UNIV** **7939**
 LATTICE BOLTXMANN COMPUTATIONS OF BINARY DIFFUSION IN LIQUIDS
 UNDER STOCHASTIC MICROGRAVITY
 05/24/2000 - 11/30/2001 FY01: -\$50,000 Total: \$0
Prin. Invest.: R F SEKERKA
Tech. Officer: MSFC/P DOTY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NGT 2 52277 **CARNEGIE - MELLON UNIV** **7940**
 AUTOMATED SURFACE MISSION PLANNING (STUDENT: PAUL D.
 THOMPSON)
 06/12/2001 - 08/31/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: W L WHITTAKER, NONE
Tech. Officer: ARC/M H SIMS
CASE Category: 22 - COMPUTER SCIENCE

NGT 3 52370 **CARNEGIE - MELLON UNIV** **7941**
 GRADUATE STUDENT RESEARCHERS PROGRAM GRADUATE STUDENT
 RESEARCHERS PROGRAM
 06/20/2000 - 06/30/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: P N KUMTA
Tech. Officer: GRC/F J MONTEGANI
CASE Category: 49 - ENGINEERING, OTHER

NGT 3 52379 **CARNEGIE - MELLON UNIV** **7942**
 GRADUATE STUDENT RESEARCHERS PROGRAM GRADUATE STUDENT
 RESEARCHERS PROGRAM
 06/21/2001 - 07/31/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: M E MCHENRY
Tech. Officer: GRC/F J MONTEGANI
CASE Category: 49 - ENGINEERING, OTHER

NGT 5 50054 **CARNEGIE - MELLON UNIV** **7943**
 INVESTIGATING THE MECH. OF AGGREGATION OF COLLOIDA CTROPHO-
 RETIC DEPOSITION
 08/05/1997 - 12/31/1999 FY01: -\$2,380 Total: \$45,287
Prin. Invest.: J L ANDERSON
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50248 **CARNEGIE - MELLON UNIV** **7944**
 TASK EVALUATION FOR ROBOTIC EXPLORERS STUDENT: KIMBERLY SHILL-
 CUTT
 06/04/1999 - 06/30/2001 FY01: \$0 Total: \$33,000
Prin. Invest.: W WHITTAKER
Tech. Officer: GSFC/L SMITH
CASE Category: 11 - ASTRONOMY

NGT 5 50279 **CARNEGIE - MELLON UNIV** **7945**
 EFFICIENT MACHINE LEARNING ALGORITHMS FOR SCIENCE STUDENT:
 ALEXANDER G. GRAY
 06/20/2000 - 07/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: A W MOORE
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50347 **CARNEGIE - MELLON UNIV** **7946**
 INTEGRATING FEATURE TRACKING AND SHAPE-FROM-MOTION FOR
 ROBOST VISUAL NAVIGATION/STUDENT: DENNIS STEL
 05/07/2001 - 06/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: S SINGH
Tech. Officer: HQ/K BLANDING
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1312 **CLARION UNIV OF PENNSYLVANIA** **7947**
 JOVE RESEARCH
 01/22/1997 – 08/31/2000 FY01: -\$22,621 Total: \$63,379
Prin. Invest.: A J VEGA, P T RYBERG
Tech. Officer: MSFC/J F DOWDY, MSFC/J R PRUITT
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 1 01118 **DREXEL UNIV** **7948**
 RECONFIGURABLE CONTROL OF AIRCRAFT IN NONLINEAR FLIGHT REGIMES
 08/16/2001 – 08/31/2004 FY01: \$50,000 Total: \$50,000
Prin. Invest.: B C CHANG
Tech. Officer: LARC/C M BELCASTRO
CASE Category: 41 – AERONAUTICAL ENGR

NAG 2 1436 **DREXEL UNIV** **7949**
 ALTERED SIGNAL TRANSDUCTION & DIFFERENTIAL GENE EXPRESSION IN PC12 PHEOCYTOMOCYTOMA CELLS IN CULTURE
 09/19/2000 – 08/31/2002 FY01: \$231,594 Total: \$426,892
Prin. Invest.: P I LELKES
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 3 1884 **DREXEL UNIV** **7950**
 COMBUSTION OF UNCONFINED DROPLET CLUSTERS IN MICRO GRAVITY
 06/01/1996 – 09/30/2000 FY01: \$0 Total: \$321,727
Prin. Invest.: D A RUFF
Tech. Officer: GRC/D D ROSS, GRC/M A SACKSTEDTER
CASE Category: 46 – MECHANICAL ENGR

NAG 3 2212 **DREXEL UNIV** **7951**
 DEVELOPMENT OF LEAN DIRECT WALL INJECTION (LDWI) CO-MBUSTOR
 12/03/1998 – 09/30/2001 FY01: \$28,602 Total: \$141,182
Prin. Invest.: K J CHOI
Tech. Officer: GRC/R R TACINA
CASE Category: 41 – AERONAUTICAL ENGR

NAG 3 2291 **DREXEL UNIV** **7952**
 ENZYMIC CATABOLYSIS MONITORING USING A DYNAMIC LIGHT SCATTERING PROBE
 09/09/1999 – 07/19/2000 FY01: -\$21,235 Total: \$0
Prin. Invest.: M A DELLAVECCHIA
Tech. Officer: GRC/B S SINGH
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 2295 **DREXEL UNIV** **7953**
 DEVELOPMENT AND VERIFICATION OF AN IMPROVED MODEL OF THE ICE ACCRETION PROCESS
 09/29/1999 – 02/09/2001 FY01: \$0 Total: \$82,975
Prin. Invest.: D A RUFF
Tech. Officer: GRC/M G POTAPCZUK
CASE Category: 41 – AERONAUTICAL ENGR

NAG 5 6029 **DREXEL UNIV** **7954**
 WORK IN SUPPORT OF THE NASA ESS HPCC PROGRAM
 10/06/1997 – 03/31/2001 FY01: \$0 Total: \$520,218
Prin. Invest.: B FRYXELL
Tech. Officer: GSFC/J R FISCHER
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 5 6964 **DREXEL UNIV** **7955**
 STELLAR AND BINARY EVOLUTION IN GLOBULAR CLUSTERS – ATP
 02/10/1998 – 02/14/2002 FY01: \$0 Total: \$350,826
Prin. Invest.: S L MCMILLAN
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 8929 **DREXEL UNIV** **7956**
 SCHOOL-BASED UV-B MONITORING PROJECT IN SUPPORT OF EOS-CHEM
 01/13/2000 – 01/14/2002 FY01: \$101,739 Total: \$184,949
Prin. Invest.: D R BROOKS
Tech. Officer: GSFC/E HILSEN RATH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 9264 **DREXEL UNIV** **7957**
 BINARY EVOLUTION IN GLOBULAR CLUSTERS – ATP
 03/13/2000 – 03/31/2002 FY01: \$84,345 Total: \$152,411
Prin. Invest.: S MCMILLAN
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 10026 **DREXEL UNIV** **7958**
 NASA ESS HPCC PROGRAM
 10/27/2000 – 10/14/2002 FY01: \$215,000 Total: \$215,000
Prin. Invest.: D VALLIERES
Tech. Officer: GSFC/J FISCHER
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 10775 **DREXEL UNIV** **7959**
 STELLAR AND BINARY EVOLUTION IN STAR CLUSTERS (ATP 2000)
 04/24/2001 – 04/30/2002 FY01: \$70,000 Total: \$70,000
Prin. Invest.: S L MCMILLAN
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 11119 **DREXEL UNIV** **7960**
 NUMERICAL RELATIVISTIC ASTROPHYSICS AT THE LABORATORY OF HIGH ENERGY ASTROPHYSICS (LHEA)
 08/09/2001 – 03/14/2003 FY01: \$36,181 Total: \$36,181
Prin. Invest.: M VALLIERES
Tech. Officer: GSFC/J CENTRELLA
CASE Category: 11 – ASTRONOMY

NAG 5 11340 **DREXEL UNIV** **7961**
 LIPID-SOLUBLE ENCAPSULATED ENZYMES AS OPTICAL NANOSENSORS FOR THE DETECTION OF BIOLOGICAL PROCESSES
 09/14/2001 – 09/14/2002 FY01: \$6,000 Total: \$6,000
Prin. Invest.: M A WHEATLEY
Tech. Officer: GSFC/H SHAW
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 9 1380 **DREXEL UNIV** **7962**
 INNOVATIVE CARDIAC TISSUE ENGINEERING IN RWV BIOREACTORS
 09/13/2001 – 09/04/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: P LELKES
Tech. Officer: JSC/N PELLIS
CASE Category: 61 – PSYCHOLOGY BIOLOGY

NAG13 00040 **DREXEL UNIV** **7963**
 APPLICATION OF AN INTEGRATED MONITORING & MODELING SYSTEM
 NARRAGANSETT BAY - INTERNET-BASED TECHNOL
 08/23/2000 - 08/22/2002 FY01: \$376,919 Total: \$886,504
Prin. Invest.: M PIASECKI, M SPAULDING
Tech. Officer: SSC/R MILLER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 1 278 **DREXEL UNIV** **7964**
 EFFECTS OF ELECTROMAGNETIC-INDUCED FAILURE MODES: MODELING
 AND ANALYSIS/MY 1/3
 02/25/1998 - 12/31/2000 FY01: \$0 Total: \$190,900
Prin. Invest.: A C LAU, B C CHANG
Tech. Officer: LARC/C M BELCASTRO
CASE Category: 41 - AERONAUTICAL ENGR

NCC 1 297 **DREXEL UNIV** **7965**
 A STUDY OF THE CHEMISTRY OF SULFUR IN THE INTER- TROPICAL AND
 SOUTH PACIFIC CONVERGENCE ZONES-----
 04/28/1998 - 10/31/2002 FY01: \$0 Total: \$498,742
Prin. Invest.: A R BANDY, D C THORNTON
Tech. Officer: LARC/J L ROPER, LARC/R J BENDURA
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 1 409 **DREXEL UNIV** **7966**
 AN AIRBORNE STUDY OF THE CHEMISTRY OF SULFUR IN THE ATMOSPHERE
 OF THE WESTERN NORTH PACIFIC OCEAN
 09/11/2000 - 06/30/2002 FY01: \$158,304 Total: \$310,340
Prin. Invest.: A R BANDY
Tech. Officer: LARC/J L RAPER, SR
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 3 822 **DREXEL UNIV** **7967**
 EXPERIMENTAL AND MODEL DEVELOPMENT FOR INVESTIGATION OF
 SOOTING AND RADIATION EFFECTS IN MICROGRAVITY
 08/17/2000 - 12/31/2002 FY01: \$160,244 Total: \$215,330
Prin. Invest.: D CHOI
Tech. Officer: GRC/D L URBAN
CASE Category: 49 - ENGINEERING, OTHER

NCC 3 825 **DREXEL UNIV** **7968**
 DEVELOPMENT OF THERMALLY SPRAYED FGM EROSION/OXIDATION
 RESISTANT COATING FOR POLYMERIC SUBSTRATES
 09/26/2000 - 08/31/2003 FY01: \$35,380 Total: \$70,760
Prin. Invest.: D KNIGHT
Tech. Officer: GRC/J K SUTTER
CASE Category: 47 - METAL & MATERIALS ENGR

NCC 3 835 **DREXEL UNIV** **7969**
 A PRELIMINARY INVESTIGATION OF THE E-BEAM INDUCED POLYMER-
 IZATION OF MALEIMIDE AND NORBORNENE END-CAP
 12/15/2000 - 03/31/2002 FY01: \$92,381 Total: \$92,381
Prin. Invest.: D R PALMESE
Tech. Officer: GRC/M A MEADOR
CASE Category: 47 - METAL & MATERIALS ENGR

NCC 3 847 **DREXEL UNIV** **7970**
 COMBUSTION OF UNSUPPORTED DROPLET CLUSTERS IN MICRO GRAVITY
 01/11/2001 - 12/18/2003 FY01: \$59,692 Total: \$59,692
Prin. Invest.: D A RUFF
Tech. Officer: GRC/D L URBAN
CASE Category: 49 - ENGINEERING, OTHER

NCC 3 913 **DREXEL UNIV** **7971**
 INVESTIGATION OF SOOTING AND RADIATION EFFECTS ON THE BURNING
 OF LARGE ETHANOL AND HEPTANE DROPLETS
 08/31/2001 - 07/12/2002 FY01: \$11,250 Total: \$11,250
Prin. Invest.: D Y CHOI
Tech. Officer: GRC/D L URBAN
CASE Category: 49 - ENGINEERING, OTHER

NCC 9 130 **DREXEL UNIV** **7972**
 PC12 PHEOCHROMOCYTOMA CELLS
 05/29/2001 - 05/30/2003 FY01: \$168,150 Total: \$168,150
Prin. Invest.: P LELKE
Tech. Officer: JSC/D RISIN
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 5 6858 **FRANKLIN-MARSHALL COLLEGE** **7973**
 STATISTICAL ALGORITHMS FOR THE ANALYSIS OF SPACE-BASED DATA-
 SETS
 02/09/1998 - 02/14/2002 FY01: \$0 Total: \$63,912
Prin. Invest.: D BACKMAN
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NCC 2 5365 **FRANKLIN-MARSHALL COLLEGE** **7974**
 THE NSTARS PROJECT: DATABASE, ASTROPHYSICS AND ASTRONOMY
 RESEARCH AND SCIENTIFIC WORKSHOPS
 02/01/2000 - 01/31/2001 FY01: \$0 Total: \$63,250
Prin. Invest.: D BACKMAN
Tech. Officer: ARC/L CAROFF
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1840 **HAHNEMANN UNIV** **7975**
 DETERGENT INTERACTIONS AFFECTING MEMBRANE PROTEIN CRYSTAL-
 LIZATION: ANALYSIS & USE IN SCREEN DESIGN
 09/28/2001 - 11/30/2004 FY01: \$81,000 Total: \$81,000
Prin. Invest.: P J LOLL, J M WEINCEK
Prin. Invest.: NONE
Tech. Officer: MSFC/B GUYNES
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 9285 **HAVERTFORD COLLEGE** **7976**
 LARGE-SCALE STRUCTURE IN THE X-RAY BACKGROUND AND LIMITS ON
 COSMOLOGICAL PARAMETERS FROM THE INTEGRAL
 04/17/2000 - 04/30/2002 FY01: \$25,594 Total: \$54,764
Prin. Invest.: S P BOUGHN
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 9 1196 **LA SALLE UNIV** **7977**
 ANALYSIS AND DESIGN OF AUTOMATION ASSISTANTS FOR FLIGHT
 CONTROLLER TEAMS IN THE MISSION CONTROL CENTER
 01/24/2000 - 11/01/2000 FY01: \$0 Total: \$15,500
Prin. Invest.: M TAVANA
Tech. Officer: JSC/D G SICKKOREZ, JSC/S E TORNY
CASE Category: 22 - COMPUTER SCIENCE

NAG 5 10172 **LINCOLN UNIV - PA.** **7978**
 LINCOLN'S ADVANCED SCIENCE AND ENGINEERING REINFORCEMENT
 (LASER) PROGRAM
 01/03/2001 - 01/14/2002 FY01: \$30,000 Total: \$30,000
Prin. Invest.: R LANGLEY
Tech. Officer: GSFC/D MENCHAN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 3368 PENN. ST. U. @ ERIE-BEHREND COLLEGE 7979
 ISO SOLAR SYSTEM MISSION-TEAM MEMBER SUPPORT
 08/28/1996 - 09/30/2001 FY01: \$0 Total: \$60,000
Prin. Invest.: R F KNACKE
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 22 - COMPUTER SCIENCE

NAG 9 1034 PENNSYLVANIA STATE UNIV -HERSHEY MED. 7980
 EFFECT OF HEAD MOVEMENTS ON SYMPATHETIC NERVE ACTIVITY IN HUMANS: ROLE OF THE VESTIBULAR SYSTEM
 07/20/1998 - 07/19/2001 FY01: \$0 Total: \$227,063
Prin. Invest.: C A RAY
Tech. Officer: JSC/C W LLOYD
CASE Category: 56 - MEDICL

NAG 9 1044 PENNSYLVANIA STATE UNIV -HERSHEY MED. 7981
 NEUROVASCULAR RESPONSE TO BED REST
 07/15/1998 - 07/14/2001 FY01: \$0 Total: \$340,560
Prin. Invest.: L I SINOWAY
Tech. Officer: JSC/C F SAWIN
CASE Category: 56 - MEDICL

NAG 9 1259 PENNSYLVANIA STATE UNIV -HERSHEY MED. 7982
 BED REST & NEUROVASCULAR FUNCTION
 09/25/2000 - 08/31/2003 FY01: \$161,340 Total: \$193,608
Prin. Invest.: D MACLEAN
Tech. Officer: JSC/C W LLOYD
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50264 PENNSYLVANIA STATE UNIV -HERSHEY MED. 7983
 TRANSGENIC ZEBRAFISH AS AN INDICATOR OF MUTAGENIC RISK
 07/07/1999 - 06/30/2001 FY01: \$0 Total: \$44,000
Prin. Invest.: C CHENGE
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 1 1924 PENNSYLVANIA STATE UNIV. - UNIV. PARK 7984
 NUMERICAL SIMULATION OF THE EFFECTS OF FUSELAGE SCATTERING ON THE NOISE RADIATED BY ROTORCRAFT
 05/13/1997 - 08/31/2000 FY01: -\$1 Total: \$152,107
Prin. Invest.: P J MORRIS
Tech. Officer: LARC/D P LOCKAND
CASE Category: 41 - AERONAUTICALENGNR

NAG 1 2147 PENNSYLVANIA STATE UNIV. - UNIV. PARK 7985
 NUMERICAL SIMULATIONS FOR LANDING GEAR NOISE GENERATION AND RADIATION (REF:NRA 98-LARC-5)
 02/05/1999 - 12/31/2001 FY01: \$100,000 Total: \$386,954
Prin. Invest.: P J MORRIS, L N LONG
Tech. Officer: LARC/R R ANTOLIFF
CASE Category: 41 - AERONAUTICAL ENGNR

NAG 1 2208 PENNSYLVANIA STATE UNIV. - UNIV. PARK 7986
 SIMULATION OF THE NOISE RADIATED BY RECTANGULAR JETS
 06/24/1999 - 05/31/2001 FY01: \$0 Total: \$120,000
Prin. Invest.: P J MORRIS, L N LONG
Tech. Officer: LARC/R A GOLUB, LARC/D P GARBER
CASE Category: 49 - ENGINEERING, OTHER

NAG 1 2273 PENNSYLVANIA STATE UNIV. - UNIV. PARK 7987
 ADAPTIVE INTERFACE APPROACK USING A REAL TIME BIOCYVERNETIC SYSTEM: CONTROL OF HAZARDOUS
 02/25/2000 - 02/24/2002 FY01: \$0 Total: \$30,000
Prin. Invest.: W J RAY
Tech. Officer: LARC/L J PRINZEL/A T POPE
CASE Category: 69 - PSYCHOLOGY, OTHER

NAG 1 01009 PENNSYLVANIA STATE UNIV. - UNIV. PARK 7988
 THE PHYSICAL MECHANISMS FOR TONAL NOISE GENERATION BY SLATS
 01/23/2001 - 01/31/2004 FY01: \$99,903 Total: \$99,903
Prin. Invest.: P J MORRIS
Tech. Officer: LARC/M R KHORRAMI, LARC/B A SINGER
CASE Category: 41 - AERONAUTICAL ENGNR

NAG 1 01085 PENNSYLVANIA STATE UNIV. - UNIV. PARK 7989
 AN EFFICIENT SCHEME FOR UPDATING SPARSE CHOLESKY FACTORS
 05/24/2001 - 12/31/2001 FY01: \$20,002 Total: \$20,002
Prin. Invest.: P RAGHAVAN, NONE
Tech. Officer: LARC/J C NEWMAN
CASE Category: 22 - COMPUTER SCIENCE

NAG 2 1295 PENNSYLVANIA STATE UNIV. - UNIV. PARK 7990
 WEATHER FORECASTING SUPPORT FOR SOLVE
 03/03/1999 - 01/31/2001 FY01: \$0 Total: \$43,711
Prin. Invest.: G S FORBES
Tech. Officer: ARC/E P CONDON, ARC/R S HIPSKIND
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 2 1302 PENNSYLVANIA STATE UNIV. - UNIV. PARK 7991
 PARTICIPATION AS MISSION SCIENTIST IN OBERVATIONS FROM THE MIDDLE STRATOSPHERE DURING SOLVE
 03/05/1999 - 01/31/2001 FY01: \$0 Total: \$104,000
Prin. Invest.: W H BRUNE
Prin. Invest.: NONE
Tech. Officer: ARC/E P CONDON, ARC/R S HIPSKIND
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 2 1309 PENNSYLVANIA STATE UNIV. - UNIV. PARK 7992
 MEASUREMENTS OF CIO, BRO & HOX DURING SOLVE
 03/15/1999 - 03/31/2001 FY01: \$0 Total: \$95,097
Prin. Invest.: W H BRUNE
Tech. Officer: ARC/E P CONDON, ARC/R S HIPSKIND
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 2 1342 PENNSYLVANIA STATE UNIV. - UNIV. PARK 7993
 MOLECULAR CONTROL OF CELL GROWTH DURING GRAVITY RE SPONSES OF MAIZE SEEDINGS
 07/20/1999 - 07/14/2002 FY01: \$109,871 Total: \$280,398
Prin. Invest.: D J COSGROVE
Tech. Officer: ARC/M M AVERNER, ARC/D D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 2 1366 PENNSYLVANIA STATE UNIV. - UNIV. PARK 7994
 GRAVITROPISM IN CHARA RHIZOIDS
 07/30/1999 - 07/14/2002 FY01: \$71,345 Total: \$215,217
Prin. Invest.: S G GILROY
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 2 1410 PENNSYLVANIA STATE UNIV. - UNIV. PARK 7995
 OBSTACLE DETECTION ALGORITHMS FOR ROTORCRAFT NAVIGATION
 06/13/2000 - 05/14/2001 FY01: \$0 Total: \$59,240
Prin. Invest.: R KASTURI, O I CAMPS
Tech. Officer: ARC/A J AHUMADA, ARC/J B MULLIGAN
CASE Category: 22 - COMPUTER SCIENCE

NAG 2 1453 PENNSYLVANIA STATE UNIV. - UNIV. PARK 7996
 MEASUREMENTS OF OH AND HO2 USING ATHOS ON THE DC-8 DURING SOLVE
 01/26/2001 - 01/31/2002 FY01: \$100,000 Total: \$100,000
Prin. Invest.: W H BRUNE
Tech. Officer: ARC/E P CONDON, ARC/R S HIPSKIND
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 2 1487 PENNSYLVANIA STATE UNIV. - UNIV. PARK 7997
 WIRE DETECTION ALGORITHMS FOR NAVIGATION
 06/26/2001 - 12/31/2001 FY01: \$34,410 Total: \$34,410
Prin. Invest.: R KASTURI, O I CAMPS
Tech. Officer: ARC/A J AHUMADA, ARC/J B MULLIGAN
CASE Category: 22 - COMPUTER SCIENCE

NAG 2 1524 PENNSYLVANIA STATE UNIV. - UNIV. PARK 7998
 EVALUATION OF SI-O-C FOAM CERAMICS IN SIMULATED AE ROTHMAL ENVIRONMENTS
 09/14/2001 - 08/31/2002 FY01: \$30,000 Total: \$30,000
Prin. Invest.: J R HELLMANN
Tech. Officer: ARC/D T ELLERBY, ARC/S M JOHNSON
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 3 1871 PENNSYLVANIA STATE UNIV. - UNIV. PARK 7999
 MICROGRAVITY EFFECTS ON TRANSENDOTHELIAL TRANSPORT
 05/22/1996 - 10/21/2001 FY01: \$0 Total: \$460,000
Prin. Invest.: J M TAZBELL
Tech. Officer: GRC/J S LING, GRC/B S SINGH
CASE Category: 13 - PHYSICS

NAG 3 2151 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8000
 MODELING OF COMBUSTION RESPONSE OF GAS TURBINE SPRAY SWIRL-STABILIZED INJECTORS TO ACOUSTIC OSCILLA
 04/07/1998 - 12/31/2001 FY01: \$40,000 Total: \$135,000
Prin. Invest.: V G YANG, NONE
Tech. Officer: GRC/K L BREISACHER
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2328 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8001
 A NUMERICAL AND EXPERIMENTAL STUDY OF THE FLOW AND NOISE FROM SUBSONIC AND SUPERSONIC JETS
 03/17/2000 - 06/20/2002 FY01: \$59,082 Total: \$181,700
Prin. Invest.: P J MORRIS
Tech. Officer: GRC/M D DAHL
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2374 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8002
 MOLECULAR DYNAMIC OF FLUID SOLID SYSTEMS MOLECULAR DYNAMIC OF FLUID SOLID SYSTEMS
 03/31/2000 - 11/30/2003 FY01: \$50,000 Total: \$75,000
Prin. Invest.: D BANAVAR
Tech. Officer: GRC/F P CHIARAMONTE
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2448 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8003
 HEALTH MANAGEMENT AND LIFE EXTENDING CONTROL OF GAS TURBINE ENGINES
 05/30/2000 - 05/14/2003 FY01: \$60,000 Total: \$95,000
Prin. Invest.: A RAY
Tech. Officer: GRC/T GUO
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2470 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8004
 DYNAMICS OF PARTICLES IN STATIONARY ISOTROPIC TURBULENCE
 07/11/2000 - 11/30/2003 FY01: \$38,000 Total: \$68,000
Prin. Invest.: D R COLLINS
Tech. Officer: GRC/F P CHIARAMONTE
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2501 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8005
 COMBUSTION BEHAVIOR OF ADVANCED MONOPROPELLANTS COMBUSTION BEHAVIOR OF ADVANCED MONOPROPELLANTS
 12/11/2000 - 10/31/2003 FY01: \$100,000 Total: \$100,000
Prin. Invest.: D KUO
Tech. Officer: GRC/B D REED
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 3 2546 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8006
 EXPERIMENTAL AND THEORETICAL STUDIES OF WET GRANULAR MEDIA
 02/26/2001 - 01/31/2004 FY01: \$76,145 Total: \$76,145
Prin. Invest.: D E SCHIFFER
Tech. Officer: GRC/J H AGUI
CASE Category: 43 - CHEMICAL ENGR

NAG 3 2561 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8007
 DIELECTRIC MATERIALS DEVELOPMENT FOR HIGH TEMPERATURE
 03/16/2001 - 02/08/2002 FY01: \$70,000 Total: \$70,000
Prin. Invest.: D T LANAGAN
Tech. Officer: GRC/G E SCHWARZE
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 3 2590 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8008
 MEMS NOZZLE OPTIMIZATION STUDIES FOR DECOMPOSING SOLID MICROPROPULSION TECHNOLOGY
 04/19/2001 - 05/31/2004 FY01: \$58,903 Total: \$58,903
Prin. Invest.: D A LEVIN
Tech. Officer: GRC/B D REED
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 3 2598 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8009
 FLYWHEEL TECHNOLOGY DEVELOPMENT FOR SMALL SATELITE APPLICATIONS
 04/27/2001 - 04/30/2003 FY01: \$59,745 Total: \$59,745
Prin. Invest.: H HOFMANN
Tech. Officer: GRC/B KENNY
CASE Category: 45 - ELECTRICAL ENGR

NAG 3 2603 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8010
 INVESTIGATION OF ULTRAHIGH POWER DENSITY MACHINE DESIGNS
 05/04/2001 - 10/31/2001 FY01: \$79,997 Total: \$79,997
Prin. Invest.: D HOFMANN, NONE
Tech. Officer: GRC/G V BROWN
CASE Category: 45 - ELECTRICAL ENGR

NAG 4 160 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8011
 LEARNING USING ERASST AIRCRAFT/LUAU
 02/08/1999 - 09/30/2001 FY01: \$20,253 Total: \$230,418
Prin. Invest.: B GRABOWSKI, J A GOODE
Tech. Officer: DFRC/M MC CARTHY, DFRC/E L DUKE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 2857 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8012
 PHYSICS AND COSMOLOGY OF HIGH-ENERGY SOURCES
 01/23/1995 - 09/30/2000 FY01: -\$1,364 Total: \$283,636
Prin. Invest.: P MESZAROS
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 3856 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8013
 ASSESSING THE IMPACT OF EXPANDING URBAN LAND USE USING
 REMOTE SENSING DATA & PHYSICALLY BASED SOIL
 12/19/1996 - 12/14/2000 FY01: \$0 Total: \$362,320
Prin. Invest.: G W PETERSEN
Tech. Officer: GSFC/M J IMHOFF
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 3970 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8014
 USE OF ARABIDOPSIS TRANSPOSON MUTANTS IN THE STUDY
 03/05/1997 - 02/28/2001 FY01: \$0 Total: \$470,187
Prin. Invest.: N V FEDOROFF
Tech. Officer: GSFC/M AVERNER
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 5 4301 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8015
 A STUDY OF PLANETARY SYSTEMS AROUND NEUTRON STARS
 04/09/1997 - 02/28/2002 FY01: \$65,000 Total: \$297,000
Prin. Invest.: D WOLSZCZAN
Tech. Officer: GSFC/D NAVA
CASE Category: 11 - ASTRONOMY

NAG 5 4553 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8016
 THE GLOBAL WATER CYCLE: EXTENSION ACROSS THE EARTH
 06/12/1997 - 06/30/2002 FY01: \$0 Total: \$5,263,454
Prin. Invest.: E J BARRON
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 4840 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8017
 THE REGENERATING PROTOPLAST AS A SINGLE CELL MODEL IN PLANTS
 06/26/1997 - 05/31/2002 FY01: \$0 Total: \$366,770
Prin. Invest.: R CYR
Tech. Officer: GSFC/M AVERNER
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 5 5093 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8018
 RESEARCH IN X-RAY ASTRONOMY
 11/22/1996 - 09/30/2000 FY01: \$0 Total: \$1,367,429
Prin. Invest.: D BURROWS, G P GARMIRE
Tech. Officer: GSFC/W GURKIN
CASE Category: 13 - PHYSICS

NAG 5 5136 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8019
 SPIRIT: STUDENT PROJECTS INVOLVING ROCKET INVESTIGATION TECH-
 Niques
 04/14/1997 - 04/13/2001 FY01: \$0 Total: \$35,000
Prin. Invest.: J D MITCHELL
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 - PHYSICS

NAG 5 5169 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8020
 PROJECT DROPPS: THE DISTRIBUTION AND ROLE OF PARTICLES IN THE
 POLAR SUMMER MESOSPHERE
 03/13/1998 - 12/31/2001 FY01: \$0 Total: \$168,596
Prin. Invest.: J D MITCHELL
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 - PHYSICS

NAG 5 5174 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8021
 VALIDATION AND PROMPT DISTRIBUTION OF ACCESS DATA FUNDING FOR
 FIRST YEAR OF GRANT
 03/09/1998 - 03/31/2002 FY01: \$0 Total: \$109,080
Prin. Invest.: S COUTU
Tech. Officer: GSFC/B A MERRITT
CASE Category: 13 - PHYSICS

NAG 5 5210 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8022
 COSMIC RAY ENERGETICS AND MASS (CREAM) COSMIC RAY ENERGETICS
 AND MASS (CREAM)
 09/22/1998 - 05/31/2000 FY01: \$0 Total: \$85,600
Prin. Invest.: J J BEATTY
Tech. Officer: WFF/B A MERRITT
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 5220 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8023
 GRANT NAG5-5220 - HIGH ENERGY ANTIMATTER TELESCOPE (HEAT) - PI
 DR. JAMES BEATTY
 03/16/1999 - 11/30/2001 FY01: \$100,000 Total: \$461,000
Prin. Invest.: J J BEATTY
Tech. Officer: GSFC/B A MERRITT
CASE Category: 13 - PHYSICS

NAG 5 5248 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8024
 COSMIC RAY ENERGETICS AND MASS (CREAM) COSMIC RAY ENERGETICS
 AND MASS (CREAM)
 03/12/2000 - 11/30/2002 FY01: \$152,000 Total: \$296,000
Prin. Invest.: BEATTY
Tech. Officer: GSFC/B MERRITT
CASE Category: 13 - PHYSICS

NAG 5 5250 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8025
 FIRST YEAR OF THREE YEAR EFFORT FOR PI DR. STEPHANE COUTU
 03/23/2000 - 11/30/2002 FY01: \$152,000 Total: \$296,000
Prin. Invest.: S E COUTU
Tech. Officer: WFF/B A MERRITT
CASE Category: 13 - PHYSICS

NAG 5 5256 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8026
 MODIFICATION OF IONIZATION PROPERTIES IN THE MIDDLE ATMOSPHERE
 BY GRAVITY WAVES
 03/20/2000 - 02/10/2003 FY01: \$266,856 Total: \$514,256
Prin. Invest.: C L CROSKY
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 - PHYSICS

NAG 5 5277 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8027
 RESEARCH IN X-RAY ASTRONOMY RESEARCH IN X-RAY ASTRONOMY
 06/01/2000 - 05/15/2002 FY01: \$0 Total: \$265,000
Prin. Invest.: D N BURROWS, G P GARMIRE
Tech. Officer: GSFC/J C BRINTON
CASE Category: 13 - PHYSICS

NAG 5 5313 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8028
 GRAVITY WAVE FORCING THE MESOSPHERE AND LOWER THERMO-
 SPHERE MOUNTAIN AND CONNECTIVE WAVES
 02/08/2001 - 02/07/2004 FY01: \$79,287 Total: \$79,287
Prin. Invest.: C L CROSKEY
Tech. Officer: GSFC/J C BRINTON
CASE Category: 13 - PHYSICS

NAG 5 6207 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8029
 MECHANISM OF LENGTH-OF-DAY VARIABILITY
 08/01/1997 - 12/31/2000 FY01: -\$3,484 Total: \$177,999
Prin. Invest.: S FELDSTEIN
Tech. Officer: GSFC/H FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 6389 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8030
 MODELING THE AIR-SEA FLUXES OF CARBONYL SYLFIDE AN D CARBON
 MONOXIDEUSING REMOTELY SENSED DATA
 10/17/1997 - 08/31/2001 FY01: \$0 Total: \$179,506
Prin. Invest.: R NAJJAR
Tech. Officer: GSFC/J A MARRA
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6399 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8031
 THE GAS AND THE STARS OF INTERMEDIATE REDSHIFT GALAXIES (LTSA)
 10/10/1997 - 10/14/2002 FY01: \$58,100 Total: \$283,394
Prin. Invest.: J CHARLTON
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 6451 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8032
 EVALUATION AND INTERCOMPARISON OF THREE-DIMENSIONA L MARINE
 CARBON CYCLE MODELS
 10/24/1997 - 12/31/2001 FY01: \$0 Total: \$201,866
Prin. Invest.: R NAJJAR
Tech. Officer: GSFC/J CAMPBELL
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6656 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8033
 SPACE-TIME SCALING OF WATER TRANSFERS BETWEEN THE LAND
 SURFACE AND THE LOWER ATMOSPHERE
 12/04/1997 - 10/31/2000 FY01: \$0 Total: \$163,955
Prin. Invest.: A P BARROS
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6713 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8034
 PHASE COMPRESSED IMAGE DATA FOR BROAD-ARE LANDSCAP E
 CHANGE ANALYSESANDHARMONIZATION OF IMAGE
 12/30/1997 - 12/31/2000 FY01: \$0 Total: \$87,500
Prin. Invest.: W MEYERS
Tech. Officer: GSFC/D WILLIAMS
CASE Category: 39 - ENVIRONMENTALSCI, OTHER

NAG 5 6737 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8035
 THE STATISTICAL CONSULTING CENTER FOR ASTRONOMY (S CCA)
 12/17/1997 - 12/31/2001 FY01: \$0 Total: \$97,886
Prin. Invest.: M AKRITAS
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 6852 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8036
 AN RXTE LONG LOOK AT THE BRIGHT SEYFERT 1 GALAXY M CG-6-30-15
 01/13/1998 - 01/14/2001 FY01: \$0 Total: \$10,772
Prin. Invest.: W BRANDT
Tech. Officer: GSFC/J SWANK
CASE Category: 11 - ASTRONOMY

NAG 5 6907 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8037
 SOFT X-RAY RADIATION FROM ISOLATED NEUTRON STARS
 02/17/1998 - 07/31/2000 FY01: -\$3 Total: \$87,597
Prin. Invest.: G PAVLOV
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 7017 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8038
 NEUTRON STAR ATMOSPHERES - ATP
 02/17/1998 - 02/14/2002 FY01: \$0 Total: \$288,142
Prin. Invest.: G G PAVLOV
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 7121 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8039
 MULTIFREQUENCY MONITORING OF MRK 501
 04/13/1998 - 04/14/2000 FY01: -\$1,467 Total: \$7,408
Prin. Invest.: R M SAMBRUNA
Tech. Officer: GSFC/J SWANK
CASE Category: 11 - ASTRONOMY

NAG 5 7256 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8040
 BROAD-BAND SPECTRA AND VARIABILITY OF THE BRIGHT N ARROW-LINE
 SEYFERT1 GALAXY H0707-495 & COORDI
 05/01/1998 - 06/30/2000 FY01: -\$861 Total: \$20,907
Prin. Invest.: W N BRANDT
Tech. Officer: GSFC/J SWANK
CASE Category: 11 - ASTRONOMY

NAG 5 7276 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8041
 SIMULTANEOUS XTE AND AXAF OBSERVATIONS OF THE CIRC INUS
 GALAXY;MULTIFREQUENCY MONITORING O
 04/15/1998 - 04/14/2001 FY01: \$0 Total: \$11,554
Prin. Invest.: G CHARTAS
Tech. Officer: GSFC/J SWANK
CASE Category: 11 - ASTRONOMY

NAG 5 7443 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8042
 INVESTIGATING MESOSCALE CONVECTIVE SYSTEMS & TROPI CAL
 EASTERLY WAVES IN CENTRAL & WEST AFRICA USING
 06/12/1998 - 06/14/2001 FY01: \$0 Total: \$140,600
Prin. Invest.: G JENKINS
Tech. Officer: GSFC/R W LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7547 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8043
 SATELLITE TRACKING AND RAINFALL ESTIMATION FOR SHO RT-TERM,
 HEAVILY PRECIPITATING STORM EVENTS
 06/22/1998 - 06/30/2002 FY01: \$0 Total: \$235,764
Prin. Invest.: J L EVANS
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 7776 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8044
 REMOTE SENSING OF WEST ANTARCTIC ICE SHEET SURFACE MELTING:
 RECOGNITION, CONTROLS, AND SIGNIFICANCE
 10/27/1998 - 12/31/2002 FY01: \$11,210 Total: \$31,220
Prin. Invest.: R ALLEY
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7781 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8045
 MEASUREMENT AND ANALYSIS OF THE SPATIAL AND TEMPORAL VARI-
 ABILITY OF TOPOGRAPHIC PRECIPITATION IN
 11/13/1998 - 10/31/1999 FY01: -\$1,530 Total: \$158,470
Prin. Invest.: A P BARROS
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7925 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8046
 HIGH-ENERGY ABSORPTION IN BLAZARS: PROBING THE INNER JET ENVI-
 RONMENT (ADP 98)
 01/03/1999 - 09/14/2000 FY01: -\$70,923 Total: \$6,831
Prin. Invest.: R M SAMBRUNA
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 8005 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8047
 A SMALL, LIGHTWEIGHT RADIOMETER TO IMPROVE THE TERRESTRIAL
 SAMPLING OF RAINFALL
 01/12/1999 - 09/30/2000 FY01: -\$21,630 Total: \$194,187
Prin. Invest.: C S RUF
Tech. Officer: GSFC/C D KUMMEROW
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 8107 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8048
 AXAF, XMM AND ASTRO-E INVESTIGATIONS OF SEYFERT/QUASAR
 CENTRAL ENGINES: EXPLORING THE ENVIRONMENTS
 02/05/1999 - 02/14/2002 FY01: \$64,700 Total: \$188,500
Prin. Invest.: W N BRANDT
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8369 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8049
 A METASTABLE ASSOCIATED ABSORBER IN THE BROAD-LINE RADIO
 GALAXY ARP 102B (ADP98)
 03/02/1999 - 02/28/2001 FY01: \$0 Total: \$19,942
Prin. Invest.: M ERACELOUS
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8401 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8050
 SWIFT - PHASE A CONCEPT STUDY
 03/05/1999 - 08/31/2000 FY01: -\$1,949 Total: \$578,490
Prin. Invest.: J NOUSEK
Tech. Officer: GSFC/L HILLARD
CASE Category: 11 - ASTRONOMY

NAG 5 8422 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8051
 2-RAY STUDIES OF YOUNG STELLAR OBJECTS (LTSA 98)
 04/01/1999 - 04/30/2001 FY01: \$0 Total: \$53,117
Prin. Invest.: E D FEIGELSON
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 8710 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8052
 METHANE & HYDROGEN IN EARTH'S PRIMITIVE ATMOSPHERE
 08/02/1999 - 09/30/2001 FY01: \$79,200 Total: \$158,579
Prin. Invest.: J F KASTING
Tech. Officer: GSFC/M MEYER
CASE Category: 11 - ASTRONOMY

NAG 5 8735 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8053
 MERGING MODELS AND OBSERVATIONS OF THE ATMOSPHERIC
 BOUNDARY LAYER'S MESOSCALE STRUCTURE DURING SGP-9
 08/17/1999 - 08/14/2002 FY01: \$0 Total: \$117,240
Prin. Invest.: D R STAUFFER
Tech. Officer: GSFC/P R HOUSER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8738 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8054
 SPACE-TIME DYNAMICS OF SOIL MOISTURE & TEMPERATURE -SCALE
 ISSUES
 08/17/1999 - 08/14/2002 FY01: \$23,667 Total: \$71,000
Prin. Invest.: D MILLER
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9039 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8055
 TECTONIC-CLIMATE INTERACTIONS IN ACTION OROGENIC BELTS: QUAN-
 TIFICATION OF DYNAMIC TOPOGRAPHY WITH S
 02/10/2000 - 12/31/2000 FY01: -\$9,468 Total: \$82,032
Prin. Invest.: D W BURBANK
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 9089 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8056
 SEARCH FOR NEW EVIDENCE IN PRE-2.0 GA PALEOSOLS & SHALES FOR
 THE EARLY EVOLUTION OF ATMOSPHERIC OXYGEN
 02/17/2000 - 01/31/2002 FY01: \$60,000 Total: \$120,000
Prin. Invest.: H OHMOTO, NONE
Tech. Officer: GSFC/M MEYER
CASE Category: 11 - ASTRONOMY

NAG 5 9133 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8057
 CONSTRAINING THE STRUCTURE OF THE CENTRAL ENGINE OF RADIO-
 LUD AGN ADP99
 02/28/2000 - 09/14/2000 FY01: -\$28,219 Total: \$1,446
Prin. Invest.: R M SAMBRUNA
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9134 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8058
 INTENSIVE RXTE MONITORING OF THE TEV BLAZAR MRK501 (ADP 99)
 02/28/2000 - 01/31/2001 FY01: -\$23,678 Total: \$0
Prin. Invest.: R M SAMBRUNA
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9153 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8059
 THEORETICAL STUDIES OF GAMMA-RAY BURSTS WITH SWIFT
 03/02/2000 - 06/30/2002 FY01: \$30,989 Total: \$60,989
Prin. Invest.: P I MESZAROS
Tech. Officer: GSFC/N GEHRELS
CASE Category: 11 - ASTRONOMY

NAG 5 9192 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8060
 PHYSICS OF GAMMA RAY BURST SOURCES
 03/08/2000 - 03/14/2002 FY01: \$106,443 Total: \$210,900
Prin. Invest.: P MESZAROS
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9377 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8061
 THE ORIGINS AND PROPERTIES OF INTRACLUSTER STARS (LTSA 99)
 04/05/2000 - 03/31/2002 FY01: \$104,747 Total: \$212,803
Prin. Invest.: R CIARDULLO
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9586 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8062
 A RADICAL-VELOCITY ASSESSMENT OF CANDIDATE SIM GRID STARS FOR
 ASTROMETIC STABILITY, USING
 05/10/2000 - 05/14/2002 FY01: \$35,000 Total: \$70,000
Prin. Invest.: R A WADE
Tech. Officer: GSFC/P CRANE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9587 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8063
 "THIN FILM TRANSISTOR ADDRESSING ARRAYS FOR MICRO- WELL
 GAMMA RAY DETECTORS"
 05/12/2000 - 05/14/2001 FY01: \$0 Total: \$100,000
Prin. Invest.: T JACKSON
Tech. Officer: GSFC/S D HUNTER
CASE Category: 11 - ASTRONOMY

NAG 5 9918 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8064
 AN X-RAY STUDY OF THE MOST DISTANT QUASARS FROM THE SLOAN
 DIGITAL SKY SURVEY
 09/05/2000 - 09/14/2002 FY01: \$14,000 Total: \$28,100
Prin. Invest.: W N BRANDT
Tech. Officer: GSFC/R F MUSKOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 9924 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8065
 A DETAILED STUDY OF TWO NLS1
 09/05/2000 - 09/14/2002 FY01: \$0 Total: \$6,964
Prin. Invest.: W N BRANDT
Tech. Officer: GSFC/P M ATKINS
CASE Category: 11 - ASTRONOMY

NAG 5 9932 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8066
 XMM SPECTROSCOPY OF THE X-RAY DETECTED BROAD ABSORPTION
 LINE QSO CSO 755
 09/07/2000 - 09/14/2002 FY01: \$15,700 Total: \$32,700
Prin. Invest.: W N BRANDT
Tech. Officer: GSFC/D F MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 9933 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8067
 XMM STUDY OF THE BRIGHT ULTRASOFT NARROW-LINE QUASAR NAB
 0205+024
 09/07/2000 - 09/14/2002 FY01: \$0 Total: \$5,945
Prin. Invest.: W N BRANDT
Tech. Officer: GSFC/D F MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 9934 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8068
 CONSTRAINTS ON HO FROM TIME-DELAY MEASUREMENTS OF
 PG1115+080
 09/06/2000 - 09/14/2002 FY01: \$16,000 Total: \$36,600
Prin. Invest.: G CHARTAS
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 9938 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8069
 SPECTRUM AND PULSATONS OF THE NEUTRON STAR CANDIDATE RX
 J0002+6246
 09/06/2000 - 09/14/2002 FY01: \$0 Total: \$5,991
Prin. Invest.: G PAVLOV
Tech. Officer: GSFC/R F MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 9939 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8070
 AN XMM STUDY OF THE BRIGHT NARROW-LINE SEYFERT 1 GALAXY
 ARAKELIAN 564
 09/06/2000 - 09/14/2002 FY01: \$14,400 Total: \$28,800
Prin. Invest.: W BRANDT
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 9940 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8071
 XMM SPECTROSCOPY OF MARKARIAN 6: INTRINSIC ABSORPTION AND
 BLACK HOLE REGION
 09/06/2000 - 09/14/2002 FY01: \$15,000 Total: \$30,300
Prin. Invest.: W N BRANDT
Tech. Officer: GSFC/R F MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 9949 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8072
 THROUGH BAL QUASARS BRIGHTLY
 09/07/2000 - 08/31/2002 FY01: \$15,900 Total: \$33,900
Prin. Invest.: G CHARTAS
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 9970 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8073
 PROBING CLASS O PROTOSTARS WITH HARD X-RAYS --OMC2 -3
 REGION--
 09/13/2000 - 09/14/2002 FY01: \$16,000 Total: \$38,300
Prin. Invest.: Y TSUBOI
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 9976 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8074
 RGS ABUNDANCE MEASUREMENT OF WOLF-RAYET STELLAR WIND
 09/12/2000 - 09/14/2001 FY01: \$0 Total: \$17,000
Prin. Invest.: Y MAEDA
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 9982 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8075
 STRUCTURE OF THE ACCRETION FLOWS IN BROAD-LINE RADIO GALAXIES
 09/13/2000 - 09/14/2002 FY01: \$16,444 Total: \$37,444
Prin. Invest.: M ERACLEOUS
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10050 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8076
 MERGING MODELS AND OBSERVATIONS OF THE ATMOSPHERIC
 BOUNDARY LAYER'S MESOSCALE STRUCTURE DURING S
 09/28/2000 - 05/31/2002 FY01: \$0 Total: \$41,578
Prin. Invest.: K DAVIS
Tech. Officer: GSFC/E ENGMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10079 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8077
 MAPPING SPECTRAL LINES FROM THE DIFFUSE X-RAY BACK GROUND
 10/27/2000 - 10/31/2001 FY01: \$9,500 Total: \$9,500
Prin. Invest.: D N BURROWS, NONE
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10080 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8078
 SHADOWING OF THE EXTRAGALACTIC SOFT X-RAY BACK- GROUND
 10/27/2000 - 10/31/2001 FY01: \$8,900 Total: \$8,900
Prin. Invest.: D N BURROWS
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10089 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8079
 THE X-RAY PROPERTIES OF LOCAL GALAXIES: BRIDGING THE GAP TO
 HIGH-Z
 11/20/2000 - 11/30/2001 FY01: \$6,703 Total: \$6,703
Prin. Invest.: N BRANDT
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10541 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8080
 PATTERN-BASED MONITORING OF CHANGE AT MULTIPLE SCALES
 THROUGH REMOTE SENSING& GIS IN FOREST
 03/20/2001 - 03/14/2002 FY01: \$50,000 Total: \$50,000
Prin. Invest.: W L MYERS
Tech. Officer: GSFC/D L WILLIAMS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10542 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8081
 STATICAL CHALLENGES IN MODERN ASTRONOMY III
 03/13/2001 - 03/14/2002 FY01: \$20,000 Total: \$20,000
Prin. Invest.: G BABU
Tech. Officer: GSFC/D GOLOMBEK
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10617 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8082
 PENN STATE ACTIVITIES IN THE NASA GSFC TRANSMISSIV E MICRO-
 SHUTTER ARRAY TECHNOLOGY DEVELOPMENT PROGR
 03/19/2001 - 03/31/2002 FY01: \$64,156 Total: \$64,156
Prin. Invest.: D GE
Tech. Officer: GSFC/S H MOSELY
CASE Category: 11 - ASTRONOMY

NAG 5 10706 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8083
 SOFT X-RAY BACKGROUND IN THE GALACTIC ANTI-CENTER (ADP - 2000)
 04/19/2001 - 04/30/2002 FY01: \$5,209 Total: \$5,209
Prin. Invest.: S PARK, NONE
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 10817 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8084
 A COMPREHENSIVE STUDY OF THE NARROW ABSORPTION- LINE GAS
 INSTRINSIC TO QUASARS
 04/24/2001 - 04/30/2002 FY01: \$86,821 Total: \$86,821
Prin. Invest.: M ERACLEOUS
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 10865 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8085
 X-RAY RADIATION FROM NEUTRON STARS (LTSA 2000)
 05/08/2001 - 05/14/2002 FY01: \$89,000 Total: \$89,000
Prin. Invest.: G PAVLOV
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 8 1272 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8086
 GRAVITATIONAL EFFECT ON THE DEVELOPMENT OF LASER WELDPPOOL
 AND SOLIDIFICATIONMICROSTRUCTURE
 05/09/1996 - 06/22/2002 FY01: \$0 Total: \$600,000
Prin. Invest.: J SINGH
Tech. Officer: MSFC/P DOTY, MSFC/R POWER
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1286 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8087
 JOVE RESEARCH
 01/21/1997 - 08/31/2000 FY01: -\$3,831 Total: \$30,472
Prin. Invest.: G SUBRAMANIAM
Tech. Officer: MSFC/J F DOWDY, MSFC/J R PRUITT
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1452 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8088
 R/S GRAVITATIONAL EFFECTS ON DISTORTION IN SINTERING
 02/01/1998 - 01/31/2002 FY01: \$148,750 Total: \$565,000
Prin. Invest.: R M GERMAN
Tech. Officer: MSFC/C TALLEY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1530 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8089
 NUMERICAL STUDY OF THE ROLE OF SHALLOW CONVECTION ON MOIS-
 TURE TRANSPORT AND CLIMATE
 05/06/1998 - 05/30/2001 FY01: \$0 Total: \$423,849
Prin. Invest.: N L SEAMAN
Tech. Officer: MSFC/J ARNOLD
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 8 1732 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8090
 DEMONSTRATION OF THROTTLEABLE LOX/H @ INJECTOR CONCEPTS
 07/01/2000 - 09/30/2001 FY01: \$0 Total: \$98,000
Prin. Invest.: R J SANTORO, R D WOODWARD
Tech. Officer: MSFC/W ANDERSON
CASE Category: 46 - MECHANICAL ENGR

NAG 8 1761 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8091
 CRITICAL CASMIR FORCES
 05/01/2001 - 04/30/2005 FY01: \$115,000 Total: \$115,000
Prin. Invest.: M CHAN
Tech. Officer: MSFC/D HUBBARD
CASE Category: 13 - PHYSICS

NAG 8 1792 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8092
 RESEARCH ENTITLED, "VALIDATION DATA FOR FULL FLOW STAGED
 COMBUSTION INJECTORS"
 03/13/2001 - 03/31/2005 FY01: \$367,650 Total: \$367,650
Prin. Invest.: R J SANTORO
Tech. Officer: MSFC/K TUCKER
CASE Category: 43 - CHEMICAL ENGR

NAG 8 1844 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8093
 FOCUSED ROCKET-EJECTOR ROCKET-BASED COMBINED-CYCLE
 EXPERIMENTS (RBCC)
 07/16/2001 - 06/30/2002 FY01: \$60,000 Total: \$60,000
Prin. Invest.: R J SANTORO, S PAL
Tech. Officer: MSFC/J H RUFF
CASE Category: 42 - AERONAUTICAL ENGR

NAG 9 1173 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8094
 FACILITATED BLOOD PRESSURE CONTROL
 09/22/1999 - 09/30/2002 FY01: \$133,367 Total: \$281,449
Prin. Invest.: J A PAWELCZYK
Tech. Officer: JSC/C LLOYD
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 9 1264 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8095
 BONE STRAIN DURING OG EXERCISE
 11/28/2000 - 10/31/2003 FY01: \$247,831 Total: \$247,831
Prin. Invest.: P CAVANAGH
Tech. Officer: JSC/C W LLOYD
CASE Category: 56 - MEDICL

NAG 9 1372 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8096
 MICROFABRICATED OPTICAL BIOSENSOR ARRAYS FOR AIR QUALITY
 MONITORING
 08/01/2001 - 09/03/2003 FY01: \$101,397 Total: \$101,397
Prin. Invest.: M V PISHKO
Tech. Officer: JSC/D RUSSO
CASE Category: 54 - ENVIRONMENTAL BIOLOGY

NAS 3 01082 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8097
 REDUCED THERMAL CONDUCTIVITY ZIRCONIA BASED THERMAL BARRIER
 COATINGS TBC APPLIED ON ALUMINIDE BOND
 03/08/2001 - 03/01/2002 FY01: \$100,000 Total: \$100,000
Prin. Invest.:
Tech. Officer: GRC/R DRAPER
CASE Category: 47 - METAL & MATERIALS ENGR

NAS 5 00024 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8098
 CONTRACTOR WILL PROVIDE 3-DIMENSIONAL FIELDS OF ATMOSPHERIC
 TRACE GASES.
 11/30/1999 - 11/29/2000 FY01: \$0 Total: \$20,000
Prin. Invest.: W H BRUNE
Tech. Officer: GSFC/J F GLEASON, GSFC/E H HILSENATH
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAS 5 00136 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8099
 SWIFT ULTRAVIOLET & OPTICAL TELESCOPES X-RAY TELESCOPE,
 GROUND STATION SYSTEM
 04/27/2000 - 12/31/2006 FY01: \$6,876,000 Total: \$10,782,000
Prin. Invest.: J A NOUSEK
Tech. Officer: GSFC/R BORELLI
CASE Category: 11 - ASTRONOMY

NAS 8 38252 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8100
 AXAF CCD IMAGING SPECTROMETER
 06/27/1990 - 03/01/2002 FY01: \$2,773,000 Total: \$11,442,000
Prin. Invest.: G P GARMIRE
Tech. Officer: MSFC/M E ROSENTHAL
CASE Category: 49 - ENGINEERING, OTHER

NAS 8 40890 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8101
 R/S "EXPERIMENTAL & ANALYTICAL MODELING OF THE ROCKET EJECTOR
 MODE"
 09/04/1996 - 07/01/2001 FY01: \$0 Total: \$1,136,163
Prin. Invest.: S PAL, R J SANTORO
Tech. Officer: MSFC/J C MCARTHUR, MSFC/R L MOORE
CASE Category: 41 - AERONAUTICAL ENGR

NAS 9 99095 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8102
 FOOT REACTION FORCES DURING SPACE FLIGHT
 05/01/1999 - 04/30/2002 FY01: \$117,500 Total: \$558,015
Prin. Invest.: P CAVANAGH
Tech. Officer: JSC/M KAMMAN
CASE Category: 56 - MEDICL

NCC 1 300 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8103
 HOX MEASUREMENTS IN PEMP TROPOSPHERIC B WITH THE AIRBORNE
 TROPOSPHERIC HYDROGEN OXIDES SENSOR
 07/07/1998 - 07/30/2001 FY01: \$1 Total: \$720,141
Prin. Invest.: W H BRUNE
Tech. Officer: LARC/J M HOELL, JR., LARC/R J BENDURA
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 1 382 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8104
 NASTRAN DMAP FUZZY STRUCTURES PROGRAMMING
 03/15/2000 - 09/30/2001 FY01: \$49,957 Total: \$104,028
Prin. Invest.: V W SPARROW
Tech. Officer: LARC/R D BUEHRLE/J H ROBINSON
CASE Category: 41 - AERONAUTICAL ENGR

NCC 1 406 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8105
 MODELING THE NOISE OF ARBITRARY, MANEUVERING ROTORS
 09/07/2000 - 08/31/2003 FY01: \$1 Total: \$62,131
Prin. Invest.: K S BRENTNER
Tech. Officer: LARC/H E JONES
CASE Category: 41 - AERONAUTICAL ENGR

NCC 1 414 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8106
TRACE-P OH & HO2 MEAS'S W/AIRBORNE TROPOSPHERIC HYDROGEN
OXIDES (ATHOS) ON THE NASA DC-8
09/25/2000 - 06/30/2002 FY01: \$189,815 Total: \$472,947
Prin. Invest.: W H BRUNE
Tech. Officer: LARC/J L RAPER, SR
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 2 943 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8107
PENN STATE ROTORCRAFT CENTER OF EXCELLENCE
02/26/1996 - 12/31/2000 FY01: \$0 Total: \$1,962,492
Prin. Invest.: F C SMITH, L N LONG
Tech. Officer: ARC/Y H YU, ARC/J M DAVIS
CASE Category: 41 - AERONAUTICAL ENGR

NCC 2 1057 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8108
CREATING THE PENN STATE ASTROBIOLOGY RESEARCH CENT ER
09/17/1998 - 06/30/2003 FY01: \$1,421,457 Total: \$3,441,143
Prin. Invest.: H OHMOTO
Tech. Officer: ARC/R A GRYMES, ARC/W W DOLCI
CASE Category: 59 - LIFE SCIENCE, OTHER

NCC 2 1122 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8109
A NOVEL OXIDATION-RESISTANT THERMAL PROTECTION MAT ERIAL
06/07/1999 - 08/31/2001 FY01: \$0 Total: \$71,820
Prin. Invest.: L R RADOVIC
Tech. Officer: ARC/C E JOHNSON, ARC/M D REZIN
CASE Category: 49 - ENGINEERING, OTHER

NCC 2 1211 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8110
NEW TECHNIQUES FOR DATA FUSION VISUALIZATION & CON DITION
MONITORING OF COMPLEX SYSTEMS
01/12/2001 - 12/31/2001 FY01: \$235,000 Total: \$235,000
Prin. Invest.: J L WISE
Tech. Officer: ARC/J E PALLIX
CASE Category: 22 - COMPUTER SCIENCE

NCC 2 5307 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8111
DETERMINING THE EFFECT OF CARBON DIOXIDE CLOUDS ON MARTIAN
PALEOCLIMATE
02/11/1999 - 08/31/2000 FY01: \$0 Total: \$83,000
Prin. Invest.: J F KASTING
Tech. Officer: ARC/R E YOUNG, ARC/R M HABERLE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 2 5410 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8112
GREENHOUSE MECHANISMS FOR WARMING EARLY MARS
11/22/2000 - 11/30/2001 FY01: \$45,260 Total: \$45,260
Prin. Invest.: J F KASTINGS
Tech. Officer: ARC/R E YOUNG, ARC/D DESMARAIS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 3 597 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8113
MULTIAXIAL DEFORMATION STUDY OF HIGH TEMPERATURE M ETALLIC
MATERIALS
01/28/1998 - 11/30/2001 FY01: \$0 Total: \$238,796
Prin. Invest.: C J LISSENOEN
Tech. Officer: GRC/B A LERCH, GRC/J R ELLIS
CASE Category: 46 - MECHANICAL ENGR

NCC 3 718 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8114
COMPUTATIONAL AND EXPERIMENTAL STUDY OF ENERGETIC MATERIALS
IN A COUNTERLOW MICROGRAVITY ENVIRONMENT
06/28/1999 - 06/09/2003 FY01: \$18,798 Total: \$61,980
Prin. Invest.: R A YETTER
Tech. Officer: GRC/D L UBRAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NCC 3 767 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8115
LOW CONDUCTIVE THERMAL BARRIER COATINGS PRODUCED B Y ION
BEAM ASSISTED EB-PVD WITH CONTROLLED POROSI
02/01/2000 - 01/31/2003 FY01: \$75,000 Total: \$150,000
Prin. Invest.: D SINGH
Tech. Officer: GRC/J ELDRIDGE
CASE Category: 41 - AERONAUTICAL ENGR

NCC 3 848 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8116
DEFORMATON RESPONSE AND LIFE OF METALLIC COMPOSITI ES
01/12/2001 - 12/17/2001 FY01: \$100,764 Total: \$100,764
Prin. Invest.: D J LISSENDEN
Tech. Officer: GRC/S M ARNOLD
CASE Category: 47 - METAL & MATERIALS ENGR

NCC 5 432 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8117
LUAU II: LEARNING USING ERAST AIRCRAFT MISSIONS FOR UNDER-
STANDING REMOTE SENSING, ATMOSPHERIC SAMP
09/20/1999 - 09/30/2002 FY01: \$194,990 Total: \$538,637
Prin. Invest.: D L GRABOWSKI
Tech. Officer: GSFC/R E GABRYS
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 508 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8118
NASA/GSFC COOPERATIVE ENTERPRISE, PROP # 3552
08/15/2000 - 08/14/2002 FY01: \$0 Total: \$50,000
Prin. Invest.: J E FREDLEY
Tech. Officer: GSFC/M HAGOPIAN
CASE Category: 46 - MECHANICAL ENGR

NGT 1 01018 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8119
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) PREVIOUS
GRANT NO. NGT-1-52249
05/25/2001 - 06/30/2003 FY01: \$12,000 Total: \$12,000
Prin. Invest.: S T KIEMARA
Tech. Officer: LARC/M G BALLE
CASE Category: 41 - AERONAUTICAL ENGR

NGT 1 52191 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8120
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
05/20/1998 - 06/30/2002 FY01: \$24,000 Total: \$78,001
Prin. Invest.: P K MCLAUGHLIN
Tech. Officer: LARC/T NORUM, LARC/B J JANSEN
CASE Category: 41 - AERONAUTICAL ENGR

NGT 1 52249 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8121
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
08/01/2000 - 06/30/2001 FY01: \$12,000 Total: \$22,000
Prin. Invest.: M D LATORELLA
Tech. Officer: LARC/M G BALLIN
CASE Category: 41 - AERONAUTICAL ENGR

NGT 2 52275 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8122
 NATIONAL ROTORCRAFT TECHNOLOGY CENTER (NRTC) ROTOR CRAFT
 CENTER OF EXCELLENCE (RCOE)
 02/14/2001 - 01/31/2002 FY01: \$623,995 Total: \$623,995
Prin. Invest.: E C SMITH
Tech. Officer: GSFC/AWKERR
CASE Category: 41 - AERONAUTICAL ENGR

NGT 3 52359 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8123
 GRADUATE STUDENT RESEARCHERS PROGRAM GRADUATE STUDENT
 RESEARCHERS PROGRAM
 07/15/1999 - 08/14/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: K W WANG
Tech. Officer: GRC/F J MONTEGANI
CASE Category: 49 - ENGINEERING, OTHER

NGT 3 52368 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8124
 GRADUATE STUDENT RESEARCHERS PROGRAM GRADUATE STUDENT
 RESEARCHERS PROGRAM
 06/19/2000 - 08/14/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: D A SANTAVICCA
Tech. Officer: GRC/F J MONTEGANI
CASE Category: 46 - MECHANICAL ENGR

NGT 5 118 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8125
 MODELING OF THE WEST ANTARCTIC ICE SHEET TO ASSESS DIVIDE
 STABILITY & ICE STREAM EVOLUTION/STUDENT
 05/31/2001 - 08/14/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: R B ALLEY
Tech. Officer: GSFC/M S BURRELL
CASE Category: 32 - GEOLOGICAL SCIENCE

NGT 5 119 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8126
 CHARTING THE COURSE OF CIRCUMSTELLAR MATERIAL STUDENT: JOHN
 DEBES
 05/31/2001 - 07/31/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: JIAN GE
Tech. Officer: GSFC/M S BURRELL
CASE Category: 11 - ASTRONOMY

NGT 5 127 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8127
 TESTING BINARY BLACK HOLE CODES IN STRONG FIELD REGIMES
 (STUDENT: DAVID GARRISON)
 06/12/2001 - 06/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: P LAGUNA
Tech. Officer: GSFC/M S BURRELL
CASE Category: 13 - PHYSICS

NGT 5 30060 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8128
 IMPROVING SHORT-TERM QUANTITATIVE PRECIPITATION FO RECASTING
 IN MOUNTAINOUS REGIONS
 10/18/1997 - 08/31/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: A BARROS
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30139 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8129
 STUDIES OF OH AND HO2 IN THE PRESENCE OF CIRRUS CLOUDS NEAR
 THE TROPOPAUSE
 08/27/1998 - 08/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: BRUNES, W SIMPAS
Tech. Officer: HQ/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30171 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8130
 INTEGRATED SATELLITE, MODEL, AND FIELD-BASED STUDI ES OF
 CONTROLSON THE EXTENT OF SURFACE MELTING I
 09/04/1998 - 08/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: R B ALLEY, B DAS
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30193 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8131
 EDDY CORRELATION MEASUREMENT OF CO2 FLUX IN VOLCAN IC-HYDRO-
 THERMAL ENVIRONMENTS SYS/STUDENT J. LEWIC
 08/19/1999 - 08/31/2002 FY01: \$22,000 Total: \$60,668
Prin. Invest.: S BRANTLEY
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30208 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8132
 UNDERSTANDING HIGH TROPICAL CIRRUS/STUDENT: MATTHEW T. BOEHM
 08/18/1999 - 08/31/2001 FY01: \$0 Total: \$44,000
Prin. Invest.: J VERLINDE
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30224 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8133
 A UNIFIED DATABASE MODEL FOR THE EXPLORATION AND ANALYSIS OF
 SPATIOTEMPORAL ENVIRONMENTAL
 08/14/2000 - 08/31/2001 FY01: \$0 Total: \$22,000
Prin. Invest.: D PEUQUET
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30420 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8134
 PREDICTIVE SIGNATURES ASSOCIATED WITH THE DEVELOPM ENT OF
 TROPICALWEATHER SYSTEMS IN THE EAST
 09/07/2001 - 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: G JENKINS, NONE
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 40064 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8135
 SUPPORT TO PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE
 AND FELLOWSHIP PROGRAM.
 02/25/1997 - 01/31/2001 FY01: \$0 Total: \$1,865,000
Prin. Invest.: R DEVON
Tech. Officer: HQ/J DASCH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40090 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8136
 PENNSYLVANIA SPACE GRANT COLLEGE AND FELLOWSHIP PR OGRAM
 02/22/2001 - 01/31/2002 FY01: \$482,500 Total: \$482,500
Prin. Invest.: R DEVON
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50178 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8137
 AN INVESTIGATION OF CARBON DIOXIDE FLUX MEASUREMENTS IN
 VOLCANIC & GEOTHERMAL SYSTEMS/GSRP:WERNER C
 10/09/1997 - 12/31/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: S BRANTLEY
Tech. Officer: HQ/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50236 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8138
 GALAXY DISK EVOLUTION_(STUDENT: DAVID ANDERSEN)
 05/27/1999 - 06/30/2002 FY01: \$11,000 Total: \$55,000
Prin. Invest.: M BERSHADY
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50247 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8139
 DEEP OBSERVATIONS WITH NASA'S CHANDRA X-RAY OBSERVATORY:
 RESOLVING THE DISCRETE SOURCES OF THE COS
 06/02/1999 - 06/30/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: N BRANDT
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50272 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8140
 AOTF SPECTROMETER SYSTEM FOR THE REMOTE DETECTION OF PLANT
 CANOPY NUTRIENT STRESSES IN A NASA CELSS/
 09/08/1999 - 10/31/2000 FY01: \$0 Total: \$22,000
Prin. Invest.: P N WALKER
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50277 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8141
 PEERING THROUGH THE CLOUDS: ABSORPTION STUDIES OF LUMINOUS
 ACTIVE GALAXIES WITH THE NEW GENERA
 06/20/2000 - 07/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: W BRANDT
Tech. Officer: GSFC/L K SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50296 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8142
 COSMIC RAY ENERGISTICS AND MASS BALLOON EXPERIMENT STUDENT:
 ROBERT KILLOREN
 06/26/2000 - 07/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: S COUTU
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 8 52856 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8143
 ADVANCED SPACE PROPULSION USING ANTIMATTER
 07/01/1998 - 08/14/2001 FY01: -\$10,898 Total: \$55,102
Prin. Invest.: G A SMITH
Tech. Officer: MSFC/J F DOWDY
CASE Category: 41 - AERONAUTICAL ENGR

NGT 8 52876 PENNSYLVANIA STATE UNIV. - UNIV. PARK 8144
 ADVANCED SPACE PROPULSION USING ANTIMATTER, (GSRP)
 08/13/1999 - 08/14/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: G A SMITH
Tech. Officer: MSFC/J DOWDY
CASE Category: 46 - MECHANICAL ENGR

NAG 3 2424 PHIL COLLEGE OF PHARMACY & SCIENCE 8145
 IN VIVO EVALUATION OF A NOVEL AND IMPROVED INSTRUMENT FOR
 OBJECTIVE EVALUATION OF OPHTHALMIC LENS O
 05/15/2000 - 08/15/2001 FY01: \$0 Total: \$49,872
Prin. Invest.: D DUBLIN
Tech. Officer: GRC/B S SINGH
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 10094 SWARTHMORE COLLEGE 8146
 HIGH RESOLUTION SPECTROSCOPIC DIAGNOSTICS OF HOT PLASMA IN
 THE STELLAR WIND OF EPSILON CANIS MAJORI
 11/21/2000 - 11/30/2001 FY01: \$23,396 Total: \$23,396
Prin. Invest.: D H COHEN
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 8649 TEMPLE UNIV 8147
 TO DEVELOP A PROTOTYPE AUTOMATED NETWORK FAULT DIAGNOSIS
 SYSTEM FOR A MULTI-CAST BASED IP NETWORK
 07/28/1999 - 01/31/2001 FY01: \$0 Total: \$59,967
Prin. Invest.: S K BISWAS
Tech. Officer: GSFC/B C DRAKE
CASE Category: 29 - MATH/COMPUTER SCI, OTHER

NAG 9 1023 THOMAS JEFFERSON UNIV 8148
 FACTORS MODULATING RADIATION INDUCED G2-DELAYS
 07/01/1998 - 06/30/2001 FY01: \$91,200 Total: \$599,124
Prin. Invest.: C ILIAKIS
Tech. Officer: JSC/F A CUCINOTTA
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 9 1342 THOMAS JEFFERSON UNIV 8149
 GENETICALLY ENGINEERED COLLAGEN II FOR SMALL BIOMATERIALS
 08/22/2001 - 09/30/2004 FY01: \$54,000 Total: \$54,000
Prin. Invest.: A FERTALA
Tech. Officer: JSC/D RISEN
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 3 2172 UNIV OF PENNSYLVANIA 8150
 COLLOIDAL ASSEMBLY IN ENTROPICALLY DRIVEN LOW-VOLUME FRACTION
 BINARY PARTICLE SUSPENSION
 06/08/1998 - 02/28/2002 FY01: \$207,250 Total: \$629,241
Prin. Invest.: A G YODH
Tech. Officer: GRC/R A WILKINSEN
CASE Category: 13 - PHYSICS

NAG 3 2417 UNIV OF PENNSYLVANIA 8151
 ENGINEERING NOVEL BIOCOLLOID SUSPENSIONS ENGINEERING NOVEL
 BIOCOLLOID SUSPENSIONS
 05/08/2000 - 11/30/2003 FY01: \$66,500 Total: \$141,500
Prin. Invest.: D A HAMMER
Tech. Officer: GRC/D W GRIFFIN
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 8767 UNIV OF PENNSYLVANIA 8152
 COUPLING COMPUTER VISION AND ASTRONAUT PERFORMANCE FOR
 MULTI-PERSON MODELING AND ANALYSIS
 08/25/1999 - 08/31/2001 FY01: \$190,894 Total: \$399,750
Prin. Invest.: D N METAXAS
Tech. Officer: GSFC/R CROUCH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9194 UNIV OF PENNSYLVANIA 8153
 MICROWAVE FOREGROUNDS AND THEIR POLARIZATION (PI TRANSF. INST
 ADV STUDIES NAG5-6034)
 03/08/2000 - 09/30/2002 FY01: \$93,578 Total: \$249,941
Prin. Invest.: M TEGMARK
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9229 UNIV OF PENNSYLVANIA 8154
 BLAST: A BALLOON-BORNE LARGE-APERTURE SUB-MILLIMET ER TELE-
 SCOPE - A COMPREHENSIVE PLAN FOR GALAC
 03/20/2000 - 03/30/2002 FY01: \$310,000 Total: \$621,000
Prin. Invest.: M DEVLIN
Tech. Officer: GSFC/G STRINGFELLOW
CASE Category: 11 - ASTRONOMY

NAG 5 9241 UNIV OF PENNSYLVANIA 8155
 SELF-HEALING OF CARBON NANOTUBES
 03/10/2000 - 03/14/2001 FY01: \$0 Total: \$22,190
Prin. Invest.: D LUZZI
Tech. Officer: GSFC/H SHAW
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 5 10731 UNIV OF PENNSYLVANIA 8156
 A VERY WIDE AREA SURVEY FOR TRANS-NEPTUNIAN OBJECTS
 04/11/2001 - 04/14/2002 FY01: \$35,000 Total: \$35,000
Prin. Invest.: C ALCOCK
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 10923 UNIV OF PENNSYLVANIA 8157
 MAPPING LARGE-SCALE STRUCTURE IN THE UNIVERSE
 05/22/2001 - 03/14/2002 FY01: \$129,447 Total: \$129,447
Prin. Invest.: B JAIN
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 10924 UNIV OF PENNSYLVANIA 8158
 THE CLUSTERING OF GALAXIES AND DARK MATTER AT INTERMEDIATE
 REDSHIFTS(ATP 99)
 05/22/2001 - 03/14/2002 FY01: \$67,762 Total: \$67,762
Prin. Invest.: B JAIN
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 11099 UNIV OF PENNSYLVANIA 8159
 CMB POLARIZATION ANALYSIS (L TSA 2000)
 07/24/2001 - 10/31/2002 FY01: \$91,884 Total: \$91,884
Prin. Invest.: M TEGMARK
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 8 1350 UNIV OF PENNSYLVANIA 8160
 FOR RESEARCH ENTITLED: QUANITATIVE ANALYSIS INTER ACTIONS
 DURING MEMBRANE PROTEIN CRYSTALLIZATION"
 06/19/1997 - 10/31/2001 FY01: \$173,411 Total: \$847,373
Prin. Invest.: P LOLL*Prin. Invest.:* NONE
Tech. Officer: MSFC/R CROMISE, MSFC/C R TALLEY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1483 UNIV OF PENNSYLVANIA 8161
 SURFACE TRANSFORMATION OF REACTIVE GLASS IN A MIRCROGRAVITY
 ENVIRONMENT
 02/03/1998 - 01/31/2002 FY01: \$99,750 Total: \$380,250
Prin. Invest.: P DUCHEYNE
Tech. Officer: MSFC/P M DOTY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1683 UNIV OF PENNSYLVANIA 8162
 RESEARCH POLYOMOSOMES: TOUGH, GRANT VESICLES FROM BLOCK
 COPOLYMERS
 05/26/2000 - 11/30/2003 FY01: \$114,000 Total: \$164,000
Prin. Invest.: D A
Tech. Officer: MSFC/P DOTY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 9 1047 UNIV OF PENNSYLVANIA 8163
 MEASURE UROPONTIN FROM SAMPLE COLLECTION
 07/21/1998 - 07/31/2000 FY01: -\$1 Total: \$11,999
Prin. Invest.: J R HOYER
Tech. Officer: JSC/C SAMS
CASE Category: 56 - MEDICL

NAG 9 1161 UNIV OF PENNSYLVANIA 8164
 PREDICTING VULNERABILITY OF PERFORMANCE IMPAIRMENT FROM
 SLEEP LOSS
 09/21/1999 - 09/20/2002 FY01: \$167,500 Total: \$317,500
Prin. Invest.: H VAN D
Tech. Officer: JSC/C W LLOYD
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 9 1265 UNIV OF PENNSYLVANIA 8165
 ENVIRONMENTAL BIOMEDICAL STRESS DATA
 12/14/2000 - 10/31/2001 FY01: \$70,000 Total: \$70,000
Prin. Invest.: C J LAMBERTSEN
Tech. Officer: JSC/J STANFORD
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 9 1279 UNIV OF PENNSYLVANIA 8166
 CREW TASK SIMULATION FOR MAINTENANCE, TRAINING AND SAFETY
 02/22/2001 - 09/30/2003 FY01: \$142,500 Total: \$142,500
Prin. Invest.: N BADLER
Tech. Officer: JSC/B WOOLFORD
CASE Category: 56 - MEDICL

NAG 9 1357 UNIV OF PENNSYLVANIA 8167
 IMPACT OF MICROGRAVITY ON HUMAN OSTEBLAST LIFE HIS TORY:
 EXPERIMENTAL INVESTIGATION & NUMERICAL STUD
 08/22/2001 - 09/30/2004 FY01: \$68,000 Total: \$68,000
Prin. Invest.: L M SHAPIRO
Tech. Officer: JSC/D RISEN
CASE Category: 59 - LIFE SCIENCE, OTHER

NGT 5 30165 UNIV OF PENNSYLVANIA 8168
 DEVELOPMENT OF A TIME RESOLVED VISIBLE AND ULTRAVI OLET SPEC-
 TROSCOPICTECHNIQUE FOR MEASURING RES
 08/31/1998 - 08/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: H DAI, L LETENDRE
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 50210 **UNIV OF PENNSYLVANIA** **8169**
 THE INFLUENCE OF MOLECULAR PROPERTIES ON THE DYNAMICS OF
 CELL ADHESION
 07/10/1998 - 06/30/2000 FY01: \$0 Total: \$44,000
Prin. Invest.: D A HAMMER
Tech. Officer: HQ/A NURRIDIN
CASE Category: 43 - CHEMICAL ENGR

NGT 5 50267 **UNIV OF PENNSYLVANIA** **8170**
 ENGINEERING BIOADHESIVE COLLOIDAL SUSPENSIONS
 07/07/1999 - 06/30/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: D A HAMMER
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 2 1186 **UNIV OF PITTSBURGH** **8171**
 VESTIBULO-AUTONOMIC CIRCUITS
 03/17/1998 - 03/31/2002 FY01: \$0 Total: \$542,675
Prin. Invest.: C D BALABAN, C A SCUDDER
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 3 1833 **UNIV OF PITTSBURGH** **8172**
 THE DISSOLUTION OF AN INTERFAC BETWEEN MISCIBLE LIQUIDS
 05/28/1996 - 05/28/2000 FY01: -\$60,000 Total: \$115,000
Prin. Invest.: J V MAHER
Tech. Officer: GRC/R A WILKINSON
CASE Category: 13 - PHYSICS

NAG 3 2132 **UNIV OF PITTSBURGH** **8173**
 SMALL - SCALE STRUCTURE OF TURBULENCE SMALL STRUCTURE OF
 TURBULENCE
 02/27/1998 - 01/20/2001 FY01: \$0 Total: \$70,000
Prin. Invest.: W GOLDBURG
Tech. Officer: GRC/R SKARCH
CASE Category: 13 - PHYSICS

NAG 3 2149 **UNIV OF PITTSBURGH** **8174**
 SPECTROSCOPY STUDIES OF SILICON CARBIDE FOR HIGH POWERED
 APPLICATIONS
 04/02/1998 - 01/24/2001 FY01: \$0 Total: \$200,000
Prin. Invest.: W J CHOYKE, R P DEVATY
Tech. Officer: GRC/J A POWELL
CASE Category: 13 - PHYSICS

NAG 3 2396 **UNIV OF PITTSBURGH** **8175**
 FORCED TWO-DIMENSIONAL TURBULENCE IN FREELY SUSPENDED FILMS
 04/14/2000 - 11/30/2003 FY01: \$95,000 Total: \$170,000
Prin. Invest.: D WI
Tech. Officer: GRC/F P CHIARAMONTE
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2538 **UNIV OF PITTSBURGH** **8176**
 FUNDING
 02/06/2001 - 01/19/2002 FY01: \$60,015 Total: \$60,015
Prin. Invest.: W J CHOYKE
Tech. Officer: GRC/D J LARKIN
CASE Category: 13 - PHYSICS

NAG 5 661 **UNIV OF PITTSBURGH** **8177**
 SUBORBITAL PROGRAM IN MAGNETOSPHERIC & IONOSPHERIC PHYSICS
 05/04/1990 - 10/31/2001 FY01: \$0 Total: \$1,006,693
Prin. Invest.: E C ZIPF
Tech. Officer: GSFC/W B JOHNSON, GSFC/R H PLESS
CASE Category: 13 - PHYSICS

NAG 5 3642 **UNIV OF PITTSBURGH** **8178**
 GEOLOGIC MAPPING OF REULL VALLIS, MARS
 02/13/1997 - 09/30/2000 FY01: \$0 Total: \$120,565
Prin. Invest.: D A CROWN
Tech. Officer: GSFC/J G GRANT
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 3723 **UNIV OF PITTSBURGH** **8179**
 PHOTOMETRIC ANALYSIS OF SPACECRAFT PLANETARY IMAGE
 02/12/1997 - 10/31/2000 FY01: \$0 Total: \$305,442
Prin. Invest.: S W HAPKE
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 4116 **UNIV OF PITTSBURGH** **8180**
 ELECTRON-ION RECOMBINATION PROCESSES RELATING TO P
 03/03/1997 - 12/31/2001 FY01: \$65,000 Total: \$399,775
Prin. Invest.: D JOHNSON
Tech. Officer: GSFC/J BERGSTRAHL
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 5267 **UNIV OF PITTSBURGH** **8181**
 LABORATORY SUPPORT FOR THE CRYOGENIC WHOLE AIR SAMPLING OF
 CARBON DIOXIDE IN THE UPPER MESOSPHERE
 06/01/2000 - 05/24/2003 FY01: \$68,870 Total: \$131,870
Prin. Invest.: E ZIPF
Tech. Officer: GSFC/J C BINTON
CASE Category: 13 - PHYSICS

NAG 5 6164 **UNIV OF PITTSBURGH** **8182**
 A CROSS DISCIPLINARY LITERACY COURSE ON EARTH SYSTEMS IN THE 21ST
 CENTURY.
 08/27/1997 - 12/30/2001 FY01: \$19,839 Total: \$66,868
Prin. Invest.: A A PANAH
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7930 **UNIV OF PITTSBURGH** **8183**
 THE NATURE AND EVOLUTION OF THE GASEOUS AND STELLAR
 COMPONENTS OF THE GALAXY POPULATION ASSOCIATE
 12/14/1998 - 12/14/2001 FY01: \$108,598 Total: \$310,981
Prin. Invest.: D A TURNSHEK
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8211 **UNIV OF PITTSBURGH** **8184**
 QUANTITATIVE SPECTROSCOPIC ANALYSES OF MASSIVE STARS (LTS98)
 02/26/1999 - 02/28/2002 FY01: \$75,419 Total: \$227,653
Prin. Invest.: J D HILLIER
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

<p>NAG 5 8531 UNIV OF PITTSBURGH 8185 MINIATURE IN SITU GEOCHRONOLOGY INSTRUMENT FOR PLANETARY SURFACE DEPLOYMENT: BREADBOARD DEVELOPME 06/15/1999 – 06/30/2001 FY01: \$0 Total: \$121,128 <i>Prin. Invest.:</i> B W STEWART <i>Tech. Officer:</i> GSFC/B BETTS <i>CASE Category:</i> 11 – ASTRONOMY</p>	<p>NAG 5 10222 UNIV OF PITTSBURGH 8193 REMOTE SENSING OF PLANETARY SURFACES: MODELING & APPLICA- TIONS 01/11/2001 – 01/14/2002 FY01: \$74,200 Total: \$74,200 <i>Prin. Invest.:</i> B W HAPKE <i>Tech. Officer:</i> GSFC/D SENSKE <i>CASE Category:</i> 32 – GEOLOGICAL SCIENCE</p>
<p>NAG 5 8546 UNIV OF PITTSBURGH 8186 UNRAVELING THE EVOLUTION OF GALAXIES (L TSA 98) 05/21/1999 – 03/31/2002 FY01: \$95,395 Total: \$279,861 <i>Prin. Invest.:</i> A CONNOLLY <i>Tech. Officer:</i> GSFC/D K WEST <i>CASE Category:</i> 11 – ASTRONOMY</p>	<p>NAG 5 10377 UNIV OF PITTSBURGH 8194 TOWARDS UNDERSTANDING STARBURST GALAXIES AT LOW & HIGH REDSHIFT (FUSE-00) 02/08/2001 – 02/14/2002 FY01: \$17,000 Total: \$17,000 <i>Prin. Invest.:</i> J D HILLIER <i>Tech. Officer:</i> GSFC/G SONNEBORN <i>CASE Category:</i> 11 – ASTRONOMY</p>
<p>NAG 5 9051 UNIV OF PITTSBURGH 8187 AN INTERDISCIPLINARY TEACHER TRAINING PROGRAM ON EARTH SYSTEM SCIENCE USING INFORMATION TECHNOLOGY 02/14/2000 – 02/14/2002 FY01: \$36,469 Total: \$76,692 <i>Prin. Invest.:</i> A I PANAH <i>Tech. Officer:</i> GSFC/N KHAZENIE <i>CASE Category:</i> 39 – ENVIRONMENTAL SCI, OTHER</p>	<p>NAG 5 10378 UNIV OF PITTSBURGH 8195 JUST WHAT IS ETA CARINAE (FUSE 00) 02/08/2001 – 02/14/2002 FY01: \$30,500 Total: \$30,500 <i>Prin. Invest.:</i> J D HILLIER <i>Tech. Officer:</i> GSFC/G SONNEBORN <i>CASE Category:</i> 11 – ASTRONOMY</p>
<p>NAG 5 9399 UNIV OF PITTSBURGH 8188 MULTIFREQUENCY, MULTIREOLUTION IMAGE DETECTION 04/12/2000 – 03/31/2001 FY01: \$0 Total: \$77,300 <i>Prin. Invest.:</i> A CONNOLLY <i>Tech. Officer:</i> GSFC/J BREDEKAMP <i>CASE Category:</i> 11 – ASTRONOMY</p>	<p>NAG 5 10628 UNIV OF PITTSBURGH 8196 ASTROMETRIC OBSERVATION OF PLANETARY SYSTEMS DISCO VERED BY RADIALVELOCITY TECHNIQUES 03/17/2001 – 03/14/2002 FY01: \$24,800 Total: \$24,800 <i>Prin. Invest.:</i> G GATEWOOD <i>Tech. Officer:</i> GSFC/J M BOYCE <i>CASE Category:</i> 11 – ASTRONOMY</p>
<p>NAG 5 9438 UNIV OF PITTSBURGH 8189 MULTI-SPECTRAL REMOTE SENSING OF BRUSH FIRE SCARS IN ARID URBAN REGIONS:ANALYSIS OF FUTURE FIRE AND 04/14/2000 – 04/30/2002 FY01: \$59,356 Total: \$105,703 <i>Prin. Invest.:</i> M S RAMSEY <i>Tech. Officer:</i> GSFC/H V FREY <i>CASE Category:</i> 32 – GEOLOGICAL SCIENCE</p>	<p>NAG 8 1360 UNIV OF PITTSBURGH 8197 RESEARCH "USE OF NASA BIOREACTOR TO STUDY CELL CYCLE REGULA- TION" 06/05/1997 – 11/29/2000 FY01: -\$95,522 Total: \$271,906 <i>Prin. Invest.:</i> C TALLEY <i>Tech. Officer:</i> MSFC/P VAUGHN <i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER</p>
<p>NAG 5 9439 UNIV OF PITTSBURGH 8190 MONITORING THE HAZARDS OF SILICI VOLCANOES WITH REMOTE SENSING 04/14/2000 – 04/30/2002 FY01: \$83,465 Total: \$124,715 <i>Prin. Invest.:</i> M S RAMSEY <i>Tech. Officer:</i> GSFC/H V FREY <i>CASE Category:</i> 32 – GEOLOGICAL SCIENCE</p>	<p>NAG 8 1587 UNIV OF PITTSBURGH 8198 R/S FREELY SYSPENED LIQUID FILMS AND THEIR APPLICATIONS IN BIOLOGICAL RESEARCH 01/28/1999 – 11/30/2002 FY01: \$54,050 Total: \$283,050 <i>Prin. Invest.:</i> X L WU <i>Tech. Officer:</i> MSFC/B GUYNES <i>CASE Category:</i> 61 – PSYCHOLOGY BIOLOGY</p>
<p>NAG 5 9466 UNIV OF PITTSBURGH 8191 EMPLACEMENT OF TERRESTRIAL & PLANETARY LAVA FLOWS 04/18/2000 – 04/14/2003 FY01: \$0 Total: \$58,200 <i>Prin. Invest.:</i> D A CROWN <i>Tech. Officer:</i> GSFC/J A GRANT <i>CASE Category:</i> 32 – GEOLOGICAL SCIENCE</p>	<p>NAG 9 835 UNIV OF PITTSBURGH 8199 GROWTH, METABOLISM, AND DIFFERENTIATION OF MIP 09/19/1995 – 03/17/2000 FY01: -\$99 Total: \$759,860 <i>Prin. Invest.:</i> J M JESSUP <i>Tech. Officer:</i> JSC/N PELLIS <i>CASE Category:</i> 51 – BIOLOGY (EXCLUDING ENVIR)</p>
<p>NAG 5 9836 UNIV OF PITTSBURGH 8192 MULTI-DIMENSIONAL RADIATIVE TRANSFER IN THE CIRCUM STELLAR MEDIUM 10/05/2000 – 10/14/2001 FY01: \$11,736 Total: \$11,736 <i>Prin. Invest.:</i> D HILLIER <i>Tech. Officer:</i> GSFC/S HEAP <i>CASE Category:</i> 11 – ASTRONOMY</p>	<p>NAG 9 1036 UNIV OF PITTSBURGH 8200 SLEEPING SHORT 06/22/1998 – 07/26/2001 FY01: \$217,550 Total: \$695,951 <i>Prin. Invest.:</i> T H MONK <i>Tech. Officer:</i> JSC/C W LLOYD <i>CASE Category:</i> 59 – LIFE SCIENCE, OTHER</p>

NAG 9 1234 **UNIV OF PITTSBURGH** **8201**
 SLEEP STUDY
 10/18/2000 – 09/30/2003 FY01: \$267,523 Total: \$267,523
Prin. Invest.: T H MONK
Tech. Officer: JSC/C W LLOYD
CASE Category: 56 – MEDICL

NAS 8 97111 **UNIV OF PITTSBURGH** **8202**
 OPERATION AND MANAGEMENT OF THE NASA MID-ATLANTIC
 TECHNOLOGY CENTER
 01/29/1997 – 02/23/2001 FY01: \$354,998 Total: \$5,354,999
Prin. Invest.: L HUMMEL
Tech. Officer: LARC/P I CARAWAY
CASE Category: 42 – ASTRONAUTICAL ENGR

NGT 5 125 **UNIV OF PITTSBURGH** **8203**
 EVOLUTION OF THE MARTIAN HIGHLANDS: IMPLICATIONS FROM
 DRAINAGE BASIN CHARACTERISTICS AND VALLEY
 06/11/2001 – 06/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: D A CROWN
Tech. Officer: GSFC/M S BURRELL
CASE Category: 32 – GEOLOGICAL SCIENCE

NGT 5 50174 **UNIV OF PITTSBURGH** **8204**
 AN INVESTIGATION OF RAMAN SCATTERING IN SYMBIOTIC
 STARS (STUDENT – BIRRIEL, J.)
 05/22/1998 – 10/31/2000 FY01: -\$19,252 Total: \$46,748
Prin. Invest.: R SCHULTE-LADBECK
Tech. Officer: HQ/A NURRIDIN
CASE Category: 11 – ASTRONOMY

NGT 5 50207 **UNIV OF PITTSBURGH** **8205**
 TWO-DIMENSIONAL HYDRODYNAMICS IN SOAP FILMS UNDERGOING
 ELECTROMAGNETIC CONVECTION
 07/09/1998 – 06/30/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: X WU
Tech. Officer: HQ/A NURRIDIN
CASE Category: 13 – PHYSICS

NGT 5 50252 **UNIV OF PITTSBURGH** **8206**
 AUTOMATED LEARNING WITH PROBABILISTIC NETWORKS FOR STUDY &
 EXPLORATION OF THE UNIVERSE/STUDENT: DENV
 06/08/1999 – 06/30/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: M DRUZDZEL
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 50256 **UNIV OF PITTSBURGH** **8207**
 THE ROLE OF THE CEREBELLUM IN CARDIOVASCULAR RESPONSES TO
 CHANGES IN GRAVITY STUDENT: MICHAEL HOLME
 07/07/1999 – 06/30/2001 FY01: \$0 Total: \$44,000
Prin. Invest.: B J YATES
Tech. Officer: GSFC/L SMITH
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 50292 **UNIV OF PITTSBURGH** **8208**
 MULTISENSORY INTEGRATION IN THE VESTIBULAR NUCLEI: IMPLICATIONS
 FOR RECOVERY OF FUNCTION FOLLOWING
 07/06/2000 – 06/30/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: B J YATES
Tech. Officer: GSFC/L SMITH
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 50318 **UNIV OF PITTSBURGH** **8209**
 CORTICAL REPRESENTATION OF SPACE IN HUMANS/STUDENT ELISHA
 MERRIAM
 07/11/2000 – 07/14/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: C L COLBY
Tech. Officer: GSFC/L SMITH
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 3136 **VILLANOVA UNIV** **8210**
 EVOLUTION OF THE CORONAL STRUCTURE OF THE SUN IN TIME
 11/01/1995 – 11/14/2000 FY01: \$0 Total: \$52,646
Prin. Invest.: E F GUINAN
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 7113 **VILLANOVA UNIV** **8211**
 DETERMINING THE PHYSICAL PROPERTIES OF THE MAIN SEQUENCE B
 STARS
 03/25/1998 – 03/31/2002 FY01: \$0 Total: \$44,393
Prin. Invest.: E FITZPATRICK
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 8388 **VILLANOVA UNIV** **8212**
 NEW INSIGHTS INTO THE STRUCTURE & EVOLUTION OF CV WHITE
 DWARFS USING THE IUE NEWSIPS FINAL ARCHIVE
 03/05/1999 – 03/14/2002 FY01: \$0 Total: \$81,017
Prin. Invest.: E M SION
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 8985 **VILLANOVA UNIV** **8213**
 SOLAR PHYSICS WITH FUSE: FUV STUDIES OF SOLAR ANALOGS & TWINS
 – FUSE
 01/27/2000 – 01/31/2002 FY01: \$0 Total: \$65,700
Prin. Invest.: E F GUINAN
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 – ASTRONOMY

NAG 5 10369 **VILLANOVA UNIV** **8214**
 THE COSMIC DISTANCE SCALE: AN ACCURATE DISTANCE TO THE LMC
 USING ECLIPSING BINARIES (FUSE 00)
 02/08/2001 – 02/14/2002 FY01: \$62,500 Total: \$62,500
Prin. Invest.: E F GUINAN
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 – ASTRONOMY

NAG 5 10385 **VILLANOVA UNIV** **8215**
 A STUDY OF THE ATMOSPHERES OF THE MAIN SEQUENCE B STARS (FUSE
 00)
 02/08/2001 – 02/14/2002 FY01: \$42,500 Total: \$42,500
Prin. Invest.: E L FITZPATRICK
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 – ASTRONOMY

NAG 5 10386 **VILLANOVA UNIV** **8216**
 PHYSICS OF BOUNDARY LAYER WHITE DWARF ACCRETION IN DWARF
 NOVAE (FUSE 00)
 02/08/2001 – 05/31/2002 FY01: \$57,900 Total: \$57,900
Prin. Invest.: E M SION
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 – ASTRONOMY

NAG 5 10387 **VILLANOVA UNIV** **8217**
 THE FUV SUN IN TIME A STUDY OF SOLAR ANALOGS OF DIFFERENT AGES
 (FUSE 00)
 02/08/2001 - 02/14/2002 FY01: \$30,400 Total: \$30,400
Prin. Invest.: E F GUINAN
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 10686 **VILLANOVA UNIV** **8218**
 CNO ABUNDANCES IN LMC BN AND BC SUPERGIANTS (FUSE 2000)
 04/04/2001 - 04/14/2002 FY01: \$27,208 Total: \$27,208
Prin. Invest.: E L FITPATRICK
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

RHODE ISLAND

NAG 1 2070 **BROWN UNIV** **8219**
 HI ORDER DISCONTINUOUS GALERKIN METHODS FOR CONVECTION
 DOMINATED PROBLEMS W/APPLIC TO AEROACOUSTICS
 05/14/1998 - 11/30/2000 FY01: -\$1 Total: \$44,999
Prin. Invest.: C SHU
Tech. Officer: LARC/H L ATKINS
CASE Category: 41 - AERONAUTICAL ENGR

NAG 1 2201 **BROWN UNIV** **8220**
 REGRESSION MODELS AND ALGORITHMS FOR AERODYNAMICS APPLICATIONS
 06/01/1999 - 09/30/2000 FY01: \$0 Total: \$50,000
Prin. Invest.: A E PEARSON
Tech. Officer: LARC/P C MURPHY
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 1927 **BROWN UNIV** **8221**
 DYNAMICS AND MORPHOLOGY OF SUPERFLUID HELIUM DROPS IN A
 MICROGRAVITY ENVIRONMENT
 07/24/1996 - 01/08/2001 FY01: \$25,000 Total: \$675,000
Prin. Invest.: G M SEIDEL, H MARIS
Tech. Officer: GRC/B S SINGH
CASE Category: 13 - PHYSICS

NAG 3 1929 **BROWN UNIV** **8222**
 KINETIC AND THERMODYNAMIC STUDIES OF MELTING-FREEZING OF
 HELIUM MICROGRAVITY
 07/24/1996 - 05/31/2002 FY01: \$49,923 Total: \$403,923
Prin. Invest.: D ELBAUM, J M KOSTERLITZ
Tech. Officer: GRC/B S SINGH
CASE Category: 13 - PHYSICS

NAG 5 3659 **BROWN UNIV** **8223**
 PLANETARY GEOPHYSICS AND TECTONICS
 03/07/1997 - 10/31/2001 FY01: \$77,000 Total: \$379,644
Prin. Invest.: E PARMENTIER
Tech. Officer: GSFC/J G GRANTS
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 3871 **BROWN UNIV** **8224**
 REFLECTANCE EXPERIMENT LABORATORY
 02/14/1997 - 09/30/2001 FY01: \$108,000 Total: \$521,039
Prin. Invest.: C M PIETERS
Tech. Officer: GSFC/J G GRANT
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 3872 **BROWN UNIV** **8225**
 BROWN REGIONAL PLANETARY DATA CENTER
 02/14/1997 - 09/30/2001 FY01: \$0 Total: \$216,769
Prin. Invest.: P H SCHULTZ
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 3877 **BROWN UNIV** **8226**
 PLANETARY IMPACT PROCESSES
 02/14/1997 - 09/30/2002 FY01: \$145,000 Total: \$704,152
Prin. Invest.: P H SCHULTZ
Tech. Officer: GSFC/D G SENSKE
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 3933 **BROWN UNIV** **8227**
 GEOLOGICAL MAPPING OF VENUS: ORIGIN OF BASINS AND STRATIGRAPHY
 02/13/1997 - 02/14/2002 FY01: \$88,200 Total: \$290,950
Prin. Invest.: D W HEAD,III
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 4366 **BROWN UNIV** **8228**
 REMOTE SENSING INFO APPLIED TO GEOLOGICAL STUDIES
 04/29/1997 - 12/31/2000 FY01: \$0 Total: \$170,000
Prin. Invest.: C M PIETERS
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 4585 **BROWN UNIV** **8229**
 TECTONIC DEFORMATION PATTERNS ON VENUS: RELATION LITHOSPHERIC
 PROCESSES AND EVOLUTION
 05/20/1997 - 09/30/2000 FY01: \$0 Total: \$215,000
Prin. Invest.: J W HEAD,III
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 4723 **BROWN UNIV** **8230**
 PLANETARY VOLCANIC PROCESSES: SHALLOW MAGMA RESERVOIR
 DIVERSITY OF ERUPTION CONDITIONS
 06/11/1997 - 09/30/2000 FY01: \$0 Total: \$322,000
Prin. Invest.: J W HEAD,III
Tech. Officer: GSFC/P G ROGERS
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 5133 **BROWN UNIV** **8231**
 A HIGH RESOLUTION X-RAY DETECTOR USING MAGNETIC BOLOMETERS
 03/12/1997 - 09/30/2001 FY01: \$0 Total: \$400,000
Prin. Invest.: G SEIDEL
Tech. Officer: GSFC/B FLOWERS
CASE Category: 13 - PHYSICS

NAG 5 6003 **BROWN UNIV** **8232**
 THE DYNAMICS OF A SEMI-ARID REGION IN RESPONSE TO POLICY
 08/26/1997 - 12/31/2000 FY01: \$0 Total: \$355,000
Prin. Invest.: J MUSTART
Tech. Officer: GSFC/A JANETOS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6144 **BROWN UNIV** **8233**
 MARS OBSERVER LASER ALTIMETER (MOLA) PARTICIPATION
 08/19/1997 – 12/31/2001 FY01: \$100,000 Total: \$560,000
Prin. Invest.: J W HEAD
Tech. Officer: GSFC/D E SMITH
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 7082 **BROWN UNIV** **8234**
 AN ULTRASPECTROMETER (MEMUS) FOR PLANETARY SURFACE ANALYSIS
 03/10/1998 – 03/31/2002 FY01: \$0 Total: \$455,444
Prin. Invest.: P H SCHULTZ
Tech. Officer: GSFC/B CAMPBELL
CASE Category: 11 – ASTRONOMY

NAG 5 7866 **BROWN UNIV** **8235**
 DIAPYCNISM AND SOLID-STATE CONVECTION ON EUROPA
 01/12/1999 – 12/31/2001 FY01: \$0 Total: \$80,000
Prin. Invest.: D T PAPPALARDO
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 – ASTRONOMY

NAG 5 8046 **BROWN UNIV** **8236**
 ORIGIN, STRUCTURE, AND EVOLUTION OF GROOVED TERRAIN ON GANYMEDE AND COMPARISON TO EUROPA
 01/15/1999 – 01/14/2002 FY01: \$0 Total: \$126,523
Prin. Invest.: D T PAPPALARDO
Tech. Officer: GSFC/D BOGAN
CASE Category: 11 – ASTRONOMY

NAG 5 8144 **BROWN UNIV** **8237**
 CRYOMAGMATISM ON GANYMEDE AND EUROPA: PRINCIPLES OF EMPLACEMENT AND RUPTURE AND COMPARISON TO O
 02/01/1999 – 09/30/2000 FY01: \$0 Total: \$105,000
Prin. Invest.: D W HEAD, 111
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 – ASTRONOMY

NAG 5 8174 **BROWN UNIV** **8238**
 KINETICS OF MELTING AND DISSOLUTION IN LUNAR MATERIALS
 02/04/1999 – 04/30/2002 FY01: \$63,000 Total: \$188,000
Prin. Invest.: D C HESS
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 8181 **BROWN UNIV** **8239**
 EXPERIMENTS AND SPECTRAL STUDIES OF MARTIAN VOLCANIC ROCKS: IMPLICATIONS FOR THE ORIGIN OF PATHFINDER
 02/16/1999 – 03/31/2002 FY01: \$58,000 Total: \$169,300
Prin. Invest.: M J RUTHERFORD
Tech. Officer: HQ/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 8283 **BROWN UNIV** **8240**
 NORTHERN LOWLANDS OF MARS: TESTS FOR THE PRESENCE OF LAKES, SEAS AND OCEANS IN THE PAST HISTORY OF
 02/19/1999 – 02/28/2001 FY01: \$0 Total: \$158,400
Prin. Invest.: J W HEAD
Tech. Officer: HQ/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 8302 **BROWN UNIV** **8241**
 MINERALOGY OF LUNAR MATERIALS FROM REFLECTANCE SPECTROSCOPY
 03/05/1999 – 03/31/2001 FY01: \$0 Total: \$104,000
Prin. Invest.: D M PIETERS
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 8972 **BROWN UNIV** **8242**
 MINERALOGY OF THE MARTIAN SURFACE: CRUSTAL COMPOSITION TO SURFACE PROCESSES
 01/28/2000 – 02/28/2002 FY01: \$74,000 Total: \$144,300
Prin. Invest.: J F MUSTARD
Tech. Officer: GSFC/J GRANT
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 9287 **BROWN UNIV** **8243**
 REMOTE SENSING INFORMATION APPLIED TO GEOLOGICAL STUDIES OF PLANETS
 03/16/2000 – 03/31/2002 FY01: \$10,000 Total: \$48,000
Prin. Invest.: C PIETERS
Tech. Officer: GSFC/J GRANT
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 9453 **BROWN UNIV** **8244**
 BLAST: A BALLOON-BORNE LARGE-APERTURE SUB-MILLIMETER TELESCOPE – A COMPREHENSIVE PLAN FOR GALAC
 04/13/2000 – 04/14/2002 FY01: \$115,000 Total: \$215,000
Prin. Invest.: G TUCKER
Tech. Officer: GSFC/G STRINGFELLOW
CASE Category: 11 – ASTRONOMY

NAG 5 9522 **BROWN UNIV** **8245**
 EXPERIMENTAL STUDY OF LUNAR MAGMAS & MAGMATIC PROCESSES
 04/26/2000 – 04/30/2002 FY01: \$46,000 Total: \$92,000
Prin. Invest.: M J RUTHERFORD
Tech. Officer: GSFC/D NAVA
CASE Category: 11 – ASTRONOMY

NAG 5 9589 **BROWN UNIV** **8246**
 REFLECTANCE & THERMAL INFRARED SPECTROSCOPY OF MARS: RELATIONSHIP BETWEEN ISM & TES FOR COMPOSITION
 05/12/2000 – 05/14/2002 FY01: \$50,000 Total: \$103,600
Prin. Invest.: J F MUSTARD
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 9780 **BROWN UNIV** **8247**
 MARTIAN VOLCANIC EDIFICE & DEPOSIT CHARACTERIZATION: VOLCANIC STYLE, MAGMA TRANSPORT & EDIFICE/CALDERA
 07/10/2000 – 06/30/2002 FY01: \$73,000 Total: \$146,000
Prin. Invest.: J W HEAD
Tech. Officer: GSFC/J BOYCE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 10010 **BROWN UNIV** **8248**
 REGOLITH PROCESSES AND THE COMPOSITIONAL DIVERSITY OF MARE
 BASALTS
 09/25/2000 – 09/30/2002 FY01: \$40,000 Total: \$74,000
Prin. Invest.: C M PIETERS
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 10031 **BROWN UNIV** **8249**
 ANALYSIS OF LUNAR PROSPECTOR MAGNETOMETER/ELECTRON
 REFLECTOMETER (MAG/ER) EXPERIMENT DATA TO ASSIST
 09/28/2000 – 09/30/2002 FY01: \$35,000 Total: \$67,000
Prin. Invest.: J W HEAD III
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 10188 **BROWN UNIV** **8250**
 NORTHEAST REGIONAL PLANETARY DATA CENTER
 01/03/2001 – 01/14/2002 FY01: \$50,900 Total: \$50,900
Prin. Invest.: P H SCHULTZ
Tech. Officer: GSFC/D SENSKE
CASE Category: 11 – ASTRONOMY

NAG 5 10383 **BROWN UNIV** **8251**
 DETECTORS WITH BREAK THROUGH ENERGY RESOLUTION USING
 MAGNETIC SENSORS
 02/07/2001 – 01/14/2002 FY01: \$260,030 Total: \$260,030
Prin. Invest.: G SEIDEL
Tech. Officer: GSFC/C STAHLE
CASE Category: 11 – ASTRONOMY

NAG 5 10401 **BROWN UNIV** **8252**
 REMOTE SENSING INFORMATION APPLIED TO GEOLOGICAL STUDIES OF
 PLANETS
 02/13/2001 – 01/31/2002 FY01: \$40,000 Total: \$40,000
Prin. Invest.: C M PIETERS
Tech. Officer: GSFC/D SENSKE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 10469 **BROWN UNIV** **8253**
 MINERALOGY OF LUNAR SAMPLES FROM REFLECTANCE SPECTROSCOPY
 02/27/2001 – 03/31/2002 FY01: \$35,000 Total: \$35,000
Prin. Invest.: C PIETERS
Tech. Officer: GSFC/J BOYCE
CASE Category: 12 – CHEMISTRY

NAG 5 10573 **BROWN UNIV** **8254**
 TESTS FOR STANDING BODIES OF WATER IN THE NORTHERN LOWLANDS
 AND RELATION TO SOUTH POLAR DEPOSITS IN
 03/13/2001 – 03/14/2002 FY01: \$80,000 Total: \$80,000
Prin. Invest.: J HEAD
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 10665 **BROWN UNIV** **8255**
 HYDROGEN ISOTOPIC COMPOSITIONS OF INDIVIDUAL ORGANIC
 COMPOUNDS IN CARBONACEOUS METEORITES
 03/21/2001 – 03/31/2002 FY01: \$70,000 Total: \$70,000
Prin. Invest.: Y HUANG
Tech. Officer: GSFC/M MEYER
CASE Category: 11 – ASTRONOMY

NAG 5 10690 **BROWN UNIV** **8256**
 VOLCANIC LANDFORMS & DEPOSITS: DIVERSITY OF ERUP TION
 CONDITIONS & IMPLICATIONS FOR THE ASCENT
 03/30/2001 – 03/31/2002 FY01: \$36,000 Total: \$36,000
Prin. Invest.: J HEAD
Tech. Officer: GSFC/D SENSKE
CASE Category: 11 – ASTRONOMY

NAG 5 11145 **BROWN UNIV** **8257**
 LANDSCAPE DYNAMICS AND LAND-USE/LAND-COVER CHANGE IN THE
 GREAT BASIN/MOJAVE DESERT REGION
 07/25/2001 – 08/14/2002 FY01: \$61,387 Total: \$61,387
Prin. Invest.: J F MUSTARD
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 8 1774 **BROWN UNIV** **8258**
 COALESCENCE OF SUPERFLUID HELIUM DROPS IN A MICRO- GRAVITY
 ENVIRONMENT
 04/30/2001 – 04/29/2005 FY01: \$79,946 Total: \$79,946
Prin. Invest.: H J MARIS
Tech. Officer: MSFC/D HUBBARD
CASE Category: 13 – PHYSICS

NAG 9 1302 **BROWN UNIV** **8259**
 SNC OXYGEN FUGACITY RECORDED PYROXENES: AN EXPERIMENTAL &
 ANALYTICAL STUDY
 06/15/2001 – 06/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: M RUTHERFORD
Tech. Officer: JSC/J JONES
CASE Category: 56 – MEDICL

NAG13 39 **BROWN UNIV** **8260**
 RHODE ISLAND'S NARRAGANSETT BAY FROM SPACE: A PERSPECTIVE
 FOR THE 21ST CENTURY
 08/01/1996 – 12/31/2000 FY01: \$0 Total: \$627,750
Prin. Invest.: MUSTARD
Tech. Officer: SSC/R MCKELLIP
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 1 01035 **BROWN UNIV** **8261**
 RELAXATION & PRECONDITIONING 4 HI-ORDER DISCONTINUOUS GALERKIN
 METHODS W/APPLIC AEROACOUSTICS & H/S FLOW
 03/21/2001 – 11/30/2003 FY01: \$20,129 Total: \$20,129
Prin. Invest.: C W SHU
Tech. Officer: LARC/H L ATKINS/2
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NCC 2 1217 **BROWN UNIV** **8262**
 CAUSAL REASONING
 03/13/2001 – 02/28/2002 FY01: \$115,000 Total: \$115,000
Prin. Invest.: S A SLOMAN
Tech. Officer: ARC/M SHAFTO
CASE Category: 22 – COMPUTER SCIENCE

NCC 5 487 **BROWN UNIV** **8263**
 PRECISION AND ACCURACY OF ALI DATA FOR THE DETERMINATION OF
 VEGETATION ABUNDANCE
 04/05/2000 – 12/31/2001 FY01: \$55,540 Total: \$98,900
Prin. Invest.: J F MUSTARD
Tech. Officer: GSFC/S G UNGAR
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC13 98005 **BROWN UNIV** **8264**
 BROWN UNIV AFFILIATED RESEARCH CENTER FOR THE NORTHEAST
 09/15/1998 – 12/31/2001 FY01: \$150,000 Total: \$500,000
Prin. Invest.: J F MUSTARD
Tech. Officer: SSC/H CARR
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 1 01024 **BROWN UNIV** **8265**
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) MY 1/3
 06/11/2001 – 06/30/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: A KANESKY
Tech. Officer: LARC/M H CARPENTER
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NGT 1 01037 **BROWN UNIV** **8266**
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) MY 1/2
 06/28/2001 – 06/30/2003 FY01: \$22,000 Total: \$22,000
Prin. Invest.: C SHA
Tech. Officer: LARC/H L ATKINS
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NGT 1 52243 **BROWN UNIV** **8267**
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
 06/29/2000 – 06/30/2001 FY01: -\$38 Total: \$21,962
Prin. Invest.: J RYAN, C W SHU
Tech. Officer: LARC/H L ATKINS
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NGT 3 52369 **BROWN UNIV** **8268**
 GRADUATE STUDENT RESEARCHERS PROGRAM GRADUATE STUDENT
 RESEARCHERS PROGRAM
 06/20/2000 – 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: G P CRAWFORD
Tech. Officer: GRC/F J MONTEGANI
CASE Category: 45 – ELECTRICAL ENGR

NGT 5 91 **BROWN UNIV** **8269**
 SWITCHABLE/TUNABLE INTERFERENCE FILTERS FOR REMOTE SENSING
 APPLICATIONS STUDENT: ADAM FONTECCHIO
 06/10/1999 – 08/31/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: G CRAWFORD
Tech. Officer: GSFC/G A SOFFEN
CASE Category: 49 – ENGINEERING, OTHER

NGT 5 40106 **BROWN UNIV** **8270**
 RHODE ISLAND SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
 03/06/2001 – 02/28/2002 FY01: \$344,317 Total: \$344,317
Prin. Invest.: P H SCHULTZ
Tech. Officer: GSFC/D D DETROYE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 50166 **BROWN UNIV** **8271**
 EFFECTS OF HIGH STRAIN-RATE DEFORMATION ON IMPACT MELT
 GENERATION
 06/04/1999 – 06/30/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: P H SCHULTZ
Tech. Officer: GSFC/L SMITH
CASE Category: 11 – ASTRONOMY

NGT 5 50355 **BROWN UNIV** **8272**
 INHOMOGENEITIES IN SUPERSTRING COSMOLOGY
 05/14/2001 – 08/31/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: R BRANDENBERGER
Tech. Officer: HQ/K BLANDING
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 90014 **BROWN UNIV** **8273**
 TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE
 AND FELLOWSHIP PROGRAM.
 02/03/1997 – 02/28/2001 FY01: -\$96,817 Total: \$780,683
Prin. Invest.: P H SCHULTZ
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 9 53 **BROWN UNIV** **8274**
 TRAINING GRANT/REGOLITH PROCESS ON AIRLESS BODIES
 06/06/2001 – 06/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: C PIETERS
Tech. Officer: JSC/D MACKAY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 3 2208 **UNIV OF RHODE ISLAND** **8275**
 CERAMIC BASED STRAIN SENSORS FOR USE AT HIGH TEMPERATURE
 11/17/1998 – 07/12/2001 FY01: \$60,000 Total: \$180,000
Prin. Invest.: O GREGORY
Tech. Officer: GRC/J LEI
CASE Category: 41 – AERONAUTICAL ENGR

NAG 3 2229 **UNIV OF RHODE ISLAND** **8276**
 NUMERICAL SIMULATIONS FOR THE DESIGN OF TERRESTRIAL AND
 MICROGRAVITY WETTING MICROHYDRODYNAMICS EXP
 03/09/1999 – 12/31/2000 FY01: \$0 Total: \$30,888
Prin. Invest.: A BOSE
Tech. Officer: GRC/D A JACQUIN
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 2434 **UNIV OF RHODE ISLAND** **8277**
 PHASE CHANGE IN LOW AND JITTERING GRAVITY ENVIRONMENT
 SIMULATED VIA ELECTROMAGNETIC FIELD
 05/30/2000 – 11/30/2003 FY01: \$36,126 Total: \$71,811
Prin. Invest.: D FAGHRI
Tech. Officer: GRC/H C DEGROH
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 3736 **UNIV OF RHODE ISLAND** **8278**
 SURVEY OF OCEAN FRONTS WITH SST, ALTIMETER AND IN
 03/06/1997 – 09/30/2000 FY01: \$0 Total: \$509,922
Prin. Invest.: P CORNILLON
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 33 – OCEANOGRAPHY

NAG 5 6077 **UNIV OF RHODE ISLAND** **8279**
 PRODUCTION OF WESTERN N ATLANTIC FULL RESOLUTION SST FIELDS
 FROM THE AVHRR SENSOR
 10/24/1997 – 06/30/2000 FY01: -\$1,416 Total: \$212,584
Prin. Invest.: D CONRILLON
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 33 – OCEANOGRAPHY

NAG 5 6320 UNIV OF RHODE ISLAND 8280
 PRODUCTION OF WESTERN NORTH ATLANTIC FULL RESOLUTION AVHRR SENSOR
 09/11/1997 - 05/31/2000 FY01: \$0 Total: \$100,000
Prin. Invest.: P CORNILLON
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6560 UNIV OF RHODE ISLAND 8281
 DETERMINATION OF OCEAN COLOR PROVINCES IN THE NORTH ATLANTIC
 10/27/1997 - 10/31/2002 FY01: \$36,814 Total: \$440,122
Prin. Invest.: P M STEGMANN
Tech. Officer: GSFC/J YODER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6645 UNIV OF RHODE ISLAND 8282
 SATELLITE STUDIES OF PHYTOPLANKTON DYNAMICS AND PRODUCTIVITY IN THE GLOBAL OCEAN AND IN OCEAN MODELS
 12/01/1997 - 10/14/2001 FY01: \$0 Total: \$553,256
Prin. Invest.: J A YODER
Tech. Officer: GSFC/J CAMPBELL
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8739 UNIV OF RHODE ISLAND 8283
 INVESTIGATION OF AERODYNAMIC AND RADOMETRIC LAND SURFACE TEMPERATURES
 08/19/1999 - 08/14/2002 FY01: \$10,678 Total: \$30,998
Prin. Invest.: Y WANG
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8829 UNIV OF RHODE ISLAND 8284
 MULTIPLE INNOVATIVE MODELS IN REGIONAL LAND COVER CHANGE STUDIES
 09/08/1999 - 09/30/2001 FY01: \$0 Total: \$182,484
Prin. Invest.: Y WANG
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9633 UNIV OF RHODE ISLAND 8285
 EXTENSION OF THE 1KM PATHFINDER AVHRR SST ARCHIVE BOTH IN TIME AND SPACE
 05/26/2000 - 04/30/2002 FY01: \$132,500 Total: \$226,250
Prin. Invest.: P CORNILLON
Tech. Officer: GSFC/J DODGE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9724 UNIV OF RHODE ISLAND 8286
 U.S. COASTAL BLENDING IN SITU AND REMOTELY-SENSED OCEAN CHLOROPHYLL DATA SETS
 06/29/2000 - 06/30/2002 FY01: \$22,231 Total: \$38,467
Prin. Invest.: J YODER
Tech. Officer: GSFC/J DODGE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10554 UNIV OF RHODE ISLAND 8287
 WIND-INDUCED SHORT TIME-SCALE FLUCTUATIONS OF PHYTOPLANKTON BIOMASS
 03/12/2001 - 03/14/2002 FY01: \$65,264 Total: \$65,264
Prin. Invest.: B UZ
Tech. Officer: GSFC/J MARRA
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10555 UNIV OF RHODE ISLAND 8288
 SATELLITE STUDIES OF COUPLED BIOLOGICAL & PHYSICAL VARIABILITY IN OCEAN MARGIN WATERS OF THE NORTHWEST
 03/12/2001 - 03/14/2002 FY01: \$180,571 Total: \$180,571
Prin. Invest.: J YODER
Tech. Officer: GSFC/J MARRA
CASE Category: 33 - OCEANOGRAPHY

NCC 1 302 UNIV OF RHODE ISLAND 8289
 HYDROGEN PEROXIDE, METHYLHYDROPEROXIDE & FORMALDEHYDE -- THEIR RELATIONSHIP TO TROPOSPHERIC OXIDANT CHEMISTRY
 07/14/1998 - 06/30/2001 FY01: \$0 Total: \$319,007
Prin. Invest.: B HEIKES
Tech. Officer: LARC/J L RAPER, LARC/R J BENDURA
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 1 408 UNIV OF RHODE ISLAND 8290
 HYDROGEN PEROXIDE, METHYLHYDROGEN PEROXIDE, & FORMALDEHYDE TRANSPORT & CHEM EVOLUTION OVER THE PACIFIC OCEAN
 09/07/2000 - 02/14/2003 FY01: \$90,329 Total: \$199,870
Prin. Invest.: D W O'SULLIVAN, B G HEIKES
Tech. Officer: LARC/J L RAPER, SR
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 2 1275 UNIV OF RHODE ISLAND 8291
 SUBSURFACE BIOSPHERES
 07/20/2001 - 06/30/2006 FY01: \$292,933 Total: \$292,933
Prin. Invest.: S D'HONDT, A TESKE, K HINRICHS
Tech. Officer: ARC/R A GRYMES, ARC/W DOLCI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 307 UNIV OF RHODE ISLAND 8292
 THE DISTRIBUTED OCEANOGRAPHIC DATA SYSTEM (DODS): A FRAMEWORK FOR ACCESS TO SCIENTIFIC DATA IN THE OCEAN
 04/27/1998 - 11/30/2001 FY01: \$210,000 Total: \$2,279,200
Prin. Invest.: P CORNILLON
Tech. Officer: GSFC/M MAIDEN
CASE Category: 33 - OCEANOGRAPHY

SOUTH CAROLINA

NAG 2 1164 BENEDICT COLLEGE 8293
 IDENTIFICATION & ISOLATION OF MICROGRAVITY RESPONSIVE CDNA'S
 10/06/1997 - 01/14/2001 FY01: \$0 Total: \$298,346
Prin. Invest.: L LOWE
Tech. Officer: ARC/R E GRINDELAND, ARC/G S LEE
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 3 2214 CLEMSON UNIV - CLEMSON 8294
 THERMAL CONTROL AND ENHANCEMENT OF HEAT CAPACITY OF CRYOGENIC CAPILLARY PUMPED LOOP AND HEAT PIPE WIND TUNNEL
 01/22/1999 - 11/01/2002 FY01: \$28,310 Total: \$69,658
Prin. Invest.: D M OCHTERBECK
Tech. Officer: GRC/F P CHIARAMONTE
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 3699 CLEMSON UNIV - CLEMSON 8295
 ANALYSIS OF COMPTEL AND OSSE OBSERVATIONS OF SUPERNOVAE
 01/24/1997 - 01/31/2001 FY01: \$0 Total: \$52,297
Prin. Invest.: M D LEISING
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 - ASTRONOMY

NAG 5 4703 **CLEMSON UNIV - CLEMSON** **8296**
 THE HISTORY OF THE NUCLEI COMPRISING PLANETARY MAT
 06/11/1997 - 05/31/2001 FY01: \$0 Total: \$136,074
Prin. Invest.: D S MEYER
Tech. Officer: GSFC/D F NAVA
CASE Category: 11 - ASTRONOMY

NAG 5 5186 **CLEMSON UNIV - CLEMSON** **8297**
 COUPLING OF DYNAMICS IN AURORA FUNDING FOR FIRST YEAR OF
 GRANT
 03/30/1998 - 12/31/2002 FY01: \$110,400 Total: \$383,363
Prin. Invest.: M F LARSEN
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 - PHYSICS

NAG 5 5242 **CLEMSON UNIV - CLEMSON** **8298**
 A SOUNDING ROCKET INVESTIGATION OF THE FINE STRUCTURE IN THE
 MESOPAUSE REGION
 03/16/1999 - 02/28/2002 FY01: \$34,900 Total: \$244,100
Prin. Invest.: M F LARSEN
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 - PHYSICS

NAG 5 5259 **CLEMSON UNIV - CLEMSON** **8299**
 FIRST YEAR OF THREE YEAR EFFORT/ A SEQUENTIAL ROCKET INVES-
 TIGATION OF WINDS AND PLASMA LAYERS
 04/11/2000 - 03/23/2003 FY01: \$99,000 Total: \$206,700
Prin. Invest.: M F LARSEN
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 - PHYSICS

NAG 5 5317 **CLEMSON UNIV - CLEMSON** **8300**
 MAPPING THE E-REGION AND ZONAL WINDS NEAR A STABLE AURORAL
 ARC, USING A NEAR-HORIZONTAL CHEMICAL TRA
 03/19/2001 - 02/28/2004 FY01: \$96,100 Total: \$96,100
Prin. Invest.: M F LARSEN
Tech. Officer: GSFC/J C BRINTON
CASE Category: 13 - PHYSICS

NAG 5 5320 **CLEMSON UNIV - CLEMSON** **8301**
 MULTIPLE-SCALE STUDY OF HIGH-LATITUDE JOULE HEATING DURING A
 SUBSTORM EVENT
 04/26/2001 - 12/31/2003 FY01: \$144,700 Total: \$144,700
Prin. Invest.: M LARSON
Tech. Officer: GSFC/J BRINTON
CASE Category: 13 - PHYSICS

NAG 5 5325 **CLEMSON UNIV - CLEMSON** **8302**
 OBSERVING AND MEASURING EARLY OPTICAL LIGHT CURVES FROM
 GAMMA-RAY BURSTS WITH LOTIS
 03/21/2001 - 03/31/2002 FY01: \$15,000 Total: \$15,000
Prin. Invest.: D H HARTMANN
Tech. Officer: WFF/B A MERRITT
CASE Category: 13 - PHYSICS

NAG 5 6210 **CLEMSON UNIV - CLEMSON** **8303**
 RECONFIGURABLE COMPUTING SYSTEMS FOR REGIONAL VALI APPLICA-
 TIONS, CONTROL NUMBER GSFC5-3265
 08/06/1997 - 06/30/2001 FY01: \$49,924 Total: \$299,772
Prin. Invest.: D LIGON, III
Tech. Officer: GSFC/W CAMPBELL
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 7592 **CLEMSON UNIV - CLEMSON** **8304**
 INVESTIGATING THE FEASIBILITY OF, AND LIMITATIONS ASSOCIATED WITH,
 RECOVERING GRAVITYWAVE PARAMETER
 07/07/1998 - 06/30/2001 FY01: \$0 Total: \$158,676
Prin. Invest.: M P HICKEY
Prin. Invest.: NONE
Tech. Officer: GSFC/M MELLOTT
CASE Category: 13 - PHYSICS

NAG 5 7782 **CLEMSON UNIV - CLEMSON** **8305**
 PHYSICAL VARIATIONS IN THE RAINDROP SIZE DISTRIBUTION & THEIR
 EFFECTS ON THE QUANTITATIVE ESTIMATION
 11/13/1998 - 05/14/2002 FY01: \$44,910 Total: \$149,730
Prin. Invest.: C W ULBRICH
Tech. Officer: GSFC/O W THIELE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 8075 **CLEMSON UNIV - CLEMSON** **8306**
 OSSE OBSERVATIONS OF 44TI IN SNR G266.2-1.2
 01/15/1999 - 01/14/2001 FY01: \$0 Total: \$11,200
Prin. Invest.: M D LEISING
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 - ASTRONOMY

NAG 5 8304 **CLEMSON UNIV - CLEMSON** **8307**
 PRESOLAR DUST GRAINS IN METEORITES: ORIGIN AND MEANING
 02/25/1999 - 04/14/2002 FY01: \$58,000 Total: \$167,000
Prin. Invest.: D CLAYTON
Tech. Officer: GSFC/J BOYCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 8448 **CLEMSON UNIV - CLEMSON** **8308**
 RELATING SOLAR BIRTH TO THE GALAXY
 04/07/1999 - 03/31/2002 FY01: \$45,000 Total: \$130,000
Prin. Invest.: D D CLAYTON
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8605 **CLEMSON UNIV - CLEMSON** **8309**
 A PROBLEM SOLVING ENVIRONMENT FOR SCALABLE REMOTE SENSING
 APPLICATIONS
 06/24/1999 - 03/31/2001 FY01: \$0 Total: \$149,920
Prin. Invest.: W LIGON
Tech. Officer: GSFC/K MOE
CASE Category: 22 - COMPUTER SCIENCE

NAG 5 8759 **CLEMSON UNIV - CLEMSON** **8310**
 MANIPULATION AND CONTACT SENSING VIA TRUNKS, TENTA CLES, AND
 WHISKERS
 08/26/1999 - 08/31/2002 FY01: \$120,039 Total: \$276,852
Prin. Invest.: I D WALKER
Tech. Officer: GSFC/S DAVISON
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

<p>NAG 5 9267 CLEMSON UNIV - CLEMSON 8311 INVESTIGATION OF PLASMA TURBULENCE IN THE EQUATORIAL IONOSPHERE 03/13/2000 - 02/28/2002 FY01: \$31,082 Total: \$61,782 <i>Prin. Invest.:</i> D HYSELL <i>Tech. Officer:</i> GSFC/M MELLOTT <i>CASE Category:</i> 32 - GEOLOGICAL SCIENCE</p>	<p>NAG 5 10454 CLEMSON UNIV - CLEMSON 8319 HISTORY OF THE NUCLEI IMPORTANT FOR COSMOCHEMISTRY 02/21/2001 - 05/31/2002 FY01: \$37,000 Total: \$37,000 <i>Prin. Invest.:</i> B MEYER <i>Tech. Officer:</i> GSFC/J BOYCE <i>CASE Category:</i> 12 - CHEMISTRY</p>
<p>NAG 5 9459 CLEMSON UNIV - CLEMSON 8312 SILICON - CARBON NANOTUBE HYBRID DEVICE DESIGN: A ROUTE TO NANOSCALE INTEGRATION 04/13/2000 - 04/14/2001 FY01: \$0 Total: \$25,000 <i>Prin. Invest.:</i> D L CARROLL <i>Tech. Officer:</i> GSFC/H C SHAW <i>CASE Category:</i> 47 - METAL & MATERIALS ENGR</p>	<p>NAG 5 10764 CLEMSON UNIV - CLEMSON 8320 THE RADIOACTIVE MILKY WAY & SUPERNOVAE (LTSA 2000) 04/23/2001 - 04/30/2002 FY01: \$77,538 Total: \$77,538 <i>Prin. Invest.:</i> M D LEISING <i>Tech. Officer:</i> GSFC/R J OLIVERSEN <i>CASE Category:</i> 11 - ASTRONOMY</p>
<p>NAG 5 9702 CLEMSON UNIV - CLEMSON 8313 MEASURING THE T144 MASS IN CAS A WITH OSSE 06/15/2000 - 06/14/2002 FY01: \$0 Total: \$5,000 <i>Prin. Invest.:</i> L THE <i>Tech. Officer:</i> GSFC/J P NORRIS <i>CASE Category:</i> 11 - ASTRONOMY</p>	<p>NAG 5 11293 CLEMSON UNIV - CLEMSON 8321 NANO-ELECTRONCS: CIRCUIT DESIGN FOR SILICON/CARBON NANOTUBE INTEGRATION 08/22/2001 - 07/31/2002 FY01: \$25,000 Total: \$25,000 <i>Prin. Invest.:</i> D L CARROLL <i>Tech. Officer:</i> GSFC/H SHAW <i>CASE Category:</i> 13 - PHYSICS</p>
<p>NAG 5 9802 CLEMSON UNIV - CLEMSON 8314 CU/GSFC GCN/SUPER-LOTIS PROJECT COLLABORATION 07/19/2000 - 01/31/2001 FY01: \$0 Total: \$19,885 <i>Prin. Invest.:</i> D HARTMANN <i>Tech. Officer:</i> GSFC/N GEHRELS <i>CASE Category:</i> 11 - ASTRONOMY</p>	<p>NAG 5 11329 CLEMSON UNIV - CLEMSON 8322 ALTERNATIVE COMPUTING ROADMAP PROJECT 09/25/2001 - 09/30/2004 FY01: \$33,800 Total: \$33,800 <i>Prin. Invest.:</i> D SASS <i>Tech. Officer:</i> GSFC/P CORONADO <i>CASE Category:</i> 22 - COMPUTER SCIENCE</p>
<p>NAG 5 9824 CLEMSON UNIV - CLEMSON 8315 EXTRACTION OF SINGLE EVENT UPSET PARAMETERS FROM CIRCUIT SIMULATION CODE 07/25/2000 - 07/31/2001 FY01: \$0 Total: \$25,000 <i>Prin. Invest.:</i> P MCNULTY <i>Tech. Officer:</i> GSFC/J BARTH <i>CASE Category:</i> 49 - ENGINEERING, OTHER</p>	<p>NCC 1 01036 CLEMSON UNIV - CLEMSON 8323 ADVANCED CROSS ENTERPRISE TECHNOLOGY DEVELOPMENT FOR NASA MISSIONS 04/12/2001 - 04/30/2004 FY01: \$158,123 Total: \$158,123 <i>Prin. Invest.:</i> Y SUN <i>Tech. Officer:</i> LARC/J W CONWELL <i>CASE Category:</i> 12 - CHEMISTRY</p>
<p>NAG 5 10018 CLEMSON UNIV - CLEMSON 8316 PVFS 2000: AN OPERATIONAL PARALLEL FILE SYSTEM FOR BEOWULF 10/02/2000 - 09/30/2002 FY01: \$152,447 Total: \$152,447 <i>Prin. Invest.:</i> D LIGON III <i>Tech. Officer:</i> GSFC/J DORBAND <i>CASE Category:</i> 22 - COMPUTER SCIENCE</p>	<p>NCC 2 1114 CLEMSON UNIV - CLEMSON 8324 VIRTUAL REALITY TECHNOLOGY FOR AIRCRAFT VISUAL INS PECTION: TRAINING & JOB AIDING 04/23/1999 - 12/31/2001 FY01: \$105,441 Total: \$248,169 <i>Prin. Invest.:</i> A K GRAMOPADHYE <i>Tech. Officer:</i> ARC/B G KANKI, ARC/M M CONNORS <i>CASE Category:</i> 49 - ENGINEERING, OTHER</p>
<p>NAG 5 10251 CLEMSON UNIV - CLEMSON 8317 STUDIES OF WIND SHEAR INSTABILITIES & GRAVITY WAVES IN THE MLT REGION AIRGLOW & RELATED EFFECTS 01/05/2001 - 01/14/2002 FY01: \$79,898 Total: \$79,898 <i>Prin. Invest.:</i> M HICKEY <i>Tech. Officer:</i> GSFC/M MELLOTT <i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER</p>	<p>NCC 2 5421 CLEMSON UNIV - CLEMSON 8325 COMBINATORIAL APPROACH FOR SYNTHESIS & CHARACTERIZATION OF CARBON NANOTUBES - A CHARACTERIZATION LA 02/15/2001 - 01/31/2002 FY01: \$91,802 Total: \$91,802 <i>Prin. Invest.:</i> A M RAO <i>Tech. Officer:</i> ARC/M MEYYAPPAN, ARC/H PATRIDGE <i>CASE Category:</i> 13 - PHYSICS</p>
<p>NAG 5 10367 CLEMSON UNIV - CLEMSON 8318 MINIATURE HEAT TRANSPORT SYSTEM FOR SPACECRAFT THE RMAL CONTROL 03/19/2001 - 03/31/2002 FY01: \$39,300 Total: \$39,300 <i>Prin. Invest.:</i> D M OCHTERBECK <i>Tech. Officer:</i> GSFC/J KU <i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER</p>	<p>NGT 1 01036 CLEMSON UNIV - CLEMSON 8326 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) MY 1/2 06/28/2001 - 06/30/2003 FY01: \$12,000 Total: \$12,000 <i>Prin. Invest.:</i> Y P SUN <i>Tech. Officer:</i> LARC/J W CONNELL, LARC/J G SMITH <i>CASE Category:</i> 12 - CHEMISTRY</p>

NGT 1 52238	CLEMSON UNIV - CLEMSON	8327	NAG 5 10625	COLLEGE OF CHARLESTON	8335
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)			AN ARTIFICIAL INTELLIGENCE CLASSIFICATION TOOL & ITS APPLICATION		
05/03/2000 - 06/30/2001	FY01: \$12,000	Total: \$22,000	TO GAMMA-RAY BURSTS		
<i>Prin. Invest.:</i> Y P SUN			03/22/2001 - 01/31/2002	FY01: \$104,054	Total: \$104,054
<i>Tech. Officer:</i> LARC/J W CONNELL, LARC/J G SMITH, JR			<i>Prin. Invest.:</i> J HAKKILA		
<i>CASE Category:</i> 12 - CHEMISTRY			<i>Tech. Officer:</i> GSFC/P HUNTER		
			<i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE		
NGT 5 78	CLEMSON UNIV - CLEMSON	8328	NAG 5 10633	COLLEGE OF CHARLESTON	8336
IMPROVING HIGH PERFORMANCE I/O IN COMPUTATIONAL DATA PROCESSING SYSTEMS PREVIOUS AWARD WAS ON NGT5-			EXPLORING THE SOLAR SYSTEM IN THE CLASSROOM: A DIFFERENTIATED MULTISENSORY APPROACH		
04/15/1999 - 06/30/2000	FY01: \$0	Total: \$22,000	03/17/2001 - 03/14/2002	FY01: \$40,000	Total: \$40,000
<i>Prin. Invest.:</i> LIGON, 11			<i>Prin. Invest.:</i> C RUNYON		
<i>Tech. Officer:</i> GSFC/G A SOFFEN			<i>Tech. Officer:</i> GSFC/J M BOYCE		
<i>CASE Category:</i> 22 - COMPUTER SCIENCE			<i>CASE Category:</i> 11 - ASTRONOMY		
NGT 5 85	CLEMSON UNIV - CLEMSON	8329	NAG 5 11017	COLLEGE OF CHARLESTON	8337
COTS CUSTOM HARDWARE: THE RECONFIGURABLE APPROACH TO CLUSTER BASED PARALLEL: STUDENT/KEITH UNDERWOOD			EARLY BATSE GRB AFTERGLOWS (ADP 2000)		
05/20/1999 - 08/14/2002	FY01: \$22,000	Total: \$66,000	06/12/2001 - 06/14/2002	FY01: \$30,000	Total: \$30,000
<i>Prin. Invest.:</i> W LIGON			<i>Prin. Invest.:</i> T W GIBLIN		
<i>Tech. Officer:</i> GSFC/G A SOFFEN			<i>Tech. Officer:</i> GSFC/R J OLIVERSEN		
<i>CASE Category:</i> 22 - COMPUTER SCIENCE			<i>CASE Category:</i> 11 - ASTRONOMY		
NGT 5 109	CLEMSON UNIV - CLEMSON	8330	NCC 5 263	COLLEGE OF CHARLESTON	8338
ALGORITHMS & SCHEDULING FOR PARALLEL I/O (STUDENT: PHILIP CARNS)			SOUTHEASTERN OSS-SPACE GRANT REGIONAL EDUCATION COALITION:		
06/12/2000 - 08/14/2002	FY01: \$22,000	Total: \$44,000	KEYS TO IMPLEMENTING NASA'S OSS EDUCATION		
<i>Prin. Invest.:</i> W B LIGON			01/12/1998 - 01/14/2002	FY01: \$270,000	Total: \$1,030,000
<i>Tech. Officer:</i> GSFC/G SOFFEN			<i>Prin. Invest.:</i> M COLGAN <i>Prin. Invest.:</i> NONE		
<i>CASE Category:</i> 22 - COMPUTER SCIENCE			<i>Tech. Officer:</i> GSFC/J ROSENDHAL		
			<i>CASE Category:</i> 11 - ASTRONOMY		
NGT 8 52858	CLEMSON UNIV - CLEMSON	8331	NCC 5 413	COLLEGE OF CHARLESTON	8339
ROBUST SPEECH RECOGNITION SCHEME USING PARALLEL MODEL COMBINATION WITH AN ADAPTIVE HYBRID			EPSCOR PREPARATION PROGRAM		
07/23/1998 - 08/14/2001	FY01: \$0	Total: \$66,000	06/18/1999 - 06/14/2002	FY01: \$0	Total: \$450,000
<i>Prin. Invest.:</i> J N GOWDY			<i>Prin. Invest.:</i> M COLGAN		
<i>Tech. Officer:</i> MSFC/J F DOWDY			<i>Tech. Officer:</i> GSFC/D DETROYE		
<i>CASE Category:</i> 45 - ELECTRICAL ENGR			<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER		
NGT10 52611	CLEMSON UNIV - CLEMSON	8332	NCC 5 575	COLLEGE OF CHARLESTON	8340
GRADUATE STUDENT RESEARCH GRANT			SOUTH CAROLINA NASA EPSCOR PROGRAM		
09/01/1997 - 07/30/2000	FY01: \$0	Total: \$66,000	08/23/2001 - 07/31/2004	FY01: \$300,000	Total: \$300,000
<i>Prin. Invest.:</i> D DAWSON			<i>Prin. Invest.:</i> M COLGAN		
<i>Tech. Officer:</i> KSC/G BUCKINGHAM			<i>Tech. Officer:</i> GSFC/D DETROYE		
<i>CASE Category:</i> 45 - ELECTRICAL ENGR			<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER		
NAG 5 7183	COLLEGE OF CHARLESTON	8333	NGT 5 40050	COLLEGE OF CHARLESTON	8341
EXPLORING THE SOLAR SYSTEM IN THE CLASSROOM			NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM		
03/16/1998 - 03/14/2002	FY01: \$0	Total: \$48,000	02/03/1997 - 02/28/2002	FY01: \$0	Total: \$1,072,676
<i>Prin. Invest.:</i> C R COOMBS			<i>Prin. Invest.:</i> M COLGAN		
<i>Tech. Officer:</i> GSFC/J BOYCE			<i>Tech. Officer:</i> GSFC/L KEFFER		
<i>CASE Category:</i> 11 - ASTRONOMY			<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER		
NAG 5 10313	COLLEGE OF CHARLESTON	8334	NGT 5 40099	COLLEGE OF CHARLESTON	8342
BETA PIC-LIKE CIRCUMSTELLAR GAS DISK AROUND 2 AND -- FUSE-00			SOUTH CAROLINA SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM		
01/26/2001 - 01/31/2002	FY01: \$16,000	Total: \$16,000	02/28/2001 - 02/28/2002	FY01: \$256,250	Total: \$256,250
<i>Prin. Invest.:</i> J E NEFF			<i>Prin. Invest.:</i> M COLGAN		
<i>Tech. Officer:</i> GSFC/G SONNEBORN			<i>Tech. Officer:</i> GSFC/D DETROYE		
<i>CASE Category:</i> 11 - ASTRONOMY			<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER		

NCC 2 1085 FURMAN UNIV 8343
 PROSPECTIVE REMEMBERING UNDER COMPLEX, DEMANDING & FLUID
 CONDITIONS
 01/27/1999 - 01/14/2002 FY01: \$130,000 Total: \$401,024
Prin. Invest.: G O EINSTEIN, M A MCDANIEL
Tech. Officer: ARC/R K DISMUKES
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 2 1415 MEDICAL UNIV OF SOUTH CAROLINA 8344
 EMBRYONIC CELL MIGRATION & METALLOPROTEINASE ACTIVITY ARE
 AFFECTED BY RANDOMIZATION OF THE GRAVITY
 07/11/2000 - 06/30/2002 FY01: \$175,655 Total: \$266,175
Prin. Invest.: S HOFFMAN
Tech. Officer: ARC/M M AVERNER/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 8 1385 MEDICAL UNIV OF SOUTH CAROLINA 8345
 RESEARCH "GASTRIC MUCOSAL CELL CULTURE IN SIMULATED
 MICROGRAVITY
 06/13/1997 - 12/30/2001 FY01: \$46,976 Total: \$572,093
Prin. Invest.: A J SMOKA
Tech. Officer: MSFC/N R PELLIS, MSFC/J MAYO
CASE Category: 56 - MEDICL

NAG 5 8246 SOUTH CAROLINA STATE UNIV 8346
 SHARE WITH A PAIR OF PEERS (SWAPOP II)
 02/19/1999 - 02/28/2002 FY01: \$199,164 Total: \$586,190
Prin. Invest.: J D SALLEY
Tech. Officer: GSFC/D MENCHAN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10145 SOUTH CAROLINA STATE UNIV 8347
 ENHANCEMENT OF THE SPACE SCIENCE RESEARCH PROGRAM AT SOUTH
 CAROLINA STATE UNIV
 01/05/2001 - 12/31/2001 FY01: \$227,000 Total: \$227,000
Prin. Invest.: D K WALTER
Tech. Officer: GSFC/P SAKIMOTO
CASE Category: 11 - ASTRONOMY

NCC 5 116 SOUTH CAROLINA STATE UNIV 8348
 CENTER FOR NETWORK RESOURCES AND TRAINING AT SOUTH CAROLINA
 STATE UNIV
 08/15/1995 - 08/14/2001 FY01: \$0 Total: \$3,114,000
Prin. Invest.: D K WALTER
Tech. Officer: GSFC/J BENNETT
CASE Category: 22 - COMPUTER SCIENCE

NCC 5 454 SOUTH CAROLINA STATE UNIV 8349
 CURRICULUM ENHANCEMENT THROUGH SPACE SCIENCE RSCH
 02/11/2000 - 02/28/2001 FY01: \$0 Total: \$300,000
Prin. Invest.: D K WALTER
Tech. Officer: GSFC/M MATTHEWS
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 534 SOUTH CAROLINA STATE UNIV 8350
 THE CENTER FOR NASA RESEARCH AND TECHNOLOGY (CNRT) /MUSPIN
 NRTS PROGRAM.
 02/01/2001 - 01/31/2002 FY01: \$350,000 Total: \$350,000
Prin. Invest.: D WALTER
Tech. Officer: GSFC/J HARRINGTON
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 1 2108 UNIV OF SOUTH CAROLINA-COLUMBIA 8351
 A FUNDAMENTAL STUDY OF MATERIAL FLOW IN FRICTION STIR WELDS
 09/08/1998 - 07/31/2001 FY01: \$0 Total: \$37,407
Prin. Invest.: A P REYNOLDS, NONE
Tech. Officer: LARC/R A HAFLEY
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 1 2237 UNIV OF SOUTH CAROLINA-COLUMBIA 8352
 DEV OF A NOVEL METH FOR DETERMINATION OF RESIDUAL STRESSES IN
 A FRICTION STIR WELD - NRA-99-LARC-1
 09/21/1999 - 07/31/2001 FY01: -\$1 Total: \$50,693
Prin. Invest.: A P REYNOLDS
Tech. Officer: LARC/R S PLASCIK, LARC/J C NEWMAN, JR.
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 5 8837 UNIV OF SOUTH CAROLINA-COLUMBIA 8353
 STUDY OF LAND-ATMOSPHERE INTERACTIONS USING SATELLITE DATA
 ASSIMILATION
 09/22/1999 - 09/30/2001 FY01: \$0 Total: \$114,265
Prin. Invest.: V LAKSHIMI
Tech. Officer: GSFC/P T HOUSER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8875 UNIV OF SOUTH CAROLINA-COLUMBIA 8354
 COUPLING SATELLITE REMOTE SENSING & UNSTEADY FLOW MODELING
 FOR DISCHARGE ESTIMATION
 11/16/1999 - 10/31/2001 FY01: \$0 Total: \$44,880
Prin. Invest.: V LAKSHIMI
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9233 UNIV OF SOUTH CAROLINA-COLUMBIA 8355
 THE INFLUENCE OF LAND-ATMOSPHERE INTERACTIONS ON VARIABILITY
 OF THE NORTH AMERICAN MONSOON
 04/06/2000 - 04/30/2002 FY01: \$66,109 Total: \$116,848
Prin. Invest.: V LAKSHIMI
Tech. Officer: GSFC/D WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10322 UNIV OF SOUTH CAROLINA-COLUMBIA 8356
 FUNDING GRANT FOR PROPOSAL # NRA-99-055-05 TITLED HIGH PERF
 ULTRAVIOLET DETECTORS BASED ON QUATERNAR
 01/31/2001 - 12/31/2001 FY01: \$472,615 Total: \$472,615
Prin. Invest.: D KHAN
Tech. Officer: GSFC/B MOTT
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 11128 UNIV OF SOUTH CAROLINA-COLUMBIA 8357
 EXTENDED VALIDATION OF AMSR-E SOIL MOISTURE PRODUCTS
 (AQUA-0084-0032)
 07/27/2001 - 08/31/2002 FY01: \$30,790 Total: \$30,790
Prin. Invest.: V LAKSHIMI
Tech. Officer: GSFC/D STARR
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 11253 UNIV OF SOUTH CAROLINA-COLUMBIA 8358
 AN ASSESSMENT OF GLOBAL ORGANIC CARBON FLUX ALONG CONTI-
 NENTAL_MARGINS
 08/20/2001 - 08/31/2004 FY01: \$48,613 Total: \$48,613
Prin. Invest.: R THUNELL
Tech. Officer: GSFC/J MARRA
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 174 UNIV OF SOUTH CAROLINA-COLUMBIA 8359
 EXPERIMENTAL PROGRAM TO STIMULATE COMPETITIVE RESE
 12/16/1996 - 03/31/2002 FY01: \$500,000 Total: \$2,499,009
Prin. Invest.: J D ODOM
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC13 00003 UNIV OF SOUTH CAROLINA-COLUMBIA 8360
 PROGRAM FOR A NASA AFFILIATED RESEARCH CENTER PROGRAM AT
 THE UNIV OF SOUTH CAROLINA
 02/01/2000 - 01/31/2002 FY01: \$150,000 Total: \$365,750
Prin. Invest.: J JENSEN
Tech. Officer: SSC/N SOVIK
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT13 52712 UNIV OF SOUTH CAROLINA-COLUMBIA 8361
 NASA GRADUATE STUDENT PROGRAM-LEWIS HYPERSPECTRAL CHAR-
 ACTERIZATION OF HAZARDOUS WASTE SITE CLAY CAPS
 07/22/1997 - 07/31/2000 FY01: -\$6,491 Total: \$59,509
Prin. Invest.: J JENSEN
Tech. Officer: JSC/A JOYCE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT13 52723 UNIV OF SOUTH CAROLINA-COLUMBIA 8362
 MACHINE LEARNING GMDH NEURO-FUZZY TECHNIQUES INHERENT
 OPTICAL PROPERTY ESTIMATED
 07/22/1999 - 07/31/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: J JENSEN
Tech. Officer: SSC/R TRAVIS
CASE Category: 22 - COMPUTER SCIENCE

NAG 5 9624 VOORHEES COLLEGE 8363
 EARTH SCIENCE EDUCATION AND RESEARCH INITIATIVE
 05/23/2000 - 05/14/2002 FY01: \$139,980 Total: \$279,960
Prin. Invest.: C SMITH
Tech. Officer: GSFC/C PERSON
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1310 WOFFORD COLLEGE 8364
 JOVE RESEARCH
 01/21/1997 - 08/31/2000 FY01: -\$5,620 Total: \$30,150
Prin. Invest.: D M SCOTT
Tech. Officer: MSFC/J F DOWDY, MSFC/J R PRUITT
CASE Category: 49 - ENGINEERING, OTHER

SOUTH DAKOTA

NAG 5 6299 AUGUSTANA COLLEGE 8365
 AUGUSTANA COLLEGE, EARTH SYSTEM SCIENCE, CURRICULU
 09/19/1997 - 08/31/2000 FY01: -\$9,585 Total: \$47,632
Prin. Invest.: V K OLNESS
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7548 OGLALA LAKOTA COLLEGE 8366
 OGLALA LAKOTA COLLEGE PACE/MSET
 07/01/1998 - 09/30/2001 FY01: \$0 Total: \$300,000
Prin. Invest.: J HAAS
Tech. Officer: GSFC/T GULL
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10935 OGLALA LAKOTA COLLEGE 8367
 NASA/OGLALA LAKOTA COLLEGE SUMMER INST AND RESEARCH INST.
 NASA HONORS SUPPLEMENTAL SUC
 06/07/2001 - 06/14/2002 FY01: \$41,500 Total: \$41,500
Prin. Invest.: S PHELPS
Tech. Officer: GSFC/D MENCHAN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 3 1680 SOUTH DAKOTA SCHOOL OF MINES & TECH 8368
 STUDY OF SOLID STATE SURFACE FOR ELECTRON EMISSION APPLICA-
 TIONS
 12/05/1994 - 10/15/2000 FY01: \$0 Total: \$50,708
Prin. Invest.: A PETUKHOV
Tech. Officer: GRC/I L KRAINSKY
CASE Category: 13 - PHYSICS

NAG 5 7746 SOUTH DAKOTA SCHOOL OF MINES & TECH 8369
 PROVIDE FOR SCIENTIFIC KNOWLEDGE FOR INDIAN LEARNI NG AND
 LEADERSHIP FOR MISSION TO PLANET EARTH
 10/21/1998 - 08/31/2001 FY01: \$100,000 Total: \$300,000
Prin. Invest.: F CAMPONE
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 21 - MATHEMATICS

NAG 5 8973 SOUTH DAKOTA SCHOOL OF MINES & TECH 8370
 EARTH SYSTEMS CONNECTIONS: AN INTEGRATED K-4 SCIENCE, MATH-
 EMATICS, & TECHNOLOGY CURRICULUM
 02/15/2000 - 12/31/2001 FY01: \$161,600 Total: \$309,100
Prin. Invest.: L A VIERLING
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 8 1447 SOUTH DAKOTA SCHOOL OF MINES & TECH 8371
 UPPER MISSOURI RIVER BASIN HYDROLOGY: PILOT PROJECT
 02/23/1998 - 09/30/2000 FY01: \$0 Total: \$800,000
Prin. Invest.: S O FAREWELL, P L SMITH
Tech. Officer: MSFC/J ARNOLD
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG13 99021 SOUTH DAKOTA SCHOOL OF MINES & TECH 8372
 APPLICATION OF REMOTE SENSING TO FOREST RESOURCE INVENTORY
 AND HABITAT MODELING
 08/13/1999 - 10/31/2002 FY01: \$101,404 Total: \$200,040
Prin. Invest.: M PRICE
Tech. Officer: JSC/R MCKELLIP
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 5 402 SOUTH DAKOTA SCHOOL OF MINES & TECH 8373
 NASA EPSCOR: PREPARATORY GRANT PROPOSAL
 05/14/1999 - 12/31/2001 FY01: \$0 Total: \$450,000
Prin. Invest.: S FARWELL
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 588 SOUTH DAKOTA SCHOOL OF MINES & TECH 8374
 THE USE OF REMOTE SENSING FOR MONITORING, PREDICTI ON, AND
 MANAGEMENT OF HYDROLIC, AGRICULTURAL, AND
 08/31/2001 - 08/31/2004 FY01: \$512,100 Total: \$512,100
Prin. Invest.: S O FARWELL
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30402 SOUTH DAKOTA SCHOOL OF MINES & TECH 8375
 SEMI-ARID GRASSLAND ECOSYSTEM FORCING: REPLACING NATIVE,
 FREE-RANGING UNGULATE GRAZING WITH HUMAN-
 09/05/2001 - 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: P R ZIMMERMAN
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 40042 SOUTH DAKOTA SCHOOL OF MINES & TECH 8376
 NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA
 01/24/1997 - 02/28/2001 FY01: -\$48,281 Total: \$759,219
Prin. Invest.: S O FARWELL
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40095 SOUTH DAKOTA SCHOOL OF MINES & TECH 8377
 SOUTH DAKOTA SPACE GRANT COLLEGE AND FELLOWSHIP PR OGRAM
 02/28/2001 - 02/28/2002 FY01: \$260,781 Total: \$260,781
Prin. Invest.: S O FARWELL, NONE
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 3445 SOUTH DAKOTA STATE UNIV 8378
 CHARACTERIZATION OF LANDSAT-7 GEOMETRY AND RADIOME TRY FOR
 LAND COVER ANALYSIS.
 10/04/1996 - 06/30/2001 FY01: \$24,769 Total: \$342,782
Prin. Invest.: HELDER
Tech. Officer: GSFC/D L WILLIAMS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 3540 SOUTH DAKOTA STATE UNIV 8379
 TM RADIOMETRIC CALIBRATION
 11/19/1996 - 06/30/2001 FY01: \$0 Total: \$266,146
Prin. Invest.: D HELDER
Tech. Officer: GSFC/DL WILLIAMS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 11351 SOUTH DAKOTA STATE UNIV 8380
 LANDSAT RADOMETRIC CALIBRATION: TOWARDS A 20 YEAR RECORD OF
 CALIBRATED THEMATIC MAPPER CLASS DAT FO
 09/14/2001 - 09/14/2004 FY01: \$99,975 Total: \$99,975
Prin. Invest.: D HELDER
Tech. Officer: GSFC/B L MARKHAM
CASE Category: 39 - ENVIRONMENTALSCI, OTHER

NCC 5 472 SOUTH DAKOTA STATE UNIV 8381
 AN INTEGRATED ASSESSMENT OF THE EARTH OBSRVER - 1 INSTRUMENT
 SUITE & THE LANDSAT 7 ENHANCED THEMATIC
 03/08/2000 - 12/31/2001 FY01: \$146,674 Total: \$188,090
Prin. Invest.: D HELDER
Tech. Officer: GSFC/S UNGAR
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

TENNESSEE

NAG 3 2454 CHRISTIAN BROTHERS COLLEGE 8382
 ROBUST STRATEGY FOR ROCKET ENGINE HEALTH MONITORIN G
 06/07/2000 - 05/31/2001 FY01: \$57,737 Total: \$144,264
Prin. Invest.: D SANTI
Tech. Officer: GRC/E WONG
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 5 10344 EAST TENNESSEE STATE UNIV 8383
 THE OUTER ATMOSPHERE OF MIRA VARIABLES (FUSE 00)
 01/31/2001 - 01/31/2002 FY01: \$20,623 Total: \$20,623
Prin. Invest.: D G LUTTERMOSER
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 8 1375 EAST TENNESSEE STATE UNIV 8384
 METASTABLE SOLUTION STRUCTURE AND OPTIMIZATION STRATEGIES IN
 PROTEIN CRYSTAL GROWTH
 06/18/1997 - 09/30/2003 FY01: \$121,057 Total: \$477,499
Prin. Invest.: L WILSON
Tech. Officer: MSFC/B GUYNES, MSFC/J MAYO
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 3 2298 FISK UNIV 8385
 SURFACE AND INTERFACIAL STRUCTURES OF METAL ULTRA- THIN FILM
 ON SIC AT ELEVATED TEMPERATURES
 10/14/1999 - 11/10/2001 FY01: \$0 Total: \$192,484
Prin. Invest.: D E COLLINS
Tech. Officer: GRC/G HUNTER
CASE Category: 43 - CHEMICAL ENGR

NAG 3 2308 FISK UNIV 8386
 SIZE GRADED QUANTUM DOT SOLAR ENERGY CELLS FOR SPA CE POWER
 TECHNOLOGY
 12/10/1999 - 11/30/2001 FY01: \$147,963 Total: \$282,963
Prin. Invest.: D O HENDERSON
Tech. Officer: GRC/E CLARK
CASE Category: 13 - PHYSICS

NAG 5 8876 FISK UNIV 8387
 NOVEL METHODS OF FABRICATION & EVALUATION OF ROOM TEMPERA-
 TURE X-RAY & GAMMA-RAY CDZNTE DETECTORS
 11/24/1999 - 10/31/2000 FY01: \$0 Total: \$35,000
Prin. Invest.: A BURGER
Tech. Officer: GSFC/N GEHRELS
CASE Category: 13 - PHYSICS

NAG 8 1604 FISK UNIV 8388
 OPTICAL TRAPPING AND MANIPULATION OF NANOCRYSTALS CREATED IN
 A LASER ABATION PLUME
 04/21/1999 - 04/20/2002 FY01: \$96,355 Total: \$300,971
Prin. Invest.: D O HENDERSON
Tech. Officer: MSFC/U
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NCC 8 133 FISK UNIV 8389
 FOR RESEARCH "FISK UNIV CENTER FOR PHOTONIC MATERIALS AND
 DEVICES"
 04/21/1997 - 12/31/2001 FY01: \$1,200,000 Total: \$5,200,000
Prin. Invest.: E SILHERMAN
Tech. Officer: MSFC/D O FRAZIER
CASE Category: 13 - PHYSICS

NCC 8 195 FISK UNIV 8390
 CHARACTERIZATION OF CRYSTALLINE PERFECTION OF BINARY AND
 TERNARY GAP SEMICONDUCTORS
 09/30/1999 - 09/29/2001 FY01: \$79,824 Total: \$199,759
Prin. Invest.: A BURGER
Tech. Officer: MSFC/C HUA SU
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1486 **MIDDLE TENNESSEE STATE UNIV** **8391**
 R/S DEVELOPMENT OF ANIONIC POLYELECTROLYTES FOR SOLID STATE BATTERY APPLICATION
 04/21/1998 - 01/31/2002 FY01: \$15,531 Total: \$164,531
Prin. Invest.: A C FRIEDLI
Tech. Officer: MSFC/C TALLEY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 6049 **RHODES COLLEGE** **8392**
 ACCELERATION OF THE SOLAR WIND
 07/25/1997 - 08/31/2000 FY01: \$0 Total: \$20,370
Prin. Invest.: D MACQUEEN
Tech. Officer: GSFC/M FORMAN
CASE Category: 11 - ASTRONOMY

NAG 2 1419 **TENNESSEE STATE UNIV** **8393**
 QUALITY OF SERVICE COMPARISONS BETWEEN SATELLITE, MIRCOWAVE, & T1 COMMUNICATIONS
 07/13/2000 - 06/14/2002 FY01: \$100,000 Total: \$200,000
Prin. Invest.: W A SMITH
Tech. Officer: ARC/K A FREEMAN, ARC/D CHOW
CASE Category: 22 - COMPUTER SCIENCE

NAG 2 1473 **TENNESSEE STATE UNIV** **8394**
 EMBODIMENT OF INTELLIGENT BEHAVIORS ON MOBILE ROBO TS
 04/18/2001 - 10/31/2001 FY01: \$132,567 Total: \$132,567
Prin. Invest.: M S ZEIN-SABATTO
Tech. Officer: ARC/S P COLOMBANO, ARC/S LAU
CASE Category: 22 - COMPUTER SCIENCE

NAG 2 6052 **TENNESSEE STATE UNIV** **8395**
 A PARTNERSHIP BETWEEN THE TENNESSEE STATE UNIV CTR OF EXCELLENCE, THE NM SUPERCOMPUTING CHALLENGE & 09/27/2001 - 09/30/2002 FY01: \$100,000 Total: \$100,000
Prin. Invest.: W A SMITH
Tech. Officer: ARC/B J COLLINS, ARC/A CARDENAS
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 3 1797 **TENNESSEE STATE UNIV** **8396**
 MELTING OF SOLID PARTICLES IN A FLUID UNDER MICROGRAVITY
 11/28/1995 - 08/31/2000 FY01: \$0 Total: \$599,924
Prin. Invest.: P X TAO
Tech. Officer: GRC/D S SINGH
CASE Category: 46 - MECHANICAL ENGR

NAG 3 2272 **TENNESSEE STATE UNIV** **8397**
 TECHNICAL RESEARCH/MENTORSHIP SYMPOSIUM '99 INTEGRATION OF EDUCATION, WORK CYCLES, AND GRADUATE SCH
 06/23/1999 - 06/30/2001 FY01: \$0 Total: \$200,000
Prin. Invest.: D B ROGERS
Tech. Officer: GRC/R F LAWRENCE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 3 2441 **TENNESSEE STATE UNIV** **8398**
 COLLEGE BOUND TO GRADUATE SCHOOL COLLEGE BOUND TO GRADUATE SCHOOL
 05/24/2000 - 11/30/2000 FY01: \$0 Total: \$49,750
Prin. Invest.: D B ROGERS
Tech. Officer: GRC/M CAWTHON
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 3 2471 **TENNESSEE STATE UNIV** **8399**
 TSU RESEARCH PROJECTS FOR INCREASING THE POOL OF MINORITY ENGINEERS
 07/10/2000 - 06/30/2002 FY01: \$92,400 Total: \$164,800
Prin. Invest.: D ROGERS, NONE
Tech. Officer: GRC/S MERRITT
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2577 **TENNESSEE STATE UNIV** **8400**
 THE NASA ENGINEERING AND SCIENCE COLLABORATIVE THE NASA ENGINEERING AND SCIENCE COLLABORATIVE
 04/18/2001 - 09/30/2001 FY01: \$762,940 Total: \$762,940
Prin. Invest.: D ROGERS
Tech. Officer: GRC/R LAWRENCE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 3 2606 **TENNESSEE STATE UNIV** **8401**
 COLLEGE BOUND TO GRADUATE SCHOOL PROGRAM COLLEGE BOUND TO GRADUATE SCHOOL PROGRAM
 05/23/2001 - 09/30/2001 FY01: \$53,212 Total: \$53,212
Prin. Invest.: D ROGERS
Tech. Officer: GRC/M BOROWSKI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10896 **TENNESSEE STATE UNIV** **8402**
 TSU SPACE SCIENCE AND ASTROBIOLOGY INITIATIVE
 05/04/2001 - 04/30/2002 FY01: \$200,000 Total: \$200,000
Prin. Invest.: M BUSBY
Tech. Officer: GSFC/M MATHEWS
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG10 217 **TENNESSEE STATE UNIV** **8403**
 NEW AUTOMATED WEB BASED TRACKING SYSTEM
 09/01/1997 - 09/30/2000 FY01: -\$78,110 Total: \$252,490
Prin. Invest.: S SINGH DEVGAN
Tech. Officer: KSC/K BALLARD
CASE Category: 22 - COMPUTER SCIENCE

NCC 2 1205 **TENNESSEE STATE UNIV** **8404**
 A PARTNERSHIP BETWEEN THE TSU CTR. OF EXCELLENCE & THE NM SUPERCOMPUTING CHALLENGE
 09/26/2000 - 09/30/2001 FY01: \$0 Total: \$70,800
Prin. Invest.: W A SMITH
Tech. Officer: ARC/M E DUENAS, ARC/K FREEMAN
CASE Category: 22 - COMPUTER SCIENCE

NCC 5 96 **TENNESSEE STATE UNIV** **8405**
 NASA/TSU NETWORK RESOURCE AND TRAINING SITE
 08/15/1995 - 08/14/2001 FY01: \$0 Total: \$2,878,000
Prin. Invest.: W A SMITH
Tech. Officer: GSFC/J HARRINGTON
CASE Category: 22 - COMPUTER SCIENCE

NCC 5 228 **TENNESSEE STATE UNIV** **8406**
 UNIV RESEARCH CENTER FOR AUTOMATED SPACE SCI 7/1/97 - 6/30/98.
 09/05/1997 - 06/30/2000 FY01: \$0 Total: \$3,525,000
Prin. Invest.: M BUSBY
Tech. Officer: GSFC/P SAKIMOTO
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 511 **TENNESSEE STATE UNIV** **8407**
 CENTER FOR AUTOMATED SPACE SCIENCE
 08/23/2000 – 06/30/2002 FY01: \$1,065,401 Total: \$1,500,000
Prin. Invest.: M BUSBY
Tech. Officer: GSFC/M MATHEWS
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NCC 5 531 **TENNESSEE STATE UNIV** **8408**
 NASA/TSU MINORITY UNIVERSITIES INFORMATION NETWORK FOR
 RESEARCH & EDUCATION/MUSPIN NRTSPROGRAM
 02/01/2001 – 01/31/2002 FY01: \$365,321 Total: \$365,321
Prin. Invest.: W A SMITH
Tech. Officer: GSFC/J HARRINGTON
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 8 1279 **TENNESSEE TECHNOLOGICAL UNIV** **8409**
 RESEARCH FOR JOVE
 01/21/1997 – 08/31/2000 FY01: -\$5 Total: \$74,995
Prin. Invest.: J C CHAI
Tech. Officer: MSFC/J P DOWDY, MSFC/J R PRUITT
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 8 1631 **TENNESSEE TECHNOLOGICAL UNIV** **8410**
 ANALYSIS OF NEARLY STEADY PHOTOSPHERIC FLOWS
 09/07/1999 – 09/08/2002 FY01: \$58,000 Total: \$87,000
Prin. Invest.: S HAN
Tech. Officer: MSFC/D HATHAWAY
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 8 1749 **TENNESSEE TECHNOLOGICAL UNIV** **8411**
 ACTIVE CONTROL OF LARGE, FLEXIBLE SPACE STRUCTURES USING
 SHAPE MEMORY ALLOYS
 10/02/2000 – 10/01/2001 FY01: \$37,813 Total: \$37,813
Prin. Invest.: S CANFIELD
Tech. Officer: MSFC/C K CARRINGTON
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 8 1793 **TENNESSEE TECHNOLOGICAL UNIV** **8412**
 CONCEPT DEL AND EVAL OF CAPTURE DEVICES FOR RENED ZOUS WITH
 TETHER-DRIVEN TRANSFER VEHICLES
 03/06/2001 – 02/15/2002 FY01: \$38,000 Total: \$38,000
Prin. Invest.: S CANFIELD
Tech. Officer: MSFC/K WELZN
CASE Category: 46 – MECHANICAL ENGR

NAG 8 1794 **TENNESSEE TECHNOLOGICAL UNIV** **8413**
 ENHANCEMENT OF EJECTOR EFFICIENCY IN ADVANCE RE- USABLE
 PROPULSION ENGINE
 03/13/2001 – 09/30/2003 FY01: \$60,000 Total: \$60,000
Prin. Invest.: S S HAN, J PIEDDIESON
Tech. Officer: MSFC/J J HUTT
CASE Category: 46 – MECHANICAL ENGR

NGT 8 52883 **TENNESSEE TECHNOLOGICAL UNIV** **8414**
 HYDROSTATIC EFFECTS ON YIELDING AND FATIGUE LIFE
 09/10/1999 – 09/09/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: C WILSON
Tech. Officer: MSFC/J DOWDY
CASE Category: 46 – MECHANICAL ENGR

NGT 8 52911 **TENNESSEE TECHNOLOGICAL UNIV** **8415**
 DEV & EVALUATION OF CAPTURE DEVICES FOR RENDEZVOUS WITH TETH-
 ER-DRIVEN TRANSFER VEHICLES
 06/26/2001 – 06/30/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: S CANFIELD
Tech. Officer: MSFC/S NASH-STEVENSON
CASE Category: 46 – MECHANICAL ENGR

NAG 5 7197 **UNIV OF MEMPHIS** **8416**
 NEW DIAGNOSTIC CONSTRAINTS FOR CORONAL HEATING AND LOOP
 DYNAMICS MODELS
 04/14/1998 – 04/30/2000 FY01: -\$1,504 Total: \$42,033
Prin. Invest.: J T SCHMELZ
Tech. Officer: GSFC/W WAGNER
CASE Category: 11 – ASTRONOMY

NAG 5 7617 **UNIV OF MEMPHIS** **8417**
 FUNDING FOR 'LANDSIDE HAZARD IN RESPONSE TO SHORT TERM
 CLIMATE CHANGE' (SENH98-0020)
 07/24/1998 – 06/30/2002 FY01: \$37,500 Total: \$225,000
Prin. Invest.: M ELLIS
Tech. Officer: GSFC/H V FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 9783 **UNIV OF MEMPHIS** **8418**
 OBSERVATIONAL CONSTRAINTS FOR CORONAL HEATING MODELS
 07/06/2000 – 06/30/2002 FY01: \$29,166 Total: \$60,429
Prin. Invest.: J T SCHMELZ
Tech. Officer: GSFC/W J WAGNER
CASE Category: 13 – PHYSICS

NCC 2 1244 **UNIV OF MEMPHIS** **8419**
 SODAS: MODELS OF SELF-ORGANIZING ONTOGENETIC DEVE LOPMENT
 FOR AUTONOMOUS ADAPTIVE SYSTEMS
 04/05/2001 – 02/28/2002 FY01: \$150,000 Total: \$150,000
Prin. Invest.: R KOZMA
Tech. Officer: ARC/T R GOVINDAN, ARC/S LAU
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 9031 **UNIV OF TENNESSEE – CHATTANOOGA** **8420**
 PRE-SERVICE TEACHER ENHANCEMENT PROGRAM
 02/04/2000 – 02/14/2002 FY01: \$109,673 Total: \$201,390
Prin. Invest.: T L PATTY
Tech. Officer: GSFC/B MEESON
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 1 2163 **UNIV OF TENNESSEE – KNOXVILLE** **8421**
 ATMOSPHERIC ENTRY STUDIES FOR MARS MISSIONS
 04/20/1999 – 06/30/2000 FY01: \$0 Total: \$20,000
Prin. Invest.: J E LYNE
Tech. Officer: LARC/M M MUNK
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 1 2292 **UNIV OF TENNESSEE – KNOXVILLE** **8422**
 HIGH-SPEED PROPULSION SYSTEMS MODELING & ANALYSIS MY 1/3
 04/18/2000 – 07/31/2000 FY01: -\$3,556 Total: \$62,030
Prin. Invest.: D W RIGGINS
Tech. Officer: LARC/C R MCCLINTON, LARC/S H STACK
CASE Category: 41 – AERONAUTICAL ENGR

NAG 5 4541 UNIV OF TENNESSEE - KNOXVILLE 8423
 METEORITE PETROGENESIS
 05/06/1997 - 03/31/2002 FY01: \$106,000 Total: \$537,000
Prin. Invest.: D V MCSWEEN, JR.
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 4842 UNIV OF TENNESSEE - KNOXVILLE 8424
 MINERALOGY AND SPECTRAL PROPERTIES OF LUNAR SOIL
 06/19/1997 - 04/30/2001 FY01: \$0 Total: \$102,000
Prin. Invest.: D A TAYLOR
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8405 UNIV OF TENNESSEE - KNOXVILLE 8425
 TOWARD THE CORE COLLAPSE SUPERNOVA MECHANISM: THE NEXT
 GENERATION INNEUTRINO TRANSPORT AND CONVE
 03/16/1999 - 08/31/2002 FY01: \$59,000 Total: \$167,694
Prin. Invest.: A MEZZACAPPA
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 8726 UNIV OF TENNESSEE - KNOXVILLE 8426
 PLANETARY PETROLOGY AND GEOCHEMISTRY
 08/04/1999 - 07/31/2002 FY01: \$24,000 Total: \$70,500
Prin. Invest.: L A TAYLOR
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8760 UNIV OF TENNESSEE - KNOXVILLE 8427
 TOWARDS INTELLIGENT DISTRIBUTED BIOLUMINESCENCE DE TECTION OF
 BIOLOGICAL CONTAMINATION AND STRESSORS
 08/26/1999 - 02/28/2002 FY01: \$131,155 Total: \$375,057
Prin. Invest.: G S SAYLER
Tech. Officer: GSFC/R CROUCH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 8773 UNIV OF TENNESSEE - KNOXVILLE 8428
 NHSE - THE NATIONAL HPCC SOFTWARE EXCHANGE
 09/07/1999 - 08/31/2002 FY01: \$50,000 Total: \$340,000
Prin. Invest.: J DONGARRA
Tech. Officer: GSFC/J R FISCHER
CASE Category: 22 - COMPUTER SCIENCE

NAG 5 8926 UNIV OF TENNESSEE - KNOXVILLE 8429
 THE POROSITY OF ASTEROIDS
 01/07/2000 - 12/31/2001 FY01: \$33,000 Total: \$64,350
Prin. Invest.: D BRITT
Tech. Officer: GSFC/J GRANT
CASE Category: 11 - ASTRONOMY

NAG 5 9061 UNIV OF TENNESSEE - KNOXVILLE 8430
 THE MINERALOGY OF THE INNER ASTEROID BELT
 02/15/2000 - 02/14/2003 FY01: \$40,900 Total: \$79,443
Prin. Invest.: D T BRITT
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 - ASTRONOMY

NAG 5 9158 UNIV OF TENNESSEE - KNOXVILLE 8431
 PETROGENESIS OF LUNAR AND PLANETARY CRUSTS AND MANTLES
 03/03/2000 - 02/28/2001 FY01: \$0 Total: \$109,000
Prin. Invest.: L A TAYLOR
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 10414 UNIV OF TENNESSEE - KNOXVILLE 8432
 PETROGENESIS OF PLANETARY CRUSTS AND MANTLES AND METEOR-
 ITES
 02/14/2001 - 02/14/2002 FY01: \$110,000 Total: \$110,000
Prin. Invest.: L A TAYLOR
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 10525 UNIV OF TENNESSEE - KNOXVILLE 8433
 DUST AND FELDSPAR MINERALOGY ON MARS FROM THERMAL EMISSION
 SPECTRA
 03/06/2001 - 03/14/2002 FY01: \$60,700 Total: \$60,700
Prin. Invest.: H MCSWEEN
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 10582 UNIV OF TENNESSEE - KNOXVILLE 8434
 AN INVESTIGATION OF THE PREHISTORY, FORMATION & EVOLUTION OF
 THE SOLAR SYSTEM THROUGH ULTRASENSIT
 03/19/2001 - 04/30/2002 FY01: \$25,000 Total: \$25,000
Prin. Invest.: N THONNARD
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 10635 UNIV OF TENNESSEE - KNOXVILLE 8435
 SPECIAL CONSIDERATIONS IN THE INTERPRETATION OF THERMAL
 INFRARED SPECTROSCOPY FROM LANDERS AN
 03/17/2001 - 03/14/2002 FY01: \$73,000 Total: \$73,000
Prin. Invest.: J MOERSCH
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 10666 UNIV OF TENNESSEE - KNOXVILLE 8436
 RECOGNIZING BIOTIC INFLUENCES ON PLANETARY EVOLU- TION: INVES-
 TIGATING THE BIOGEOCHEMICAL RECORD OF
 03/21/2001 - 03/31/2002 FY01: \$82,200 Total: \$82,200
Prin. Invest.: L KAH
Tech. Officer: GSFC/M MEYER
CASE Category: 11 - ASTRONOMY

NAG 5 10788 UNIV OF TENNESSEE - KNOXVILLE 8437
 REMOTE SENSING FOR MARTIAN EXOPALEONTOLOGY: DETEC TABILITY
 THRESHOLDS FOR AQUEOUS MINERALS AS A BAS
 04/23/2001 - 04/30/2002 FY01: \$50,000 Total: \$50,000
Prin. Invest.: J E MOERSH
Tech. Officer: GSFC/M MEYER
CASE Category: 11 - ASTRONOMY

NAG 5 10794 UNIV OF TENNESSEE - KNOXVILLE 8438
 MINERALOGY & SPECTRAL PROPERTIES OF LUNAR SOILS
 04/25/2001 - 04/30/2002 FY01: \$24,000 Total: \$24,000
Prin. Invest.: L TAYLOR
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 11201 UNIV OF TENNESSEE - KNOXVILLE 8439
 MINERALOGICAL MAPPING OF PUTATIVE MARTIAN PALEOLAKE BASINS
 08/07/2001 - 08/14/2002 FY01: \$50,000 Total: \$50,000
Prin. Invest.: J E MOERSCH
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 - ASTRONOMY

NAG 8 1442 UNIV OF TENNESSEE - KNOXVILLE 8440
 R/S PROJECT SEE (SATELITE ENERGY EXCHANGE) TEST OF EQUIVALENCE
 PRINCIPLE & MEASUREMENT OF GRAVITATION
 04/24/1998 - 01/31/2003 FY01: \$57,000 Total: \$177,000
Prin. Invest.: A J SANDERS
Tech. Officer: MSFC/J POE
CASE Category: 13 - PHYSICS

NAG 8 1568 UNIV OF TENNESSEE - KNOXVILLE 8441
 REVERSIBLE CRYOGENIC STORAGE OF MACROMOLECULAR CRYSTALS
 GROWN IN MICROGRAVITY
 01/15/1999 - 11/30/2002 FY01: \$146,300 Total: \$414,300
Prin. Invest.: G J BUNICK
Tech. Officer: MSFC/B V GUYNES, MSFC/D CHAFEE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 8 1669 UNIV OF TENNESSEE - KNOXVILLE 8442
 RESEARCH ENTITLED, "DEVELOPMENT OF A MONTE CARLO RADIATION
 TRANSPORT CODE SYSTEM FOR HEDS"
 08/16/2000 - 11/30/2003 FY01: \$57,000 Total: \$107,000
Prin. Invest.: L W TOWNSEND, T A GABRIEL, T W ARMSTRONG
Tech. Officer: MSFC/P DOTY
CASE Category: 13 - PHYSICS

NAG 8 1826 UNIV OF TENNESSEE - KNOXVILLE 8443
 STRUCTURAL STUDIES OF NUCLEOSOMES AND CHROMATIN
 09/06/2001 - 11/30/2004 FY01: \$57,000 Total: \$57,000
Prin. Invest.: G J BUNICK
Tech. Officer: MSFC/B GUYNES
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 9 1080 UNIV OF TENNESSEE - KNOXVILLE 8444
 BIOLUMINESCENT BIOREPORTER INTEGRATED CIRCUITS FOR
 MONITORING SPACECRAFT ENVIRONMENTS
 03/15/1999 - 03/14/2002 FY01: \$93,066 Total: \$386,132
Prin. Invest.: G S SAYLER
Tech. Officer: JPL/D JAN
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 9 1121 UNIV OF TENNESSEE - KNOXVILLE 8445
 PREDICTING ASTRONAUT RADIATION DOSE FROM SOLAR ENERGETIC
 07/01/1999 - 06/30/2000 FY01: \$0 Total: \$22,000
Prin. Invest.: J S NEAL
Tech. Officer: JSC/G BADHWAR
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 9 1123 UNIV OF TENNESSEE - KNOXVILLE 8446
 MEASUREMENT OF SECONDARY NEUTRON AND CHARGES PARTICAL
 SPECTRA
 07/01/1999 - 06/30/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: L W TOWNSEND
Tech. Officer: JSC/F A CUCINOTTA
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 9 1269 UNIV OF TENNESSEE - KNOXVILLE 8447
 FUNDING FOR RADIATION IMPACT STUDY
 03/29/2001 - 06/30/2001 FY01: \$22,000 Total: \$22,000
Prin. Invest.: J NEAL
Tech. Officer: JSC/G D BADHER
CASE Category: 56 - MEDICL

NAG10 221 UNIV OF TENNESSEE - KNOXVILLE 8448
 GRAVITATIONAL EFFECTS ON EMBRYOGENESIS
 07/31/1997 - 10/31/2000 FY01: -\$690 Total: \$239,788
Prin. Invest.: R CONGES
Tech. Officer: KSC/W KNOTT
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NCC 2 1187 UNIV OF TENNESSEE - KNOXVILLE 8449
 IN SITU & REMOTE SENSING OF MARTIAN GEOLOGY
 06/29/2000 - 06/30/2001 FY01: \$0 Total: \$29,534
Prin. Invest.: J E MOERSCH, E J HENRIKSEN
Tech. Officer: ARC/T L ROUSH, ARC
CASE Category: 32 - GEOLOGICAL SCIENCE

NCC 2 5310 UNIV OF TENNESSEE - KNOXVILLE 8450
 DEVELOPING INFORMATION POWER GRID BASED ALGORITHMS & SOFT-
 WARE
 03/15/1999 - 02/29/2000 FY01: \$0 Total: \$95,000
Prin. Invest.: J DONGARRA
Tech. Officer: ARC/S SAINI
CASE Category: 22 - COMPUTER SCIENCE

NCC 2 5312 UNIV OF TENNESSEE - KNOXVILLE 8451
 PERFORMANCE MODELING
 03/19/1999 - 02/29/2000 FY01: \$0 Total: \$90,000
Prin. Invest.: J DONGARRA
Tech. Officer: ARC/SSAINI
CASE Category: 22 - COMPUTER SCIENCE

NGT 1 52218 UNIV OF TENNESSEE - KNOXVILLE 8452
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
 06/04/1999 - 08/30/2000 FY01: \$0 Total: \$22,000
Prin. Invest.: B R STARR
Tech. Officer: LARC/T A TALAY, LARC/R A LEPSCH
CASE Category: 42 - ASTRONAUTICAL ENGR

NGT 5 50206 UNIV OF TENNESSEE - KNOXVILLE 8453
 EVALUATION OF CONSTRUCTED MICROBIAL COMMUNITIES AS INOCULA
 FORBIOLOGICAL SUPPORT SYSTEMS
 07/09/1998 - 07/14/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: G SAYLER
Tech. Officer: HQ/A NURRIDIN
CASE Category: 61 - PSYCHOLOGY BIOLOGY

NGT 5 50286 UNIV OF TENNESSEE - KNOXVILLE 8454
 THE PETROLOGY & TEMPORAL & SPATIAL EVOLUTION OF MARTIAN
 VOLCANISM FROM THERMAEMISSION DATA OF
 06/22/2000 - 07/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: H Y MCSWEEN
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 4387 UNIV OF TENN SPACE INST - TULLAHOMA 8455
 CONSTRAINING ACCRETION AND DIFFERENTIATION OF PLAN MODELLING
 04/24/1997 - 02/28/2002 FY01: \$50,000 Total: \$244,100
Prin. Invest.: D Y MCSWEEN, JR.
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAS 8 97301 UNIV OF TENN SPACE INST - TULLAHOMA 8456
 CRITICAL PHYSICAL PROCESSES, IGNITION, DDT LENGTHS AND TIME
 ACCURATE TREATMENTS
 07/30/1997 - 12/28/2001 FY01: \$59,000 Total: \$254,000
Prin. Invest.: J W MUELHAUSER
Tech. Officer: MSFC/J COLE
CASE Category: 13 - PHYSICS

NCC 2 5413 UNIV OF TENN SPACE INST - TULLAHOMA 8457
 ALGORITHMIC ENHANCEMENTS FOR UNSTEADY AERODYNAMICS &
 COMBUSTION APPLICATIONS
 12/14/2000 - 09/30/2001 FY01: \$40,224 Total: \$40,224
Prin. Invest.: S VENKATESWARAN
Tech. Officer: ARC/M E OLSEN
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2401 VANDERBILT UNIV 8458
 SEPARATION OF CARBON MONOXIDE AND CARBON DIOXIDE F OR MARS
 ISRU
 04/25/2000 - 11/30/2003 FY01: \$91,738 Total: \$138,305
Prin. Invest.: D LEVAN
Tech. Officer: GRC/R D GREEN
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 4988 VANDERBILT UNIV 8459
 MODEL ATMOSPHERES AND SPECTRA FOR EXTRASOLAR GIANT
 06/26/1997 - 06/14/2000 FY01: \$0 Total: \$89,354
Prin. Invest.: D SAUMON
Tech. Officer: GSFC/R BEEBE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7103 VANDERBILT UNIV 8460
 INVESTIGATION OF GROUND-BASED SINGLE EVENT EFFECTS : RELATION-
 SHIP TO SCALING, LOW-POWER, AND OTHER M
 03/13/1998 - 12/31/1999 FY01: -\$213 Total: \$49,739
Prin. Invest.: L MASSENGILL
Tech. Officer: GSFC/M M GATES
CASE Category: 45 - ELECTRICAL ENGR

NAG 5 8295 VANDERBILT UNIV 8461
 AN ADDITIONAL CONSTRAINT ON THE TIMESCALE FOR PLAN ET BUILDING
 02/22/1999 - 03/31/2001 FY01: \$0 Total: \$29,000
Prin. Invest.: D A WEINTRAUB
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8618 VANDERBILT UNIV 8462
 A STUDY OF ION OUTFLOW AS A SOURCE FOR THE MAGNETO SPHERE
 06/14/1999 - 06/30/2002 FY01: \$102,044 Total: \$172,044
Prin. Invest.: R CHAPPELL
Tech. Officer: GSFC/R HOFFMAN
CASE Category: 11 - ASTRONOMY

NAG 5 8906 VANDERBILT UNIV 8463
 THE PRESSURE IONIZATION OF HYDROGEN & THE INTERIOR OF JUPITER
 & SATURN
 12/29/1999 - 01/31/2002 FY01: \$27,000 Total: \$52,650
Prin. Invest.: D SAUMON
Tech. Officer: GSFC/J GRANT
CASE Category: 13 - PHYSICS

NAG 5 9565 VANDERBILT UNIV 8464
 NEW ISTP SOLAR MAX: A MULTI-SPACECRAFT STUDY OF THE FLOW OF IO-
 NOSPHERIC PLASMA
 05/09/2000 - 05/14/2002 FY01: \$0 Total: \$70,000
Prin. Invest.: C CHAPPELL
Tech. Officer: GSFC/R HOFFMAN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 9828 VANDERBILT UNIV 8465
 SINGLE EVENT EFFECTS IN COMBINATIONAL LOGIC.
 08/23/2000 - 08/31/2001 FY01: \$0 Total: \$25,000
Prin. Invest.: L MASSENGILL
Tech. Officer: GSFC/J BARTH
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 10572 VANDERBILT UNIV 8466
 THE TIMESCALE FOR THE FORMATION OF PLANETARY SYSTEMS
 03/13/2001 - 03/31/2002 FY01: \$15,000 Total: \$15,000
Prin. Invest.: D WEINTRAUB
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 - ASTRONOMY

NAG 8 1662 VANDERBILT UNIV 8467
 RECOVERY OF MINERALS IN MARTIAN SOILS VIA SUPERCRITICAL FLUID
 EXTRACTIONS.
 06/01/2000 - 11/30/2003 FY01: \$90,250 Total: \$135,250
Prin. Invest.: K A DEBELAK
Tech. Officer: MSFC/P DOTY
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1677 VANDERBILT UNIV 8468
 INVESTIGATION OF TGHE RELATIONSHIP BETWEEN UNDERCOOLING AND
 SOLIDIFICATION VELOCITY.
 05/08/2000 - 11/30/2003 FY01: \$142,500 Total: \$222,493
Prin. Invest.: R J BAYUZICK
Tech. Officer: MSFC/P DOTY
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1745 VANDERBILT UNIV 8469
 FLOW VISUALIZATION STUDIES IN MOLTEN ZONES
 09/29/2000 - 04/30/2002 FY01: \$32,500 Total: \$62,500
Prin. Invest.: A V ANIKUMER
Tech. Officer: MSFC/R GRUGEL
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 9 1273 VANDERBILT UNIV 8470
 DESIGN THROUGH MANUFACTURING: SOLID MODEL-FINITE ELEMENT
 ANALYSIS INTERFACE
 01/09/2001 - 09/30/2002 FY01: \$15,500 Total: \$15,500
Prin. Invest.: C HACHEY
Tech. Officer: JSC/R ARONOFF
CASE Category: 22 - COMPUTER SCIENCE

NCC 1 01018 **VANDERBILT UNIV** **8471**
 AEROELASTICITY IN ORNITHOPIC MICRO-AERIAL VEHICLES MY 1/3
 01/22/2001 – 09/30/2003 FY01: \$33,330 Total: \$33,330
Prin. Invest.: K D FRAMPTOM
Tech. Officer: LARC/D L RANEY, LARC/D E COX
CASE Category: 41 – AERONAUTICAL ENGR

NCC 1 01031 **VANDERBILT UNIV** **8472**
 SYSTEMS RISK ASSESSMENT AND ALLOCATION IN CONCEPTUAL DESIGN
 03/12/2001 – 12/31/2002 FY01: \$100,000 Total: \$100,000
Prin. Invest.: S MAHADEVAN
Tech. Officer: LARC/T A ZHANG
CASE Category: 41 – AERONAUTICAL ENGR

NCC 2 1127 **VANDERBILT UNIV** **8473**
 ADSORPTION EQUILIBRIUM & FIXED BED PERFORMANCE FOR REGENERABLE INCINERATOR EXHAUST PURIFICATION & T
 06/21/1999 – 06/30/2002 FY01: \$68,008 Total: \$180,404
Prin. Invest.: M D LEVAN
Tech. Officer: ARC/J E FINN
CASE Category: 43 – CHEMICAL ENGR

NCC 2 1238 **VANDERBILT UNIV** **8474**
 ROBUST METHODS FOR AUTONOMOUS FAULT ADAPTIVE CONTROL OF COMPLEX SYSTEMS
 04/06/2001 – 02/28/2002 FY01: \$90,000 Total: \$90,000
Prin. Invest.: G BISWAS
Tech. Officer: ARC/R MORRIS, ARC/D J CLANCY
CASE Category: 22 – COMPUTER SCIENCE

NCC 2 5384 **VANDERBILT UNIV** **8475**
 MODELING OF HYBRID MEMBRANE/ADSORBER FOR CARBON DIOXIDE REMOVAL AND COMPARISON WITH FOUR-BED MOLE..
 05/30/2000 – 06/30/2002 FY01: \$36,876 Total: \$48,637
Prin. Invest.: M D LEVAN
Tech. Officer: ARC/J E FINN
CASE Category: 43 – CHEMICAL ENGR

NGT 1 52227 **VANDERBILT UNIV** **8476**
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
 01/20/2000 – 12/31/2001 FY01: \$12,001 Total: \$34,001
Prin. Invest.: A COX
Tech. Officer: LARC/G C HORNER
CASE Category: 46 – MECHANICAL ENGR

NGT 5 105 **VANDERBILT UNIV** **8477**
 CHARACTERIZATION OF PROTON RADIATION EFFECTS IN LI NEAR BIPOLAR DEVICES & CIRCUITS/STUDENT: H BARNAB
 05/26/2000 – 06/30/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: R D SCHRIMPF
Prin. Invest.: NONE
Tech. Officer: GSFC/G A SOFFEN
CASE Category: 45 – ELECTRICAL ENGR

NGT 5 40054 **VANDERBILT UNIV** **8478**
 TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATIONWIDE COLLEGE AND FELLOWSHIP PROGRAM.
 02/12/1997 – 01/31/2001 FY01: \$0 Total: \$1,790,750
Prin. Invest.: A M STRAUSS
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCIPLINARY, OTHER

NGT 5 40074 **VANDERBILT UNIV** **8479**
 TENNESSEE SPACE GRANT COLLEGE & FELLOWSHIP PROGRAM
 02/09/2001 – 01/31/2002 FY01: \$460,750 Total: \$460,750
Prin. Invest.: A M STRAUSS
Tech. Officer: GSFC/D D DETROYE
CASE Category: 99 – MULTI INTERDISCIPLINARY, OTHER

NGT 5 50209 **VANDERBILT UNIV** **8480**
 INVESTIGATION OF EFFECTS OF DILUTE OXYGEN SOLUTE ON NUCLEATION OF ZIRCONIUM
 07/10/1998 – 06/30/2002 FY01: \$0 Total: \$66,000
Prin. Invest.: R BAYUZICK
Tech. Officer: HQ/A NURRIDIN
CASE Category: 43 – CHEMICAL ENGR

NGT 8 52839 **VANDERBILT UNIV** **8481**
 R/S "GRADUATE STUDENT RESEARCH PROGRAM" FELLOWSHIP
 07/23/1997 – 01/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: M GOLDFARB
Tech. Officer: MSFC/J F DOWDY, MSFC/J R PRUITT
CASE Category: 46 – MECHANICAL ENGR

NGT 8 52852 **VANDERBILT UNIV** **8482**
 RELIABILITY METHODS FOR AEROSPACE STRUCTURES
 07/01/1998 – 06/14/2000 FY01: -\$491 Total: \$43,017
Prin. Invest.: S MAHADEVAN
Tech. Officer: MSFC/J F DOWDY
CASE Category: 49 – ENGINEERING, OTHER

NGT 8 52857 **VANDERBILT UNIV** **8483**
 SCALED FORCE REFLECTIVE TELEMANIPULATION FOR ONBOARD DESTEROUS MANIPULATION OF MICROGRAVITY
 07/23/1998 – 08/12/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: M GOLDFARB
Tech. Officer: MSFC/J F DOWDY
CASE Category: 46 – MECHANICAL ENGR

NGT 8 52859 **VANDERBILT UNIV** **8484**
 INTEGRATION OF HAPTIC FEEDBACK INTO VIRTUAL ENVIRONMENTS FOR MISSION OPERATION APPLICATION
 07/23/1998 – 08/14/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: M GOLDFARB
Tech. Officer: MSFC/J F DOWDY
CASE Category: 46 – MECHANICAL ENGR

NGT 8 52868 **VANDERBILT UNIV** **8485**
 RELIABILITY ASSURANCE OF AEROSPACE SYSTEMS
 09/09/1999 – 09/08/2000 FY01: -\$181 Total: \$17,819
Prin. Invest.: S MAHADEVAN
Tech. Officer: MSFC/J F DOWDY
CASE Category: 41 – AERONAUTICAL ENGR

NGT 8 52905 **VANDERBILT UNIV** **8486**
 DESIGN AND FABRICATION OF INDIUM-TIN-OXIDE (ITO) MICRO-SCALE STRAIN SENSORS
 05/25/2001 – 07/01/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: R A WELLER
Tech. Officer: MSFC/S NASH-STEVENSON
CASE Category: 46 – MECHANICAL ENGR

NGT 8 52907 **VANDERBILT UNIV** **8487**
 AEROSPACE STRUCTURAL SYSTEM RELIABILITY ASSESSMENT
 05/25/2001 – 07/01/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: S MAHADEVAN
Tech. Officer: MSFC/S NASH–STEVENSON
CASE Category: 44 – CIVIL ENGR

NGT 8 52910 **VANDERBILT UNIV** **8488**
 UV RAMAN LINESHAPES FOR TEMPERATURE DETERMINATION
 05/31/2001 – 06/30/2001 FY01: \$22,000 Total: \$22,000
Prin. Invest.: R W PITZ
Tech. Officer: MSFC/S NASH–STEVENSON
CASE Category: 46 – MECHANICAL ENGR

NGT 9 52 **VANDERBILT UNIV** **8489**
 MACHINE PERCEPTION TO FACILITATE HUMAN–ROBOT INTER ACTION
 07/17/2000 – 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: R A PETERS II
Tech. Officer: JSC/C J CULBERT
CASE Category: 49 – ENGINEERING, OTHER

TEXAS

NAG 5 10102 **AUSTIN COLLEGE-SHERMAN** **8490**
 FLOOD FORECASTING USING A REGIONAL SCALE ATMOSPHERE/LAND-SURFACE MODELING SYSTEM.
 12/11/2000 – 12/14/2001 FY01: \$32,134 Total: \$32,134
Prin. Invest.: D R BAKER
Tech. Officer: GSFC/H V FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 2 1355 **BAYLOR COLLEGE OF MEDICINE** **8491**
 ROLE OF MATH1 IN DEVELOPMENT & FUNCTION OF PROPRIO RECEPTORS
 07/22/1999 – 07/14/2002 FY01: \$199,554 Total: \$494,733
Prin. Invest.: H J BELLEN, H Y ZOGHBI
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 2 1357 **BAYLOR COLLEGE OF MEDICINE** **8492**
 THE INTERACTIVE COUPLING OF CYTOSKELETON & SIGNAL TRANSDUC-TION ELEMENTS IN GRAVITY SENSITIVITY OF T-
 07/23/1999 – 07/31/2002 FY01: \$178,021 Total: \$435,419
Prin. Invest.: B B HASHEMI
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 2 1496 **BAYLOR COLLEGE OF MEDICINE** **8493**
 SENSELESS AND GF1 IN SENSORY NEURON AND HAIR CELL DEVELOP-MENT
 07/11/2001 – 06/30/2002 FY01: \$139,783 Total: \$139,783
Prin. Invest.: H J BELLEN
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 8 1383 **BAYLOR COLLEGE OF MEDICINE** **8494**
 FOR RESEARCH ENTITLED "LIVER TISSUE ENGINEERING IN MICROGRAVITY ENVIRONMENT"
 06/26/1997 – 11/30/2001 FY01: \$100,000 Total: \$619,000
Prin. Invest.: B YOFE
Tech. Officer: MSFC/C R TALLEY
CASE Category: 56 – MEDICL

NAG 8 1387 **BAYLOR COLLEGE OF MEDICINE** **8495**
 FOR RESEARCH ENTITLED: "TWO DIMENSIONAL CRYSTAL GROWTH IN MICROGRAVITY"
 06/23/1997 – 11/30/2000 FY01: \$0 Total: \$493,348
Prin. Invest.: T G WENSEL
Tech. Officer: MSFC/B GUYBES, MSFC/J MAYO
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1583 **BAYLOR COLLEGE OF MEDICINE** **8496**
 ISLET CELL ASSEMBLY AND FUNCTION IN A NASA MICROGRAVITY BIOREACTOR
 02/02/1999 – 11/30/2002 FY01: \$137,750 Total: \$394,748
Prin. Invest.: A S RAJAN, NONE
Tech. Officer: JSC/N R PELLIS
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 9 1052 **BAYLOR COLLEGE OF MEDICINE** **8497**
 BIOPHYSICAL MODELS OF DNA DAMAGE,MUTATION,&...
 08/25/1998 – 09/24/2001 FY01: \$15,000 Total: \$271,674
Prin. Invest.: L E PETERSON
Tech. Officer: JSC/F A CUCINOTTA
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 9 1133 **BAYLOR COLLEGE OF MEDICINE** **8498**
 DSO MAGNETIC RESONANCE IMAGING MRI AFTER EXPOSURE TO MICROGRAVITY
 07/21/1999 – 01/30/2001 FY01: \$0 Total: \$90,072
Prin. Invest.: A LEBLANC
Tech. Officer: JSC/L SHACKE/FORD
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 9 1153 **BAYLOR COLLEGE OF MEDICINE** **8499**
 PROTECTING SCIENTIFIC INTEGRITY THROUGH DISCLOSURE OF CONFLICTS OF INTERESTS
 09/13/1999 – 09/30/2002 FY01: \$238,541 Total: \$534,934
Prin. Invest.: B A BRODY
Tech. Officer: JSC/C LLOYD
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 9 1158 **BAYLOR COLLEGE OF MEDICINE** **8500**
 ROLE OF GROWTH HORMONE SECRETOGOUS AND EXERCISE ON MUSCLE HOMEOSTASIS UNDER MICROGRAVITY
 10/01/1999 – 10/31/2002 FY01: \$261,666 Total: \$535,172
Prin. Invest.: B J SCHWARTZ
Tech. Officer: JSC/C LLOYD
CASE Category: 56 – MEDICL

NAG 9 1253 **BAYLOR COLLEGE OF MEDICINE** **8501**
 EFFECTS OF ANTI-ORTHOSTATIC SUSPENSION ON INNATE IMMUNITY
 09/11/2000 – 08/31/2003 FY01: \$152,259 Total: \$182,711
Prin. Invest.: C SMITH
Tech. Officer: JSC/C LLOYD
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 9 1361 BAYLOR COLLEGE OF MEDICINE 8502
 LIVER TISSUE ENGINEERING IN MICROGRAVITY ENVIRONMENT
 07/13/2001 – 09/30/2004 FY01: \$47,000 Total: \$47,000
Prin. Invest.: B YOFEE
Tech. Officer: JSC/D RISIN
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NCC 9 58 BAYLOR COLLEGE OF MEDICINE 8503
 NATIONAL SPACE BIOMEDICAL RESEARCH INST
 03/26/1997 – 09/30/2002 FY01: \$26,478,997 Total: \$68,173,063
Prin. Invest.: B R ALFORD, M.D.
Tech. Officer: JSC/C F SAWIN
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NCC 9 61 BAYLOR COLLEGE OF MEDICINE 8504
 PREVENTION OF BED REST OSTEOPOROSIS
 05/23/1997 – 05/23/2002 FY01: \$419,527 Total: \$2,320,039
Prin. Invest.: A D LE BLANC
Tech. Officer: JSC/L C SHACKELFORD
CASE Category: 56 – MEDICL

NCC 9 88 BAYLOR COLLEGE OF MEDICINE 8505
 COMPARISON OF STRENGTH TRAINING WITH ISS INTERIM RESISTANCE
 EXERCISE DEVISE VS FREE
 07/20/1999 – 01/31/2002 FY01: \$6,720 Total: \$29,760
Prin. Invest.: A BEBLANC
Tech. Officer: JSC/S SCHNEIDER
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 8566 HOUSTON COMMUNITY COLLEGE 8506
 NASA/HCC SCIENCE CHALLENGE PROGRAM
 05/20/1999 – 12/31/2000 FY01: \$0 Total: \$150,000
Prin. Invest.: C GARCIA
Tech. Officer: GSFC/M MATEU
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10239 HOUSTON COMMUNITY COLLEGE 8507
 NASA HCC SCIENCE CHALLENGE PROGRAM
 01/10/2001 – 12/31/2001 FY01: \$149,298 Total: \$149,298
Prin. Invest.: C GARCIA
Tech. Officer: GSFC/M MATEU
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 9 1065 JARVIS CHRISTIAN COLLEGE 8508
 PACE/MSET SUMMER CAMP CAMP FOR TRAINING & MENTORING
 01/07/1999 – 12/31/2001 FY01: \$100,000 Total: \$300,000
Prin. Invest.: M J MCKINNEY
Tech. Officer: JSC/L ARMENDARIZ
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NCC 9 126 LAMAR UNIV 8509
 DEVELOPMENT OF MINIATURE LASER MASS SPECTROMETER SYSTEM
 FOR PLANETARY STUDIES
 04/20/2001 – 07/14/2003 FY01: \$200,000 Total: \$200,000
Prin. Invest.: S L JORDAN, G M IRWIN
Tech. Officer: SSC/G A MCKAY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 9 1174 LE TOURNEAU UNIV 8510
 DIAGNOSTIC OF CARNON NANOTUBE FORMATION IN A LASER PRODUCED
 PLUME
 10/25/1999 – 10/25/2000 FY01: -\$291 Total: \$15,209
Prin. Invest.: G D DEBOER
Tech. Officer: JSC/B S FILES, JSC/C SCOTT
CASE Category: 13 – PHYSICS

NAG 9 1274 LE TOURNEAU UNIV 8511
 ANALYSIS OF ARBON NAONTUBE FORMATION & EMISSION SP ECTRA IN
 LASER ABLATION PROCESS
 01/09/2001 – 01/30/2002 FY01: \$15,500 Total: \$15,500
Prin. Invest.: G DE BOER
Tech. Officer: JSC/C SCOTT
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 9 1170 OUR LADY OF THE LAKE UNIV 8512
 ENGAGING EDUCATORS IN THE EARTH/SCIENCE ENTERP
 09/24/1999 – 09/29/2001 FY01: \$60,152 Total: \$199,304
Prin. Invest.: K A WARD
Tech. Officer: JSC/L ARMENDARIZ
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 3 2065 PRAIRIE VIEW A&M UNIV 8513
 RADIATION EFFECTS ON DC-DC CONVERTERS RADIATION EFFECTS ON
 DC-DC CONVERTER
 08/01/1997 – 09/30/1999 FY01: -\$1,557 Total: \$392,157
Prin. Invest.: J O ATTIA, R SCHRIMPF, K F GALLOWAY
Tech. Officer: GRC/M D KANKAM
CASE Category: 45 – ELECTRICAL ENGR

NAG 4 148 PRAIRIE VIEW A&M UNIV 8514
 RADIATION EFFECTS ON ELECTRONIC MATERIAL AND DEVICES
 03/03/1998 – 02/27/2002 FY01: \$0 Total: \$266,999
Prin. Invest.: R WILKINS
Tech. Officer: DFRC/E COX
CASE Category: 41 – AERONAUTICAL ENGR

NAG 4 210 PRAIRIE VIEW A&M UNIV 8515
 MITIGATION OF HIGH ALTITUDE AND LOW EARTH ORBIT RA DIATION
 EFFECTS ON MICROELECTRONICSVIA SHIELDING
 06/07/2000 – 06/06/2003 FY01: \$100,000 Total: \$200,000
Prin. Invest.: D K KIRBY
Tech. Officer: DFRC/D GUPTA
CASE Category: 41 – AERONAUTICAL ENGR

NAG 5 5130 PRAIRIE VIEW A&M UNIV 8516
 STUDY OF RADIATION EFFECTS ON ELECTRONIC DEVICES AT HIGH
 ATMOSPHERE ALTITUDES
 07/02/1997 – 09/30/2000 FY01: \$0 Total: \$33,941
Prin. Invest.: R WILKINS
Tech. Officer: GSFC/H NEEDLEMAN
CASE Category: 13 – PHYSICS

NAG 5 6823 PRAIRIE VIEW A&M UNIV 8517
 ENHANCEMENT OF TEXGED, PVAMU TO BE A CENTER OF EXC ELLENCE IN
 APPLICATIONS OF REMOTE SENSING TO REGI
 01/30/1998 – 12/31/2000 FY01: \$0 Total: \$53,308
Prin. Invest.: S H SHAKIR
Tech. Officer: GSFC/M WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 11070 PRAIRIE VIEW A&M UNIV 8518
 CENTER FOR APPLIED RADIATION RESEARCH PARTNERSHIP PROGRAM
 06/29/2001 – 05/31/2002 FY01: \$200,000 Total: \$200,000
Prin. Invest.: R WILKINS
Tech. Officer: GSFC/J MALONE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 8 1338 PRAIRIE VIEW A&M UNIV 8519
 ESTABLISHMENT OF A SOLAR OBSERVATORY AND STUDIES ON THE
 SOLAR ATMOSPHERE
 03/18/1997 – 03/31/2003 FY01: \$100,000 Total: \$438,700
Prin. Invest.: T HUANG
Tech. Officer: MSFC/J M DAVIS
CASE Category: 11 – ASTRONOMY

NAG 8 1644 PRAIRIE VIEW A&M UNIV 8520
 ADVANCED FUEL INJECTOR OPTIMIZATION FOR RBCC ENGINE CONCEPT
 09/30/1999 – 09/30/2002 FY01: \$100,000 Total: \$200,000
Prin. Invest.: Z HAQUE, N BUTUK
Tech. Officer: MSFC/A BEAM, MSFC/W LOVE
CASE Category: 43 – CHEMICAL ENGR

NAG 9 1136 PRAIRIE VIEW A&M UNIV 8521
 POWER QUALITY AND RELIABILITY
 08/24/1999 – 08/23/2001 FY01: \$0 Total: \$100,000
Prin. Invest.: W F TROTTEY, J ATTIA
Tech. Officer: JSC/W C ROEH, JSC/L M ARMENDARIZA
CASE Category: 46 – MECHANICAL ENGR

NAG 9 1241 PRAIRIE VIEW A&M UNIV 8522
 USE OF ELECTROMIGRATION TO IMMOBILIZE METAL IONS
 06/22/2000 – 05/31/2003 FY01: \$60,000 Total: \$120,000
Prin. Invest.: R CUERO
Tech. Officer: JSC/D S MCKAY, JSC/L ARMENDARIZ
CASE Category: 55 – AGRICULTURE

NAG 9 1370 PRAIRIE VIEW A&M UNIV 8523
 RADIATION EXPOSURE EFFECTS & SHIELDING ANALYSIS OF CARBON
 NANTUBE MATERIALS
 07/30/2001 – 12/29/2001 FY01: \$37,000 Total: \$37,000
Prin. Invest.: R WILKINS
Tech. Officer: JSC/A LEE, JSC/L M ARMENDARIZ
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG13 46 PRAIRIE VIEW A&M UNIV 8524
 TEXAS GULF COAST ENVIRONMENTAL DATA CENTER SAME
 10/04/1995 – 04/20/2001 FY01: \$0 Total: \$270,125
Prin. Invest.: S SHAKIR
Tech. Officer: SSC/A JOYCE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NCC 3 577 PRAIRIE VIEW A&M UNIV 8525
 RESEARCH TO SIGNIFICANTLY ENHANCE COMPOSITES SURVIVAL ABILITY AT
 550 DEGREES F IN OXIDATIVE ENVIRONMENT
 09/26/1997 – 05/31/2002 FY01: \$136,102 Total: \$336,102
Prin. Invest.: L E CARSON-ISABELLE
Tech. Officer: GRC/M A MEADOR
CASE Category: 12 – CHEMISTRY

NCC 5 115 PRAIRIE VIEW A&M UNIV 8526
 ESTABLISHMENT OF A NASA SOUTHWEST REGIONAL NETWORK
 RESOURCES TRAINING SITE
 08/15/1995 – 09/14/2001 FY01: \$62,418 Total: \$2,926,418
Prin. Invest.: J R WILLIAMS
Tech. Officer: GSFC/J HARRINGTON
CASE Category: 22 – COMPUTER SCIENCE

NCC 5 529 PRAIRIE VIEW A&M UNIV 8527
 NASA SOUTHWEST REGIONAL NETWORK RESOURCES AND TRAINING
 SITE/MUSPIN NRTS PROGRAM.
 02/01/2001 – 01/31/2002 FY01: \$350,000 Total: \$350,000
Prin. Invest.: J WILLIAMS
Tech. Officer: GSFC/J HARRINGTON
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NCC 5 591 PRAIRIE VIEW A&M UNIV 8528
 IMPROVEMENT OF THE SOLAR OBSERVATION FACILITIES AT PRAIRIE
 VIEW SOLAR OBSERVATORY
 09/14/2001 – 09/14/2002 FY01: \$35,500 Total: \$35,500
Prin. Invest.: D HUANG
Tech. Officer: GSFC/J HARRINGTON
CASE Category: 11 – ASTRONOMY

NCC 9 50 PRAIRIE VIEW A&M UNIV 8529
 TRANSFERRED FROM HQ (NCCW-0086) & INCR FUND
 02/13/1997 – 08/30/2000 FY01: -\$3,323 Total: \$4,401,470
Prin. Invest.: T N FOGARTY
Tech. Officer: JSC/J D ATKINSON
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NCC 9 66 PRAIRIE VIEW A&M UNIV 8530
 SOFTWARE ENGINEERING INITIATIVE
 09/25/1997 – 12/31/2002 FY01: \$526,692 Total: \$1,923,119
Prin. Invest.: J D OLIVER
Tech. Officer: JSC/L MCWHORTER, JSC/K MARTINDALE
CASE Category: 49 – ENGINEERING, OTHER

NCC 9 114 PRAIRIE VIEW A&M UNIV 8531
 CENTER APPLIED RADIATION RESEARCH
 09/27/2000 – 08/31/2005 FY01: \$999,999 Total: \$1,419,999
Prin. Invest.: R WILKINS
Tech. Officer: JSC/F A CUCINOTTA
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 1 2134 RICE UNIV 8532
 NONLINEAR RECEPTIVITY AND BY-PASS TRANSITION IN THREE-DIMEN-
 SIONAL BOUNDARY LAYERS NRA 98 LARC5
 02/10/1999 – 01/31/2002 FY01: \$39,508 Total: \$117,458
Prin. Invest.: S S COLLIS
Tech. Officer: LARC/R R ANTOLIFF
CASE Category: 41 – AERONAUTICAL ENGR

NAG 2 1401 RICE UNIV 8533
 VIRTUAL PROTOTYPING FOR CARBON NANOTUBES
 04/24/2000 – 03/14/2002 FY01: \$43,212 Total: \$113,437
Prin. Invest.: B YAKOBSON
Tech. Officer: ARC/M MEYYAPPAN, ARC/H PARTRIDGE
CASE Category: 13 – PHYSICS

NAG 3 2365 **RICE UNIV** **8534**
 THERMAL PROTECTIVE COATING FOR HIGH TEMPERATURE POLYMER COMPOSITES
 03/23/2000 – 03/31/2001 FY01: \$0 Total: \$35,000
Prin. Invest.: A BARRON
Tech. Officer: GRC/K C CHUANG
CASE Category: 12 – CHEMISTRY

NAG 3 2534 **RICE UNIV** **8535**
 AD HOC NETWORKS IN SPACE AND SURFACE SYSTEMS AD HOC NETWORKS IN SPACE AND SURFACE SYSTEMS
 03/07/2001 – 12/31/2003 FY01: \$325,082 Total: \$325,082
Prin. Invest.: D B JOHNSON
Tech. Officer: GRC/D FOLTZ
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 2736 **RICE UNIV** **8536**
 NATIONAL SOFTWARE EXCHANGE FOR THE HIGH PERFORMANCE COMPUTING COMMUNICATIONS PROGRAM
 09/22/1994 – 09/30/2000 FY01: \$0 Total: \$4,187,500
Prin. Invest.: K KENNEDY
Tech. Officer: GSFC/J R FISCHER
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 4072 **RICE UNIV** **8537**
 NASA SPECIALIZED CENTER OF RESEARCH AND TRAINING (AL BIOLOGY)
 04/07/1997 – 02/28/2002 FY01: \$362,511 Total: \$3,309,837
Prin. Invest.: L MCINTIRE
Tech. Officer: GSFC/D LASKOWSKY
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 4267 **RICE UNIV** **8538**
 COMPREHENSIVE COMPUTATIONAL MODEL OF THE EARTH'S RING
 03/25/1997 – 05/14/2001 FY01: \$0 Total: \$153,886
Prin. Invest.: D A WOLF
Tech. Officer: GSFC/J BOHLIN
CASE Category: 13 – PHYSICS

NAG 5 4726 **RICE UNIV** **8539**
 DEVELOPMENT AND APPLICATIONS OF A MODULAR MODEL OF MAGNETOSPHERE
 06/19/1997 – 05/14/2002 FY01: \$0 Total: \$268,344
Prin. Invest.: D R TOFFOLETTO
Tech. Officer: GSFC/D EVANS
CASE Category: 13 – PHYSICS

NAG 5 4822 **RICE UNIV** **8540**
 THE OPEN POLAR CAP: COMPARISON OF POLAR IMAGES WITH
 06/17/1997 – 06/14/2001 FY01: \$0 Total: \$188,000
Prin. Invest.: D W HILL
Tech. Officer: GSFC/J GREBOWSKY
CASE Category: 13 – PHYSICS

NAG 5 6432 **RICE UNIV** **8541**
 MAGNETOSPHERIC CONVECTION AT JUPITER & SATURN
 10/14/1997 – 07/14/2002 FY01: \$0 Total: \$216,449
Prin. Invest.: D HILL
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 7037 **RICE UNIV** **8542**
 SOLAR WIND INTERACTION AT VENUS TO MARS, INCLUDING THE MAGNETIC EFFECTS OF THE MARTIAN CRUSTAL MAGNETIC FIELD
 02/20/1998 – 02/28/2002 FY01: \$20,000 Total: \$189,498
Prin. Invest.: P A CLOUTIER
Tech. Officer: GSFC/M H ACUNA
CASE Category: 13 – PHYSICS

NAG 5 7980 **RICE UNIV** **8543**
 MODELING BATSE GAMMA-RAY BURST CONTINUUM SPECTRA AND SPECTRAL EVOLUTION
 01/19/1999 – 01/14/2002 FY01: \$0 Total: \$32,000
Prin. Invest.: E P LIANG
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 8131 **RICE UNIV** **8544**
 NUMERICAL SIMULATION OF ROTATION-DRIVEN PLASMA TRANSPORT IN THE JOVIAN MAGNETOSPHERE
 01/28/1999 – 01/31/2002 FY01: \$74,497 Total: \$212,054
Prin. Invest.: D W HILL
Tech. Officer: GSFC/D EVANS
CASE Category: 11 – ASTRONOMY

NAG 5 8136 **RICE UNIV** **8545**
 "COMPREHENSIVE QUANTITATIVE MODEL OF INNER-MAGNETOSPHERE DYNAMICS."
 01/29/1999 – 01/31/2002 FY01: \$290,000 Total: \$711,296
Prin. Invest.: R A WOLF
Tech. Officer: GSFC/J GREBOWSKY
CASE Category: 13 – PHYSICS

NAG 5 8380 **RICE UNIV** **8546**
 DATA ANALYSIS FOR POLAR MAGNETIC FIELD EXPERIMENT
 04/26/1999 – 12/31/2000 FY01: \$0 Total: \$65,000
Prin. Invest.: P REIFF
Tech. Officer: GSFC/R HOFFMAN
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 9011 **RICE UNIV** **8547**
 FAR-UV OBSERVATIONS OF LOW AND HIGH-EXCITATION HERBIG-HARO SHOCKS – FUSE
 02/02/2000 – 01/31/2002 FY01: \$0 Total: \$28,200
Prin. Invest.: P HARTIGAN
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 – ASTRONOMY

NAG 5 9077 **RICE UNIV** **8548**
 ACCELERATION & TRANSPORT OF ENERGETIC PARTICLES IN THE OUTER MAGNETOSPHERE
 02/23/2000 – 08/31/2002 FY01: \$82,349 Total: \$157,749
Prin. Invest.: R WOLF
Tech. Officer: GSFC/J SHARBER
CASE Category: 99 – MULTI INTERDISCIPLINARY, OTHER

NAG 5 9212 **RICE UNIV** **8549**
 SIMULTANEOUS MULTIWAVELENGTH OBSERVATIONS OF GX 339-4 IN 1999
 AUGUST (ADP 99)
 03/10/2000 - 03/14/2001 FY01: \$0 Total: \$50,000
Prin. Invest.: E LANG
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9223 **RICE UNIV** **8550**
 NUMERICAL SIMULATION OF HIGH ENERGY EMISSIONS FROM COMPACT
 OBJECTS
 03/14/2000 - 03/14/2002 FY01: \$104,043 Total: \$199,102
Prin. Invest.: E LIANG
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9904 **RICE UNIV** **8551**
 STUDY OF THE SOFT GAMMA-RAY REPEATERS
 08/29/2000 - 08/31/2001 FY01: \$0 Total: \$7,900
Prin. Invest.: E P LIANG
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 - ASTRONOMY

NAG 5 10432 **RICE UNIV** **8552**
 "PRECISION MINING" OF LARGE SPECTRAL DATA VOLUMES FOR RAPID
 IDENTIFICATION OF PLANETARY
 02/27/2001 - 08/31/2002 FY01: \$306,719 Total: \$306,719
Prin. Invest.: E MERENYI
Tech. Officer: GSFC/P HUNTER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10816 **RICE UNIV** **8553**
 MULTIWAVELENGTH STUDY OF LMC X-1 (ADP 2000)
 04/24/2001 - 04/30/2002 FY01: \$50,000 Total: \$50,000
Prin. Invest.: E P LIANG
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 10841 **RICE UNIV** **8554**
 EMISSION FROM MAGNETIZED NEUTRON STARS (ATP 2000)
 05/03/2001 - 05/14/2002 FY01: \$31,005 Total: \$31,005
Prin. Invest.: M G BARING
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 8 1444 **RICE UNIV** **8555**
 A QUANTUM DEGENERATE FERMI GAS OF 6LI ATOMS
 02/11/1998 - 01/31/2001 FY01: -\$4 Total: \$206,996
Prin. Invest.: R G HULET
Tech. Officer: MSFC/D HUBBARD
CASE Category: 13 - PHYSICS

NAG 8 1467 **RICE UNIV** **8556**
 INFLUENCE OF REDUCED GRAVITY CONDITIONS ON THE OPTIMIZED
 GROWTH AND DEPOSITION OF METAL NANOSHELL
 03/06/1998 - 01/31/2002 FY01: \$61,750 Total: \$232,917
Prin. Invest.: N J HALAS
Tech. Officer: MSFC/C L TALLEY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1766 **RICE UNIV** **8557**
 SUPERFLUID PHASE TRANSITION IN AN ULTRACOLD PERMI GAS
 04/24/2001 - 04/30/2005 FY01: \$86,663 Total: \$86,663
Prin. Invest.: R G HULET
Tech. Officer: MSFC/D S HUBBARD
CASE Category: 13 - PHYSICS

NAG 9 978 **RICE UNIV** **8558**
 DEVELOPMENT OF PLASMA INJECTOR FOR VSIPR
 10/17/1997 - 09/30/2001 FY01: \$42,000 Total: \$170,412
Prin. Invest.: A A CHAN
Tech. Officer: JSC/F CHANG-DIAZ
CASE Category: 13 - PHYSICS

NAG 9 1049 **RICE UNIV** **8559**
 LASER ABSORPTION SENSORS
 08/04/1998 - 08/05/2001 FY01: \$119,956 Total: \$419,720
Prin. Invest.: F K TITTLE
Tech. Officer: JPL/D L JAN
CASE Category: 45 - ELECTRICAL ENGR

NAG 9 1059 **RICE UNIV** **8560**
 COMPUTATIONAL METHODS
 12/14/1998 - 12/31/2001 FY01: \$51,704 Total: \$138,187
Prin. Invest.: T E TEZDUYAR
Tech. Officer: JSC/F MARTIN
CASE Category: 49 - ENGINEERING, OTHER

NAG 9 1193 **RICE UNIV** **8561**
 TO PROVIDE ANALYTICAL MEASUREMENT SERVICES
 02/03/2000 - 08/30/2000 FY01: -\$6 Total: \$42,994
Prin. Invest.: F K TITTEL
Tech. Officer: JSC/J GRAF
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 9 1249 **RICE UNIV** **8562**
 APPLICATION OF MACHINE LEARNING TO THE CONTROL OF ADVANCED
 LIFE SUPPORT SYSTEMS
 07/19/2000 - 12/31/2001 FY01: \$0 Total: \$20,000
Prin. Invest.: D SUBRAMANIAN
Tech. Officer: JSC/C L FARMER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 9 1285 **RICE UNIV** **8563**
 MATRIX OF HYPERVELOCITY IMPACT TESTS
 03/02/2001 - 12/31/2001 FY01: \$40,000 Total: \$40,000
Prin. Invest.: E V BARRERA
Tech. Officer: JSC/J CREWS
CASE Category: 46 - MECHANICAL ENGR

NCC 2 1219 **RICE UNIV** **8564**
 INTEGRATED MODELING OF COGNITION AND THE INFORMATION ENVI-
 RONMENT
 03/16/2001 - 09/30/2001 FY01: \$95,591 Total: \$95,591
Prin. Invest.: M BYRNE, A KIRLIK
Tech. Officer: ARC/B L BEARD
CASE Category: 69 - PSYCHOLOGY, OTHER

NCC 2 1279	RICE UNIV	8565		NGT 9 23	RICE UNIV	8573	
TECHNOLOGY DEVELOPMENT OF MINIATURIZED FAR-INFRARED SOURCES FOR BIOMOLECULAR SPECTROSCOPY				UNDERSTANDING PROPERTIES OF NANOTUBE REINFORCED ..			
08/23/2001 - 10/14/2002	FY01: \$40,380	Total: \$40,380		05/30/1997 - 06/30/2001	FY01: \$0	Total: \$66,000	
<i>Prin. Invest.:</i> J KONO				<i>Prin. Invest.:</i> E V BARRERA			
<i>Tech. Officer:</i> ARC/B BIEGEL				<i>Tech. Officer:</i> JSC/B FILES			
<i>CASE Category:</i> 45 - ELECTRICAL ENGR				<i>CASE Category:</i> 49 - ENGINEERING, OTHER			
NCC 2 5458	RICE UNIV	8566		NAG 9 975	SAN ANTONIO COLLEGE	8574	
ELECTRONIC PROPERTIES OF ANTIMONIDE-BASE SEMICONDUCTOR NANOSTRUCTURES FOR THZ GENERATION				SPACE AND GEOSCIENCE PROJECT			
08/23/2001 - 08/31/2002	FY01: \$59,620	Total: \$59,620		09/25/1997 - 01/15/2000	FY01: -\$4,296	Total: \$386,071	
<i>Prin. Invest.:</i> J KONO				<i>Prin. Invest.:</i> C GONZALES			
<i>Tech. Officer:</i> ARC/T R GOVINDAN, ARC/B BIEGEL				<i>Tech. Officer:</i> JSC/L ARMENDARIZ			
<i>CASE Category:</i> 45 - ELECTRICAL ENGR				<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER			
NCC 5 311	RICE UNIV	8567		NAS 9 00106	SAN JACINTO COLLEGE	8575	
MUSEUMS TEACHING PLANET EARTH(UTPE)				COMPUTER TRAINING			
04/11/1998 - 02/28/2003	FY01: \$400,000	Total: \$1,753,000		09/29/2000 - 09/30/2001	FY01: \$208,729	Total: \$358,729	
<i>Prin. Invest.:</i> P REIFF				<i>Prin. Invest.:</i> N J ANTHA			
<i>Tech. Officer:</i> GSFC/A TUYAHOV				<i>Tech. Officer:</i> JSC/D DENTON-MISFELDT			
<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER				<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER			
NCC 9 77	RICE UNIV	8568		NCC 9 137	SAN JACINTO COLLEGE	8576	
ADVANCED NANOTECHNOLOGY MATERIALS AND APPLICATIONS				KC 135 STUDENT FLIGHT PROGRAM			
10/29/1998 - 10/30/2002	FY01: \$906,000	Total: \$2,306,000		09/21/2001 - 08/31/2004	FY01: \$96,328	Total: \$96,328	
<i>Prin. Invest.:</i> R C SMALLEY				<i>Prin. Invest.:</i> M DALTON			
<i>Tech. Officer:</i> JSC/G K HORIUCHI				<i>Tech. Officer:</i> JSC/D SICKOREZ			
<i>CASE Category:</i> 12 - CHEMISTRY				<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER			
NGT 1 52215	RICE UNIV	8569		NCC 9 141	SAN JACINTO COLLEGE	8577	
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)				PROVIDE AREOSPACE RELATED EXPERIENCE FOR NON TRADITIONAL COMMUNITY COLLEGE			
06/01/1999 - 08/31/2000	FY01: -\$369	Total: \$25,297		08/15/2001 - 08/31/2003	FY01: \$15,000	Total: \$15,000	
<i>Prin. Invest.:</i> S M KELLOGG, S S CULLIS				<i>Prin. Invest.:</i> N AVAILABLE			
<i>Tech. Officer:</i> LARC/P J HALEY, LARC/R JOSLIN				<i>Tech. Officer:</i> JSC/N AVAILABLE			
<i>CASE Category:</i> 41 - AERONAUTICAL ENGR				<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER			
NGT 2 52252	RICE UNIV	8570		NAG 5 4562	SOUTHERN METHODIST UNIV	8578	
MULTIWAVELENGTH STUDIES OF WOLF-RAYET GALAXIES				CORONAE AND CHASMA:IMPLICATIONS FOR TERRRESTRIAL			
09/30/1998 - 10/31/2001	FY01: \$0	Total: \$66,000		05/29/1997 - 11/30/2001	FY01: \$0	Total: \$249,866	
<i>Prin. Invest.:</i> D J DUFOUR				<i>Prin. Invest.:</i> D L HANSEN			
<i>Tech. Officer:</i> ARC/D J HOLLENBACH				<i>Tech. Officer:</i> GSFC/J GRANT			
<i>CASE Category:</i> 11 - ASTRONOMY				<i>CASE Category:</i> 32 - GEOLOGICAL SCIENCE			
NGT 8 52899	RICE UNIV	8571		NAG 5 4609	SOUTHERN METHODIST UNIV	8579	
THE BROADBAND ANALYSIS OF SPECTRAL AND TEMPORAL PROPERTIES OF GAMMA-RAY BURSTS				TETONIC EVOLUTION OF PLANET SURFACES			
05/25/2001 - 07/01/2004	FY01: \$22,000	Total: \$22,000		05/19/1997 - 05/14/2001	FY01: \$0	Total: \$64,435	
<i>Prin. Invest.:</i> E P LIANG				<i>Prin. Invest.:</i> D L HANSEN			
<i>Tech. Officer:</i> MSFC/S NASH-STEVENSON				<i>Tech. Officer:</i> GSFC/P ROGERS			
<i>CASE Category:</i> 11 - ASTRONOMY				<i>CASE Category:</i> 32 - GEOLOGICAL SCIENCE			
NGT 9 19	RICE UNIV	8572		NAG 5 9142	SOUTHERN METHODIST UNIV	8580	
NOVEL LASER BASED GAS SENSORS FOR TRAVE GAS DETECTION IN A SPACECRAFT HABITAT				TECTONIC EVOLUTION OF PLANET SURFACES			
08/23/1999 - 06/30/2002	FY01: \$22,000	Total: \$66,000		02/29/2000 - 04/14/2003	FY01: \$25,000	Total: \$48,750	
<i>Prin. Invest.:</i> F K TITTEL				<i>Prin. Invest.:</i> V L HANSEN			
<i>Tech. Officer:</i> JSC/J C GRAF				<i>Tech. Officer:</i> GSFC/D A SENSKE			
<i>CASE Category:</i> 54 - ENVIRONMENTAL BIOLOGY				<i>CASE Category:</i> 32 - GEOLOGICAL SCIENCE			

NAG 5 10586	SOUTHERN METHODIST UNIV	8581	NCC 9 54	SOUTHWEST TEXAS STATE UNIV	8589
TERRESTRIAL PLANET EVOLUTION			ORAL HISTORY RESEARCH PROJECT		
03/13/2001 – 05/14/2002	FY01: \$65,000	Total: \$65,000	03/01/1999 – 09/30/2001	FY01: \$10,904	Total: \$38,683
<i>Prin. Invest.:</i> V L HANSEN			<i>Prin. Invest.:</i> K MARGERISON		
<i>Tech. Officer:</i> GSFC/D SENSKE			<i>Tech. Officer:</i> JSC/W A LARSEN		
<i>CASE Category:</i> 11 – ASTRONOMY			<i>CASE Category:</i> 73 – HISTORY		
NAS 1 01104	SOUTHERN METHODIST UNIV	8582	NAG 1 01005	TEXAS A&M UNIV	8590
BROAD BAND PYROELECTRIC IR DETECTOR FOR FIRST (FAR-INFARED SPECTROSCOPY OF THE TROPOSPHERE)			UNSTEADY RANS COMPUTATIONS OF COMPLEX TURBULENT FLOWS: MODELING & IMPLEMENTATION		
09/07/2001 – 12/06/2001	FY01: \$50,000	Total: \$50,000	02/15/2001 – 12/31/2003	FY01: \$68,009	Total: \$68,009
<i>Prin. Invest.:</i> Z CELIK-BUTLER, D BUTLER			<i>Prin. Invest.:</i> S GIRIMAJI		
<i>Tech. Officer:</i> LARC/D G JOHNSON			<i>Tech. Officer:</i> LARC/B A SINGER		
<i>CASE Category:</i> 41 – AERONAUTICALENGNR			<i>CASE Category:</i> 41 – AERONAUTICAL ENGR		
NAS 1 99100	SOUTHERN METHODIST UNIV	8583	NAG 1 01015	TEXAS A&M UNIV	8591
UNCOOLED YTTRIUM BARIUM COPPER OXIDE THERMAL DETECTORS FOR ADVANCED BROAD BAND IR AND FIR			ACTIVE SKIN FOR TURBULENT DRAG REDUCTION		
09/27/1999 – 09/26/2000	FY01: \$0	Total: \$110,122	02/15/2001 – 02/28/2002	FY01: \$65,000	Total: \$65,000
<i>Prin. Invest.:</i> Z CELIK-BUTLER, D BUTLER			<i>Prin. Invest.:</i> O K REDINIOTIS, D C LAGODAS		
<i>Tech. Officer:</i> LARC/E KIST, JR.			<i>Tech. Officer:</i> LARC/M J WALSH		
<i>CASE Category:</i> 45 – ELECTRICAL ENGR			<i>CASE Category:</i> 41 – AERONAUTICAL ENGR		
NAG 9 1019	SOUTHWEST TEXAS JUNIOR COLLEGE	8584	NAG 1 01080	TEXAS A&M UNIV	8592
PRECOLLEGE AWARD FOR EXCELLENCE PACE/MSET			HIERARCHICAL STRATEGY FOR RAPID ANALYSIS ENVIRONMENT		
05/28/1998 – 08/31/2001	FY01: \$0	Total: \$298,420	05/11/2001 – 01/31/2004	FY01: \$60,000	Total: \$60,000
<i>Prin. Invest.:</i> A HERNANDEZ, JR.			<i>Prin. Invest.:</i> J D WHITCOMB		
<i>Tech. Officer:</i> JSC/L ARMENDARIZ			<i>Tech. Officer:</i> LARC/I S RAJU, LARC/J B RANSOM		
<i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER			<i>CASE Category:</i> 46 – MECHANICAL ENGR		
NAG 8 1367	SOUTHWEST TEXAS STATE UNIV	8585	NAG 2 1340	TEXAS A&M UNIV	8593
A NASA/UNIV JOINT VENTURE IN SPACE SCIENCE (JOVE). PROVIDES 1ST YEAR FUNDING			ADAPTATIONS OF VISCERAL & CEREBRAL RESISTANCE ARTE RIES TO SIMULATED MICROGRAVITY		
05/28/1997 – 08/31/2000	FY01: -\$106	Total: \$31,708	07/16/1999 – 07/14/2002	FY01: \$129,582	Total: \$368,261
<i>Prin. Invest.:</i> S F TARSITANO			<i>Prin. Invest.:</i> M D DELP		
<i>Tech. Officer:</i> MSFC/J F DOWDY, MSFC/J R PRUITT			<i>Tech. Officer:</i> ARC/M M AVERNER, ARC/R MACELROY		
<i>CASE Category:</i> 19 – PHYSICAL SCIENCE, OTHER			<i>CASE Category:</i> 51 – BIOLOGY (EXCLUDING ENVIR)		
NCC 1 324	SOUTHWEST TEXAS STATE UNIV	8586	NAG 3 2002	TEXAS A&M UNIV	8594
LOW DIELECTRIC POLYMERS			TURBINE BLADE TIP HEAT TRANSFER & FILM COOLING STUDY USING A TRANSIENT LIQUID CRYSTAL IMAGE METHOD		
12/08/1998 – 11/30/1999	FY01: -\$10,657	Total: \$59,215	01/21/1997 – 12/30/2000	FY01: -\$40	Total: \$233,656
<i>Prin. Invest.:</i> P E CASSIDY, M BLANDA			<i>Prin. Invest.:</i> J C HAN, S V EKKAD		
<i>Tech. Officer:</i> LARC/A K ST. CLAIR, LARC/D M STOKLEY			<i>Tech. Officer:</i> GRC/R J BOYLE		
<i>CASE Category:</i> 12 – CHEMISTRY			<i>CASE Category:</i> 41 – AERONAUTICAL ENGR		
NCC 1 376	SOUTHWEST TEXAS STATE UNIV	8587	NAG 3 2551	TEXAS A&M UNIV	8595
LOW DIELECTRIC POLYMERS			MULTI-BEAM PHASED ARRAY ANTENNAS MULTI-BEAM PHASED ARRAY ANTENNAS		
03/22/2000 – 08/31/2001	FY01: \$0	Total: \$50,000	02/28/2001 – 02/04/2002	FY01: \$100,000	Total: \$100,000
<i>Prin. Invest.:</i> P E CASSIDY, M T BLANDA			<i>Prin. Invest.:</i> D CHANG		
<i>Tech. Officer:</i> LARC/D M STOKLEY/C C FAY			<i>Tech. Officer:</i> GRC/R LEE		
<i>CASE Category:</i> 12 – CHEMISTRY			<i>CASE Category:</i> 45 – ELECTRICAL ENGR		
NCC 1 01033	SOUTHWEST TEXAS STATE UNIV	8588	NAG 3 2617	TEXAS A&M UNIV	8596
LOW DIELECTRIC POLYMERS			ADVANCED LITHIUM ION POLYMER BATTERIES FOR AEROSPACE APPLICATION		
05/10/2001 – 05/09/2002	FY01: \$50,000	Total: \$50,000	05/23/2001 – 05/31/2004	FY01: \$106,000	Total: \$106,000
<i>Prin. Invest.:</i> P E CASSIDY, S R VENUMBAKA			<i>Prin. Invest.:</i> D APPLEBY		
<i>Tech. Officer:</i> LARC/D M STOKLEY, LARC/C C FAY			<i>Tech. Officer:</i> GRC/R BALDWIN		
<i>CASE Category:</i> 12 – CHEMISTRY			<i>CASE Category:</i> 12 – CHEMISTRY		

NAG 4 212	TEXAS A&M UNIV	8597		NAG 5 8706	TEXAS A&M UNIV	8605	
A STUDY OF SYSTEM IDENTIFICATION APPROACHES FOR FL UTTER FLIGHT TESTS TEES #00-564				NOX PRODUCTION BY LIGHTNING AND ITS IMPACT ON THE CHEMISTRY OF THE UPPER TROPOSPHERE AND LOWER STRATO			
06/28/2000 - 05/31/2001	FY01: \$0	Total: \$35,000		07/19/1999 - 08/31/2002	FY01: \$87,449	Total: \$270,455	
<i>Prin. Invest.:</i> D STRGANAC				<i>Prin. Invest.:</i> R ZHANG			
<i>Tech. Officer:</i> DFRC/R LIND				<i>Tech. Officer:</i> GSFC/M Y WEI			
<i>CASE Category:</i> 41 - AERONAUTICAL ENGR				<i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER			
NAG 5 3754	TEXAS A&M UNIV	8598		NAG 5 9409	TEXAS A&M UNIV	8606	
SKELETAL MUSCLE ARTERIOLAR ADAPTATIONS TO STIMULAT				MODELING TROPICAL ATLANTIC VARIABILITY			
11/22/1996 - 05/14/2000	FY01: -\$239	Total: \$223,430		04/06/2000 - 06/30/2003	FY01: \$35,000	Total: \$70,000	
<i>Prin. Invest.:</i> M D DELP				<i>Prin. Invest.:</i> P CHANG			
<i>Tech. Officer:</i> GSFC/M A SHEPANEK				<i>Tech. Officer:</i> GSFC/K BERGMAN			
<i>CASE Category:</i> 59 - LIFE SCIENCE, OTHER				<i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER			
NAG 5 4746	TEXAS A&M UNIV	8599		NAG 5 9455	TEXAS A&M UNIV	8607	
MICROWAVE RADIOMETER AND MULTI-INSTRUMENT ALGORITHM				CONTINUED DEVELOPMENT OF SNOW AND SEA ICE ALBEDO ALGORITHMS FOR MODERATE RESOLUTION IMAGING			
06/26/1997 - 06/30/2001	FY01: -\$65	Total: \$350,335		04/12/2000 - 12/31/2000	FY01: \$0	Total: \$19,849	
<i>Prin. Invest.:</i> T T WILHEIT				<i>Prin. Invest.:</i> A KLEIN			
<i>Tech. Officer:</i> GSFC/O A THIELE				<i>Tech. Officer:</i> GSFC/D K HALL			
<i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE				<i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER			
NAG 5 4753	TEXAS A&M UNIV	8600		NAG 5 9485	TEXAS A&M UNIV	8608	
STATISTICAL SAMPLING AND ESTIMATION PROBLEMS USING				DEVELOPMENT OF A LONG-RANGE SCIENCE PLAN FOR SUB- GLACIAL LAKE EXPLORATION			
06/27/1997 - 06/30/2000	FY01: -\$47	Total: \$346,392		04/25/2000 - 04/30/2001	FY01: \$0	Total: \$27,335	
<i>Prin. Invest.:</i> G R NORTH				<i>Prin. Invest.:</i> M C KENNICUT			
<i>Tech. Officer:</i> GSFC/O W THEILE				<i>Tech. Officer:</i> GSFC/M MEYER			
<i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE				<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER			
NAG 5 4776	TEXAS A&M UNIV	8601		NAG 5 9649	TEXAS A&M UNIV	8609	
VALIDATION AND ESTIMATES OF TROPICAL RAIN AND DIAB				STATISTICAL SAMPLING AND ESTIMATION PROBLEMS USING TRMM DATA			
06/27/1997 - 06/30/2001	FY01: -\$36	Total: \$723,066		06/26/2000 - 11/30/2001	FY01: \$99,000	Total: \$139,180	
<i>Prin. Invest.:</i> M I BIGGERSTAFF				<i>Prin. Invest.:</i> G R NORTH			
<i>Tech. Officer:</i> GSFC/O W THIELE				<i>Tech. Officer:</i> GSFC/R J LAWRENCE			
<i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE				<i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE			
NAG 5 4796	TEXAS A&M UNIV	8602		NAG 5 9697	TEXAS A&M UNIV	8610	
VALIDATION AND TRANSFERABILITY OF TROPICAL RAIN				VALIDATION OF TRMM RAINFALL AND HEATING ESTIMATES			
08/22/1997 - 09/30/2000	FY01: -\$35	Total: \$391,094		07/26/2000 - 11/30/2001	FY01: \$190,000	Total: \$200,000	
<i>Prin. Invest.:</i> G J NORTH				<i>Prin. Invest.:</i> M I BIGGERSTAFF			
<i>Tech. Officer:</i> GSFC/O THIELE				<i>Tech. Officer:</i> GSFC/R J LAWRENCE			
<i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE				<i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE			
NAG 5 6446	TEXAS A&M UNIV	8603		NAG 5 9729	TEXAS A&M UNIV	8611	
WORLD OCEAN CIRCULATION EXPERIMENT: SUPPORT FOR THE U.S. WOCE OFFICE				PHYSICAL VALIDATION OF TMI OCEANIC RAINFALL RETRIEVALS			
11/25/1997 - 12/31/2001	FY01: \$0	Total: \$375,000		06/22/2000 - 11/30/2001	FY01: \$113,000	Total: \$163,600	
<i>Prin. Invest.:</i> W D NOWLIN				<i>Prin. Invest.:</i> T WILHEIT			
<i>Tech. Officer:</i> GSFC/J CAMPBELL				<i>Tech. Officer:</i> GSFC/R LAWRENCE			
<i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER				<i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE			
NAG 5 7751	TEXAS A&M UNIV	8604		NAG 5 10549	TEXAS A&M UNIV	8612	
DOES SOUTHERN OCEAN SEA ICE AFFECT INTERANNUAL OCEAN VARIABILITY				AIRCRAFT-BASED MEASUREMENT OF AEROSOL OPTICAL PROPERTIES			
11/19/1998 - 12/31/2001	FY01: \$59,424	Total: \$178,940		03/09/2001 - 03/14/2002	FY01: \$111,414	Total: \$111,414	
<i>Prin. Invest.:</i> A STOESEL				<i>Prin. Invest.:</i> D COLLINS			
<i>Tech. Officer:</i> GSFC/S GOGINENI				<i>Tech. Officer:</i> GSFC/M WEI			
<i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER				<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER			

NAG 5 10641 **TEXAS A&M UNIV** **8613**
 ASSIMILATING SATELLITE-DERIVED SEA-ICE CONCENTRATION IN A
 GLOBAL COUPLEDSEA-ICE-OCEAN GCM
 03/17/2001 - 03/14/2002 FY01: \$65,640 Total: \$65,640
Prin. Invest.: S STOESSEL
Tech. Officer: GSFC/W ABDALATI
CASE Category: 33 - OCEANOGRAPHY

NAG 5 10829 **TEXAS A&M UNIV** **8614**
 SUPPORT FOR U.S. WOCE OFFICE AND U.S. GOOS OFFICE
 04/25/2001 - 04/30/2002 FY01: \$75,000 Total: \$75,000
Prin. Invest.: W NOWLIN
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 33 - OCEANOGRAPHY

NAG 5 10877 **TEXAS A&M UNIV** **8615**
 CONTINUED DEVELOPMENT OF SNOW AND SEA ICE ALBEDO ALGORITHMS
 FOR THE MODERATE RESOLUTION IMAGING
 05/16/2001 - 08/31/2001 FY01: \$15,000 Total: \$15,000
Prin. Invest.: A KLEIN
Tech. Officer: GSFC/D K HALL
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 11013 **TEXAS A&M UNIV** **8616**
 IMPROVEMENT OF RAIN ESTIMATION IN TROPICAL CYCLONE
 07/10/2001 - 06/14/2002 FY01: \$228,000 Total: \$228,000
Prin. Invest.: M BOGGERSTAFF
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 11144 **TEXAS A&M UNIV** **8617**
 EFFECTS OF URBANIZATION ON ECOLOGICAL SERVICES IN A SEMI-ARID
 REGION OF THE UNITED STATES
 07/25/2001 - 08/14/2002 FY01: \$94,341 Total: \$94,341
Prin. Invest.: R LACEY
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 8 1395 **TEXAS A&M UNIV** **8618**
 R/S "BULK FLOW ANALYSIS OF HYBRID THRUST BEARINGS FOR
 ADVANCED CRYOGENIC TURBOPUMPS"
 07/21/1997 - 12/31/2000 FY01: -\$44 Total: \$73,420
Prin. Invest.: L SAN ANDREAS
Tech. Officer: MSFC/R L THOM, MSFC/T JETT
CASE Category: 41 - AERONAUTICAL ENGR

NAG 8 1491 **TEXAS A&M UNIV** **8619**
 INTENSITY AND ORGANIZATION OF CONVECTION IN HURRICANES AND
 TROPICAL CYCLONES BEFORE AND AFTER
 01/30/1998 - 01/31/2001 FY01: -\$45,141 Total: \$108,815
Prin. Invest.: E J ZIPSER
Tech. Officer: MSFC/J ARNOLD, MSFC/R K KAKAR
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 8 1618 **TEXAS A&M UNIV** **8620**
 R&D OF HIGH GAIN, HIGH EFFICIENCY, CIRCULAR POLARIZED
 RECTENNAS
 07/06/1999 - 01/31/2001 FY01: \$0 Total: \$350,000
Prin. Invest.: K CHANG
Tech. Officer: MSFC/J HOWELL
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1802 **TEXAS A&M UNIV** **8621**
 THERMOPHYSICAL ESEM & TEM CHARACTERIZATION OF CARBON FIBERS"
 CTE, SPECTROSCOPY & ROUGHNESS STUDY
 04/20/2001 - 04/19/2002 FY01: \$64,304 Total: \$64,304
Prin. Invest.: O O OCHOA
Tech. Officer: MSFC/M R EFFINGER, MSFC/P VALENTINE
CASE Category: 47 - METAL & MATERIALSENGR

NAG 9 1067 **TEXAS A&M UNIV** **8622**
 PLANT GROWTH AND METABOLISM AT SUB-AMBIENT ATMOSPHERE PRES-
 SURES
 01/06/1999 - 12/31/2001 FY01: \$118,284 Total: \$465,446
Prin. Invest.: M C DREW
Tech. Officer: JSC/D BARTA
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 9 1070 **TEXAS A&M UNIV** **8623**
 NONINTRUSIVE METHOD FOR STIRRED SEPARATOR INVENTORY SENSING
 01/22/1999 - 12/31/2000 FY01: -\$62 Total: \$55,677
Prin. Invest.: R WILLIAMS, F BEST, I CARSON
Tech. Officer: JSC/S D GLEN
CASE Category: 13 - PHYSICS

NAG 9 1086 **TEXAS A&M UNIV** **8624**
 LOW THRUST VARIABLE ISP ROCKET TRAJECTORY OPTIMIZATION AND
 ANALYSIS STUDY
 02/08/1999 - 09/30/2000 FY01: -\$1,870 Total: \$28,130
Prin. Invest.: S R VACLALIC
Tech. Officer: JSC/E M BRADEN
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 9 1119 **TEXAS A&M UNIV** **8625**
 STABILITY OF RETORT PROCESSED MILK PRODUCTS
 07/01/1999 - 06/30/2001 FY01: \$0 Total: \$60,000
Prin. Invest.: R L RICHTER
Tech. Officer: JSC/C T BOURLAND
CASE Category: 55 - AGRICULTURE

NAG 9 1145 **TEXAS A&M UNIV** **8626**
 SEPARATION OF LIQUID PHASE FR GAS PHASE
 09/09/1999 - 01/31/2002 FY01: \$0 Total: \$150,000
Prin. Invest.: J SEYED-YAGOOBI, F R BEST
Tech. Officer: JSC/E K UNGAR
CASE Category: 46 - MECHANICAL ENGR

NAG 9 1188 **TEXAS A&M UNIV** **8627**
 NAVIGATION SYSTEMS & TECHNOLOGY LAB (NSR) ATTITUDE DETERMINA-
 TION
 01/28/2000 - 12/31/2002 FY01: \$0 Total: \$159,345
Prin. Invest.: J L CRASSIDIS
Tech. Officer: JSC/J W BELL
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 9 1231 **TEXAS A&M UNIV** **8628**
 SYNTHESIS AND EVALUATION OF ROBUST DYNAMIC INVERSION
 05/22/2000 - 09/30/2001 FY01: \$0 Total: \$97,320
Prin. Invest.: J L VALASEK
Tech. Officer: JSC/S R MONDAY
CASE Category: 41 - AERONAUTICAL ENGR

NAG 9 1239	TEXAS A&M UNIV	8629	NAS 9 99096	TEXAS A&M UNIV	8637
VARIABLE ISP ROCKET TRAJECTORY OPTIMIZATION			PROPORTIONAL COUNTERS FOR NEUTRON MEASUREMENTS		
06/30/2000 – 12/31/2001	FY01: \$30,000	Total: \$60,000	08/17/1999 – 06/29/2001	FY01: \$0	Total: \$117,096
<i>Prin. Invest.:</i> S R VADALI			<i>Prin. Invest.:</i> L A BRABY		
<i>Tech. Officer:</i> JSC/E M BRADEN			<i>Tech. Officer:</i> JSC/G D BADHWAR		
<i>CASE Category:</i> 42 – ASTRONAUTICAL ENGR			<i>CASE Category:</i> 41 – AERONAUTICAL ENGR		
NAG 9 1268	TEXAS A&M UNIV	8630	NCC 1 386	TEXAS A&M UNIV	8638
FLIGHT TESTS OF AN UNMANNED POWERED PARACHUTE			MICRO SPACECRAFT ATTITUDE SENSOR SYSTEM (MSAS) NASA HQS		
01/11/2001 – 12/31/2001	FY01: \$219,534	Total: \$219,534	CETDP COMPETITION		
<i>Prin. Invest.:</i> D T WARD, J L CRASSIDS, D W LUND			03/13/2000 – 01/31/2003	FY01: \$160,000	Total: \$360,000
<i>Tech. Officer:</i> JSC/A STRAHAN, JSC/C J CERIMELE			<i>Prin. Invest.:</i> J L JUNKINS		
<i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER			<i>Tech. Officer:</i> LARC/L G HORTA		
			<i>CASE Category:</i> 42 – ASTRONAUTICAL ENGR		
NAG 9 1277	TEXAS A&M UNIV	8631	NCC 2 1166	TEXAS A&M UNIV	8639
MICROFABRICATED OPTICAL BIOSENSOR ARRAYS FOR AIR QUALITY			ARTERIAL REMODELING AND FUNCTIONAL ADAPTATIONS INDUCED BY		
MONITORING			MICROGRAVITY		
01/24/2001 – 09/30/2003	FY01: \$0	Total: \$0	03/22/2000 – 03/14/2002	FY01: \$316,193	Total: \$706,193
<i>Prin. Invest.:</i> M V PISHKO			<i>Prin. Invest.:</i> M D DELP		
<i>Tech. Officer:</i> JSC/D RUSSO			<i>Tech. Officer:</i> ARC/M F VASQUES		
<i>CASE Category:</i> 54 – ENVIRONMENTAL BIOLOGY			<i>CASE Category:</i> 51 – BIOLOGY (EXCLUDING ENVIR)		
NAG 9 1328	TEXAS A&M UNIV	8632	NCC 3 516	TEXAS A&M UNIV	8640
IMMWPS SEPARATOR KC-135 FLIGHT DIAGNOSTIC TESTING			THE CENTER FOR SPACE POWER		
06/18/2001 – 08/01/2002	FY01: \$50,000	Total: \$50,000	11/26/1996 – 11/03/2001	FY01: \$1,015,500	Total: \$3,727,501
<i>Prin. Invest.:</i> F R BEST			<i>Prin. Invest.:</i> F R BEST		
<i>Tech. Officer:</i> JSC/K HURLBERT			<i>Tech. Officer:</i> GRC/J E CALOGERAS, GRC/R L SOVIE		
<i>CASE Category:</i> 46 – MECHANICAL ENGR			<i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER		
NAG10 304	TEXAS A&M UNIV	8633	NCC 3 602	TEXAS A&M UNIV	8641
SCOPING DESIGN FOR ZERO GRAVITY ULLAGE TESTING SCOPING DESIGN			THERMAL CONTROL AND ENHANCEMENT OF HEAT TRANSPORT CAPACITY		
FOR ZERO GRAVITY ULLAGE TESTING			OF CRYOGENICS CAPILLARY PUMPED LOOPS AND		
08/08/2001 – 09/30/2001	FY01: \$22,500	Total: \$22,500	03/20/1998 – 01/28/2002	FY01: \$51,276	Total: \$257,963
<i>Prin. Invest.:</i> F R BEST			<i>Prin. Invest.:</i> J SEYED-YAGOUBI, J M OCHTERBECK, J 3 BYRAN		
<i>Tech. Officer:</i> KSC/T R REINARTS			<i>Tech. Officer:</i> GRC/F P CHIARAMONTE		
<i>CASE Category:</i> 46 – MECHANICAL ENGR			<i>CASE Category:</i> 46 – MECHANICAL ENGR		
NAS 5 32593	TEXAS A&M UNIV	8634	NCC 3 762	TEXAS A&M UNIV	8642
STUDY ENTITLED MIMR SCIENCE TEAM MEMBERSHIP			SMART STRUCTURAL COMPONENTS FOR INCREASED FLIGHT S PEED,		
12/15/1993 – 12/30/2001	FY01: \$245,000	Total: \$1,277,013	SAFETY & CAPACITY USING MAGNETIC BEARINGS A		
<i>Prin. Invest.:</i> T T WILHEIT			01/18/2000 – 12/02/2001	FY01: \$105,641	Total: \$213,464
<i>Tech. Officer:</i> GSFC/P HWONG			<i>Prin. Invest.:</i> B D PALAZZOLO		
<i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE			<i>Tech. Officer:</i> GRC/G T MONTAGUE		
			<i>CASE Category:</i> 41 – AERONAUTICAL ENGR		
NAS 9 00100	TEXAS A&M UNIV	8635	NCC 3 793	TEXAS A&M UNIV	8643
OPERATION & MANAGEMENT OF RTTC			EXPERIMENTAL STUDY OF THE EFFECTS OF WAKES ON SEPA RATION IN		
12/22/2000 – 12/21/2001	FY01: \$900,000	Total: \$900,000	LOW PRESSURE TURBINE FLOW		
<i>Prin. Invest.:</i> G SERA, B CORNWELL, B NAUKE			04/20/2000 – 05/31/2002	FY01: \$45,000	Total: \$131,735
<i>Tech. Officer:</i> GRC/K W LASSMAN			<i>Prin. Invest.:</i> I SCHOBEIRI		
<i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER			<i>Tech. Officer:</i> GRC/D ASHPIS		
			<i>CASE Category:</i> 41 – AERONAUTICAL ENGR		
NAS 9 97002	TEXAS A&M UNIV	8636	NCC 3 836	TEXAS A&M UNIV	8644
TEXAS A & M LOW-SPEED WIND TUNNEL (LSWT) TESTING			LOW POWER LOSS, FAIL SAFE MAGNETIC SUSPENSIONS FOR ENERGY		
04/02/1997 – 04/02/2001	FY01: \$15,225	Total: \$204,145	STORAGE AND ATTITUDE CONTROL FLYWHEELS		
<i>Prin. Invest.:</i> J L MARTINEZ			01/04/2001 – 01/01/2004	FY01: \$337,470	Total: \$337,470
<i>Tech. Officer:</i> JSC/S G LABBE, JSC/C J CERIMELE			<i>Prin. Invest.:</i> D PALAZZOLO		
<i>CASE Category:</i> 41 – AERONAUTICAL ENGR			<i>Tech. Officer:</i> GRC/K P MCLALLIN		
			<i>CASE Category:</i> 46 – MECHANICAL ENGR		

NCC 4 152 **TEXAS A&M UNIV** **8645**
 CONTINUOUS COMMISSIONING PROPOSAL CONTINUOUS COMMISSIONING
 PROPOSAL
 06/18/2001 - 05/31/2002 FY01: \$70,000 Total: \$70,000
Prin. Invest.: W TURNER
Tech. Officer: DFRC/J TORRES
CASE Category: 49 - ENGINEERING, OTHER

NCC 5 359 **TEXAS A&M UNIV** **8646**
 MISSION GEOGRAPHY
 08/24/1998 - 01/31/2002 FY01: \$0 Total: \$900,542
Prin. Invest.: S BEDNARZ
Tech. Officer: HQ/P MOUNTJPOY
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 448 **TEXAS A&M UNIV** **8647**
 VISION-BASED NAVIGATION FOR SPACECRAFT FORMATION FLYING
 12/21/1999 - 12/31/2001 FY01: \$64,970 Total: \$353,730
Prin. Invest.: D L JUNKINS
Tech. Officer: GSFC/L MARKLEY
CASE Category: 41 - AERONAUTICAL ENGR

NCC 5 456 **TEXAS A&M UNIV** **8648**
 UNSOLICITED PROPOSAL FOR A COOPERATIVE AGREEMENT BETWEEN
 THE TEXAS ENGINEERING EXPERIMENT STATION
 03/03/2000 - 02/28/2002 FY01: \$0 Total: \$1,045,000
Prin. Invest.: F R BEST
Tech. Officer: GSFC/J LANDERS
CASE Category: 11 - ASTRONOMY

NCC 5 517 **TEXAS A&M UNIV** **8649**
 BUILDING AN INTERDISCIPLINARY RESEARCH INFRASTRUCTURE IN
 APPLIED COMPUTER SCIENCE, GEOGRAPHIC INFOR
 09/25/2000 - 09/30/2001 FY01: \$386,604 Total: \$486,604
Prin. Invest.: C STEIDLEY
Tech. Officer: GSFC/C PERSON
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 8 169 **TEXAS A&M UNIV** **8650**
 R/S INVESTIGATION OF NEURONAL PHYSIOLOGY IN SIMULATED
 MICROGRAVITY USING SMART FLUORESCENT ...
 03/12/1999 - 11/30/2002 FY01: \$133,000 Total: \$371,000
Prin. Invest.: G COTE
Tech. Officer: JSC/M ANDERSON
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NCC 8 226 **TEXAS A&M UNIV** **8651**
 PROMOTE COMMERCIALY FUNDED ENGINEERING RESEARCH &
 TECHNOLOGY DEVELOPMENT ON THE INT'L SPACE STATION
 05/01/2001 - 10/31/2001 FY01: \$716,000 Total: \$716,000
Prin. Invest.: D BOYLE
Tech. Officer: MSFC/S LAMBING
CASE Category: 49 - ENGINEERING, OTHER

NCC 9 69 **TEXAS A&M UNIV** **8652**
 NASA COMMERCIAL SPACE TO ADBOCATE & SUPPORT COMMERCIAL
 ENGINEERING ON ISS
 05/07/1998 - 05/06/2001 FY01: \$200,000 Total: \$2,132,789
Prin. Invest.: D R BOYLE, M SCHULLER, F R BEST
Tech. Officer: JSC/C G PARRA, JSC/R C HAHL
CASE Category: 49 - ENGINEERING, OTHER

NGT 5 30211 **TEXAS A&M UNIV** **8653**
 HYDROLOGIC CONSEQUENCES OF SHRUB SAVANNA EXPANSION
 STUDENT: WYLIE N. HARRIS
 08/20/1999 - 08/31/2001 FY01: \$0 Total: \$22,000
Prin. Invest.: T BOUTTON
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30408 **TEXAS A&M UNIV** **8654**
 EVALUATION OF SHRUB ENCROACHMENT ON WATER AVAILABILITY IN
 SEMI-ARIDRANGELAND OF THE SOUTHWEST
 08/15/2001 - 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: C MUNSTER
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30417 **TEXAS A&M UNIV** **8655**
 UNDERSTANDING AND ASSESSING POTENTIAL PREDICTABILITY OF THE
 SACZ & SPCZ USING NASA/NSIPP ANDNCAR/C
 09/06/2001 - 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: P CHANG
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 9 34 **TEXAS A&M UNIV** **8656**
 KINETICS OF NITRIFICATION BY ISO TOPE DILUTION IN GROWTH OF
 WHEAT USING ZEOPONICS
 06/04/1998 - 07/01/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: R W WEAVER
Tech. Officer: JSC/D G SICKOREZ
CASE Category: 55 - AGRICULTURE

NGT 9 39 **TEXAS A&M UNIV** **8657**
 1999 SUMMER FACULTY FELLOWSHIP PROGRAM
 04/21/1999 - 12/31/2000 FY01: \$0 Total: \$385,000
Prin. Invest.: W A HYMAN, R BANNEROT
Tech. Officer: JSC/D SICKOREZ
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 9 54 **TEXAS A&M UNIV** **8658**
 2001 SUMMER FACULTY FELLOWSHIP PROGRAM
 06/29/2001 - 12/31/2002 FY01: \$359,417 Total: \$359,417
Prin. Invest.: W A HYMAN
Tech. Officer: JSC/D SICKOREZ
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9196 **TEXAS A&M UNIV-CORPUS CHRISTI** **8659**
 THE TRANSLINGUAL EARTH SYSTEM SCIENCE EDUCATION CENTER
 03/10/2000 - 09/14/2001 FY01: \$0 Total: \$154,580
Prin. Invest.: G BLOUNT
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 7159 **TEXAS A&M UNIV-KINGSVILLE** **8660**
 SIMULATION SUPPORT FOR THE DEVELOPMENT OF GLAST
 03/16/1998 - 08/31/2001 FY01: \$0 Total: \$104,000
Prin. Invest.: D SUSON
Tech. Officer: GSFC/D THOMPSON
CASE Category: 13 - PHYSICS

NAG 8 1650	TEXAS A&M UNIV-KINGSVILLE	8661	NAG 9 1194	TEXAS SOUTHERN UNIV	8669
EXPANDABLE SOFTWARE REUSE LIBRARY			MOLD DEVELOPMENT IN HYDROPONICS		
01/20/2000 – 01/19/2002	FY01: \$0	Total: \$29,291	04/25/2000 – 04/24/2003	FY01: \$72,000	Total: \$132,000
<i>Prin. Invest.:</i> B SCHREUR			<i>Prin. Invest.:</i> O A JEJELOWO		
<i>Tech. Officer:</i> MSFC/W LOVE			<i>Tech. Officer:</i> JSC/L ARMENDARIZ		
<i>CASE Category:</i> 22 – COMPUTER SCIENCE			<i>CASE Category:</i> 55 – AGRICULTURE		
NAG 9 1093	TEXAS A&M UNIV-KINGSVILLE	8662	NAG 9 1227	TEXAS SOUTHERN UNIV	8670
DESIGN OF LOW BIT RATE SIGNAL COMPRESSOR FOR EFFICIENT RECORDING			SILICON UPTAKE IN HYDROPONICS BY GRAMINACEOUS CROP PLANTS		
04/26/1999 – 04/30/2002	FY01: \$84,669	Total: \$263,313	06/22/2000 – 06/30/2003	FY01: \$50,000	Total: \$112,000
<i>Prin. Invest.:</i> S W PARK			<i>Prin. Invest.:</i> G A JEJEDOWO		
<i>Tech. Officer:</i> JSC/K L HAMES			<i>Tech. Officer:</i> JSC/L ARMENDARIZ		
<i>CASE Category:</i> 45 – ELECTRICAL ENGR			<i>CASE Category:</i> 55 – AGRICULTURE		
NAG 5 7040	TEXAS CHRISTIAN UNIV	8663	NCC 9 80	TEXAS SOUTHERN UNIV	8671
CRITICAL TESTS OF STELLAR EVOLUTION_(LTSA)			HIGH PRESSURE LABORATORY		
03/02/1998 – 02/28/2002	FY01: \$8,900	Total: \$33,800	12/02/1998 – 05/31/2004	FY01: \$300,000	Total: \$899,675
<i>Prin. Invest.:</i> P MARCUM			<i>Prin. Invest.:</i> B L WILSON		
<i>Tech. Officer:</i> GSFC/D K WEST			<i>Tech. Officer:</i> JSC/C B AGEE		
<i>CASE Category:</i> 11 – ASTRONOMY			<i>CASE Category:</i> 12 – CHEMISTRY		
NAG 8 1356	TEXAS CHRISTIAN UNIV	8664	NAG 1 2192	TEXAS TECH UNIV	8672
EXPERIMENTAL ASSESSMENT OF MULTICOMPONENT EFFECTS IN DIFFUSION-DOMINATED TRANSPORT PROTEIN CRYSTAL			THE HEAVY OZONE PROBLEM NRA-98-OES-04		
05/23/1997 – 05/31/2001	FY01: \$29,362	Total: \$298,362	09/28/1999 – 12/31/2002	FY01: \$51,106	Total: \$101,235
<i>Prin. Invest.:</i> J G ALBRIGHT			<i>Prin. Invest.:</i> G I GELLENE		
<i>Tech. Officer:</i> MSFC/B L GUYNES, MSFC/J MAYO			<i>Tech. Officer:</i> LARC/G L MADDREA, LARC/L R POOLE		
<i>CASE Category:</i> 51 – BIOLOGY (EXCLUDING ENVIR)			<i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE		
NAG 5 8934	TEXAS COLLEGE	8665	NAG 3 2005	TEXAS TECH UNIV	8673
TEXAS COLLEGE CENTER FOR EXCELLENCE IN MATHEMATICS SCIENCE & TECHNOLOGY & A TECHNOLOGY PLACE FOR KID			ARCJET ELECTRODE DEGRADATION RESEARCH		
01/19/2000 – 01/14/2001	FY01: \$0	Total: \$915,000	01/24/1997 – 08/31/2001	FY01: \$0	Total: \$690,930
<i>Prin. Invest.:</i> T NAMBOODIRI			<i>Prin. Invest.:</i> E A O'HAIR, M KRISTIANSEN, J C DICKENS		
<i>Tech. Officer:</i> GSFC/C PERSON			<i>Tech. Officer:</i> GRC/L R PINERO		
<i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER			<i>CASE Category:</i> 45 – ELECTRICAL ENGR		
NAG 5 11002	TEXAS COLLEGE	8666	NAG 5 5156	TEXAS TECH UNIV	8674
TEXAS COLLEGE CENTER FOR EXCELLENCE IN MATHEMATICS SCIENCE & TECHNOLOGY & A TECHNOLOGY PLACE FOR KID			OPTIMIZATION STUDIES FOR ACCESS CALORIMETRY INCREMENTAL FUNDING FOR FIRST YEAR OF GRANT		
06/01/2001 – 05/31/2002	FY01: \$998,000	Total: \$998,000	03/26/1998 – 05/31/2001	FY01: \$0	Total: \$251,762
<i>Prin. Invest.:</i> M NAMBOODIRI			<i>Prin. Invest.:</i> R WIGMANS		
<i>Tech. Officer:</i> GSFC/C PERSON			<i>Tech. Officer:</i> GSFC/B A MERRITT		
<i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER			<i>CASE Category:</i> 13 – PHYSICS		
NAG 2 1447	TEXAS SOUTHERN UNIV	8667	NAG 5 9505	TEXAS TECH UNIV	8675
DEVELOPMENT OF NATURAL LANGUAGE UNDERSTANDING GRAM MARS FOR INTELLIGENT MONITORING			DEVELOPMENT OF A PARALLEL VERSION OF SEQUENCEL WITH EXPERIMENTS ON & APPLICATION TO NEURAL NETWORK		
09/29/2000 – 09/14/2001	FY01: \$14,998	Total: \$99,998	04/26/2000 – 08/31/2001	FY01: \$0	Total: \$90,000
<i>Prin. Invest.:</i> O H CRINER			<i>Prin. Invest.:</i> D COOKE		
<i>Tech. Officer:</i> ARC/Y O GAWDIAK, ARC/B J COLLINS			<i>Tech. Officer:</i> GSFC/J BREDEKAMP		
<i>CASE Category:</i> 22 – COMPUTER SCIENCE			<i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER		
NAG 9 1132	TEXAS SOUTHERN UNIV	8668	NCC 2 5257	TEXAS TECH UNIV	8676
FIELD TESTING			INFORMATION INTEGRATION IN JUDGEMENTS OF TEMPORAL RANGE		
07/16/1999 – 07/31/2001	FY01: \$0	Total: \$43,000	03/02/1998 – 06/30/2000	FY01: \$0	Total: \$74,992
<i>Prin. Invest.:</i> D C DAVIS			<i>Prin. Invest.:</i> P R DELUCIA		
<i>Tech. Officer:</i> JSC/M K EWERT			<i>Tech. Officer:</i> ARC/M K KAISER		
<i>CASE Category:</i> 46 – MECHANICAL ENGR			<i>CASE Category:</i> 69 – PSYCHOLOGY, OTHER		

NCC 9 108	TEXAS TECH UNIV	8677			
PLANT RESEARCH IN EDU & WATER REUSE/RECYCLING					
07/07/2000 – 09/30/2001	FY01: \$0		Total: \$915,000		
<i>Prin. Invest.:</i> J L SMITH, L V URBAN, E B PEFFLEY					
<i>Tech. Officer:</i> JSC/D L HENNINGER, JSC/K R DAUES					
<i>CASE Category:</i> 59 – LIFE SCIENCE, OTHER					
NCC 9 143	TEXAS TECH UNIV	8678			
PLANT RESEARCH IN EDU, WATER REUSE/RECYCLING					
09/28/2001 – 09/30/2002	FY01: \$1,497,000		Total: \$1,497,000		
<i>Prin. Invest.:</i> J L SMITH					
<i>Tech. Officer:</i> JSC/D L HENNINGER					
<i>CASE Category:</i> 49 – ENGINEERING, OTHER					
NAG 9 1192	TEXAS WOMAN'S UNIV	8679			
VALIDATION OF A DETAILED MECHANISM FOR HYDRAZINE DECOMPOSITION					
01/21/2000 – 07/06/2000	FY01: \$0		Total: \$15,499		
<i>Prin. Invest.:</i> N E MEAGHER					
<i>Tech. Officer:</i> JSC/R SAULSBERRY					
<i>CASE Category:</i> 61 – PSYCHOLOGY BIOLOGY					
NAG 9 1278	TRINITY UNIV	8680			
KALMAN FILTER BASED SENSOR FUSION FOR ESTIMATION OF MOBILE ROBOT LOCATION AND ORIENTATION					
01/12/2001 – 12/31/2001	FY01: \$15,400		Total: \$15,400		
<i>Prin. Invest.:</i> K NICKELS					
<i>Tech. Officer:</i> JSC/K BAKER					
<i>CASE Category:</i> 49 – ENGINEERING, OTHER					
NAG 2 1284	UNIV HOUSTON-HOUSTON	8681			
A NON-INVASIVE ANALYSIS OF MUSCULOSKETAL COLLAGEN METABOLISM FROM URINE OF RHESUS MONKEYS DURING A					
01/26/1999 – 11/30/1999	FY01: \$0		Total: \$25,000		
<i>Prin. Invest.:</i> A C VAILAS					
<i>Tech. Officer:</i> ARC/R E GRINDELAND, ARC/K L SOUZA					
<i>CASE Category:</i> 51 – BIOLOGY (EXCLUDING ENVIR)					
NAG 3 1840	UNIV HOUSTON-HOUSTON	8682			
TWO-PHASE GAS-LIQUID FLOWS IN MICROGRAVITY: EXPERIMENTAL AND THEORETICAL INVESTIGATION OF ANNULAR					
05/02/1996 – 05/01/2001	FY01: \$0		Total: \$320,000		
<i>Prin. Invest.:</i> V BALAKOTAIAH, S JAYAWARDENA					
<i>Tech. Officer:</i> GRC/B S MOTIL					
<i>CASE Category:</i> 46 – MECHANICAL ENGR					
NAG 5 4765	UNIV HOUSTON-HOUSTON	8683			
LL CHODRITES					
06/06/1997 – 05/31/2001	FY01: \$0		Total: \$71,674		
<i>Prin. Invest.:</i> D M REID					
<i>Tech. Officer:</i> GSFC/D NAVATEch. Officer: NONE					
<i>CASE Category:</i> 11 – ASTRONOMY					
NAG 5 7840	UNIV HOUSTON-HOUSTON	8684			
WINDS, WATER BUDGETS, AND STABLE ISOTOPES IN TROPICAL CYCLONES USING TRMM AND QUICKSCAT					
01/06/1999 – 12/31/2001	FY01: \$44,054		Total: \$148,877		
<i>Prin. Invest.:</i> J R LAWRENCE					
<i>Tech. Officer:</i> GSFC/R W LAWRENCE					
<i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE					
NAG 5 8126	UNIV HOUSTON-HOUSTON	8685			
SUPERCONDUCTING COATING ON SAPPHIRE MEMBRANE--GOAL IS TO ATTEMPT IMPROVED STABILITY OF COATING					
02/04/1999 – 01/31/2000	FY01: \$0		Total: \$3,600		
<i>Prin. Invest.:</i> C (PAUL CHU)					
<i>Tech. Officer:</i> GSFC/J C BRASUNAS					
<i>CASE Category:</i> 47 – METAL & MATERIALS ENGR					
NAG 5 8140	UNIV HOUSTON-HOUSTON	8686			
THE ORIGINS OF TRANSLATION					
02/03/1999 – 01/31/2002	FY01: \$80,000		Total: \$235,360		
<i>Prin. Invest.:</i> D FOX					
<i>Tech. Officer:</i> GSFC/M MEYER					
<i>CASE Category:</i> 11 – ASTRONOMY					
NAG 5 10714	UNIV HOUSTON-HOUSTON	8687			
ADVANCED ADIABATIC DEMAGNETIZATION REFRIGERATORS FOR CONTINUOUS COOLING FROM 10K TO 50MK					
04/12/2001 – 05/31/2002	FY01: \$15,000		Total: \$15,000		
<i>Prin. Invest.:</i> P W CHU					
<i>Tech. Officer:</i> GSFC/P J SHIRRON					
<i>CASE Category:</i> 19 – PHYSICAL SCIENCE, OTHER					
NAG 8 1363	UNIV HOUSTON-HOUSTON	8688			
"EPITAXIAL GROWTH OF PROTEIN CRYSTALS ON SELF-ASSEMBLED MONOLAYERS"					
06/02/1997 – 11/30/2001	FY01: \$0		Total: \$419,000		
<i>Prin. Invest.:</i> J M FRIEDMAN					
<i>Tech. Officer:</i> MSFC/B GUYNES, MSFC/J MAYO					
<i>CASE Category:</i> 19 – PHYSICAL SCIENCE, OTHER					
NAG 8 1658	UNIV HOUSTON-HOUSTON	8689			
DEVELOPMENT OF SPACE RADIATION MONTE-CARLO COMPUT-ER SIMULATION BASED ON FLUKA & ROOT CODE					
05/01/2000 – 11/30/2003	FY01: \$114,000		Total: \$184,000		
<i>Prin. Invest.:</i> L S PINSKY					
<i>Tech. Officer:</i> MSFC/P DOTY					
<i>CASE Category:</i> 19 – PHYSICAL SCIENCE, OTHER					
NAG 9 867	UNIV HOUSTON-HOUSTON	8690			
NASA-ASEE SUMMER FACULTY FELLOWSHIPS					
05/09/1996 – 06/06/2002	FY01: \$0		Total: \$1,213,000		
<i>Prin. Invest.:</i> R B BANNEROT					
<i>Tech. Officer:</i> JSC/D SICKKOREZ					
<i>CASE Category:</i> 46 – MECHANICAL ENGR					
NAG 9 904	UNIV HOUSTON-HOUSTON	8691			
CHARACTERIZATION OF EXHAUST PLUME OF VARIABLE IMPULSE PLASMA ROCKET					
09/23/1996 – 08/31/2000	FY01: \$0		Total: \$59,500		
<i>Prin. Invest.:</i> D BERING					
<i>Tech. Officer:</i> JSC/F CHANG-DIAZ					
<i>CASE Category:</i> 19 – PHYSICAL SCIENCE, OTHER					
NAG 9 985	UNIV HOUSTON-HOUSTON	8692			
INVESTIGATE & DEVELOP ADVANCED TRAINING TECHNOLOGY					
01/16/1998 – 08/31/2002	FY01: -\$93,094		Total: \$1,123,078		
<i>Prin. Invest.:</i> B LOFTIN					
<i>Tech. Officer:</i> JSC/R SAVELY					
<i>CASE Category:</i> 22 – COMPUTER SCIENCE					

NAG 9 1012	UNIV HOUSTON-HOUSTON	8693		NAG 9 1305	UNIV HOUSTON-HOUSTON	8701	
TWO PHASE SYSTEMS FOR MARS-G				GRADUATE STUDENT RESERACH PROGRAM	CARBON NANOTUBE		
05/20/1998 - 06/30/2001	FY01: \$0		Total: \$70,411	POLYMER NANOCOMPOSITES			
<i>Prin. Invest.:</i> L C WHITTE				06/14/2001 - 07/31/2002	FY01: \$22,000		Total: \$22,000
<i>Tech. Officer:</i> JSC/J D CORNWELL				<i>Prin. Invest.:</i> R KRISHNAMOORTI			
<i>CASE Category:</i> 46 - MECHANICAL ENGR				<i>Tech. Officer:</i> JSC/B FILES			
				<i>CASE Category:</i> 43 - CHEMICAL ENGR			
NAG 9 1055	UNIV HOUSTON-HOUSTON	8694		NAG 9 1347	UNIV HOUSTON-HOUSTON	8702	
URBAN EXPERIENCE PROGRAM				NOVEL TISSUE ASSEMBLIES: MODELS FOR ENTERIC PATHOGENESIS			
09/22/1998 - 09/30/2001	FY01: \$0		Total: \$105,000	07/07/2001 - 07/31/2002	FY01: \$25,894		Total: \$25,894
<i>Prin. Invest.:</i> T MINDIOLA, JR.				<i>Prin. Invest.:</i> L S PINSKY			
<i>Tech. Officer:</i> JSC/L ARMENDARIZ				<i>Tech. Officer:</i> JSC/G BADHWAR			
<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER				<i>CASE Category:</i> 13 - PHYSICS			
NAG 9 1103	UNIV HOUSTON-HOUSTON	8695		NAG 9 1363	UNIV HOUSTON-HOUSTON	8703	
THE SEARCH FOR MICROBIAL BIOMARKERS IN TERRESTRIAL DEPOSITS				URBAN EXPERIENCE PROGRAM			
05/04/1999 - 03/09/2004	FY01: \$20,000		Total: \$60,000	07/10/2001 - 07/11/2004	FY01: \$25,000		Total: \$25,000
<i>Prin. Invest.:</i> H S CHAFETZ				<i>Prin. Invest.:</i> T MINDIOLA			
<i>Tech. Officer:</i> JSC/E K GIBSON				<i>Tech. Officer:</i> JSC/L M ARMENDARIZ			
<i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER				<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER			
NAG 9 1140	UNIV HOUSTON-HOUSTON	8696		NCC 2 5394	UNIV HOUSTON-HOUSTON	8704	
OPTIMAL CHARACTERIZATION OF THE ORBITAL DEBRIS ENVIR FROM				THE SCALABILITY OF OPENMP ON LARGE-SCALE DISTRIBUTED SHARED-			
MULTIPLE MEASMNTS				MEMORY ARCHITECTURES SUCH AS THESGI OR			
08/15/1999 - 08/14/2000	FY01: \$0		Total: \$32,061	08/14/2000 - 08/31/2001	FY01: \$70,000		Total: \$95,000
<i>Prin. Invest.:</i> T J HEBERT				<i>Prin. Invest.:</i> B CHAPMAN			
<i>Tech. Officer:</i> JSC/E G STANSBERY, JSC/J R THEALL				<i>Tech. Officer:</i> ARC/J YAN			
<i>CASE Category:</i> 49 - ENGINEERING, OTHER				<i>CASE Category:</i> 22 - COMPUTER SCIENCE			
NAG 9 1152	UNIV HOUSTON-HOUSTON	8697		NCC 2 5396	UNIV HOUSTON-HOUSTON	8705	
THERAPEUTIC EFFICACY OF GROWTH HORMONE				MINERALS & SUBMICROMETER FORMS AS BIOSIGNATURES			
09/20/1999 - 11/08/2002	FY01: \$179,551		Total: \$384,418	08/28/2000 - 08/31/2002	FY01: \$15,000		Total: \$30,000
<i>Prin. Invest.:</i> D A MARTINEZ				<i>Prin. Invest.:</i> A D HAYMET			
<i>Tech. Officer:</i> JSC/C W LLOYD				<i>Tech. Officer:</i> ARC/D F BLAKE			
<i>CASE Category:</i> 59 - LIFE SCIENCE, OTHER				<i>CASE Category:</i> 12 - CHEMISTRY			
NAG 9 1223	UNIV HOUSTON-HOUSTON	8698		NCC 8 127	UNIV HOUSTON-HOUSTON	8706	
TEXAS LEARNING AND COMPUTATIONAL CENTER				FOR RESEARCH "CONTINUATION OF SUPPORT FOR THE COMMERCIAL			
10/23/2000 - 08/16/2002	FY01: \$3,661,000		Total: \$3,661,000	SPACE CENTER, SPACE VACUUM EPITAXY CTR			
<i>Prin. Invest.:</i> G VALIAS, B BOYCO				01/21/1997 - 10/14/2001	FY01: \$1,000,000		Total: \$7,500,000
<i>Tech. Officer:</i> JSC/R P KEHOE, JSC/S P CAMPBELL				<i>Prin. Invest.:</i> A IGNATIEV, S S PEI			
<i>CASE Category:</i> 22 - COMPUTER SCIENCE				<i>Tech. Officer:</i> MSFC/S J LAMBING			
				<i>CASE Category:</i> 47 - METAL & MATERIALS ENGR			
NAG 9 1287	UNIV HOUSTON-HOUSTON	8699		NCC 9 57	UNIV HOUSTON-HOUSTON	8707	
ADVANCED CROSS ENTERPRISE TECHNOLOGY DEVELOPMENT F OR				VIRTUAL REALITY TRAINING CYBERSICKNESS & EFFECTS OF SENSORI-			
NASA MISSIONS				MOTOR FUNCTIONS			
03/27/2001 - 03/31/2003	FY01: \$382,000		Total: \$382,000	02/22/2000 - 09/30/2000	FY01: -\$3,153		Total: \$20,053
<i>Prin. Invest.:</i> A IGNATIEV				<i>Prin. Invest.:</i> R B LOFTIN			
<i>Tech. Officer:</i> JSC/R S BAIRD				<i>Tech. Officer:</i> JSC/D HARM			
<i>CASE Category:</i> 49 - ENGINEERING, OTHER				<i>CASE Category:</i> 61 - PSYCHOLOGY BIOLOGY			
NAG 9 1293	UNIV HOUSTON-HOUSTON	8700		NCC 9 70	UNIV HOUSTON-HOUSTON	8708	
DEVELOPMENT OF REDUCED SURFACE WAVE ANTENNAS FOR THE NASA/				UH NASA TECHNOLOGY COMMERCIALIZATION			
JSC NAVIGATION				03/24/1998 - 12/31/2001	FY01: \$400,000		Total: \$1,200,000
04/16/2001 - 04/30/2004	FY01: \$39,394		Total: \$39,394	<i>Prin. Invest.:</i> A V VAILLAS			
<i>Prin. Invest.:</i> J T WILLIAMS				<i>Tech. Officer:</i> JSC/H L DAVIS			
<i>Tech. Officer:</i> JSC/J W BELL				<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER			
<i>CASE Category:</i> 42 - ASTRONAUTICAL ENGR							

NGT 3 52356 UNIV HOUSTON-HOUSTON 8709
 GRADUATE STUDENT RESEARCH PROGRAM GRADUATE STUDENT
 RESEARCH PROGRAM
 07/01/1999 - 08/31/2001 FY01: \$0 Total: \$44,000
Prin. Invest.: V BALAKOTAIAH
Tech. Officer: GRC/F J MONTEGANI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50182 UNIV HOUSTON-HOUSTON 8710
 PRIMORDIAL PEPTIDE SYNTHESIS IN THE ORIGIN OF LIFE
 05/27/1998 - 06/30/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: G E FOX
Tech. Officer: HQ/A NURRIDIN
CASE Category: 12 - CHEMISTRY

NAG 9 859 UNIV OF TEXAS MEDICAL BRANCH - GALVESTON 8711
 SPACE MEDICINE FELLOWSHIP PROPOSAL
 06/10/1996 - 06/30/2001 FY01: \$0 Total: \$136,188
Prin. Invest.: W A WASSON
Tech. Officer: JSC/R BILLICA
CASE Category: 56 - MEDICL

NAG 9 1155 UNIV OF TEXAS MEDICAL BRANCH - GALVESTON 8712
 NUTRITIONAL INTERVENTION TO IMPROVE MUSCLE PROTEIN METABOLISM DURING STRESS
 09/16/1999 - 11/30/2002 FY01: \$207,426 Total: \$386,092
Prin. Invest.: A A FERRANDO
Tech. Officer: JSC/C LLOYD
CASE Category: 56 - MEDICL

NAS 9 01006 UNIV OF TEXAS MEDICAL BRANCH - GALVESTON 8713
 ISS FLIGHT EXPERIMENT E129
 01/23/2001 - 12/31/2004 FY01: \$226,059 Total: \$226,059
Prin. Invest.: A D BARRET
Tech. Officer: JSC/M ANDERSON
CASE Category: 56 - MEDICL

NAS 9 97147 UNIV OF TEXAS MEDICAL BRANCH - GALVESTON 8714
 PROTEIN TURNOVER DURING SPACE FLIGHT
 02/24/1997 - 08/31/2002 FY01: \$160,000 Total: \$618,000
Prin. Invest.: A FERRANDO
Tech. Officer: JSC/A LEE
CASE Category: 56 - MEDICL

NAS 9 98138 UNIV OF TEXAS MEDICAL BRANCH - GALVESTON 8715
 SMALL PAYLOAD EXPERIMENT
 10/28/1998 - 10/27/2001 FY01: \$104,356 Total: \$299,356
Prin. Invest.: M MCGINNIS
Tech. Officer: JSC/C HAVEN
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NCC 2 1160 UNIV OF TEXAS MEDICAL BRANCH - GALVESTON 8716
 STREPTOCOCCUS PNEUMONIAE GENE EXPRESSION AND VIRULENCE POTENTIAL IN THE SPACE ENVIRONMENT
 02/11/2000 - 01/14/2002 FY01: \$86,901 Total: \$237,517
Prin. Invest.: D NIESSEL
Tech. Officer: ARC/C M WINGET, ARC/D REISS-BUBENHEIM
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NCC 8 170 UNIV OF TEXAS MEDICAL BRANCH - GALVESTON 8717
 R/S DIFFERENTIATION OF 3 DIMENSIONAL CO-CULTURES OF MYOFIBROBLASTS, PRENEOPLASTIC
 03/23/1999 - 11/30/2002 FY01: \$176,800 Total: \$440,800
Prin. Invest.: V CHOPPA
Tech. Officer: MSFC/V CHOPPA
CASE Category: 56 - MEDICL

NCC 9 81 UNIV OF TEXAS MEDICAL BRANCH - GALVESTON 8718
 UTMB/NASA-JSC GRADUATE MED TRAINING IN AEROSPACE MEDICINE
 12/07/1998 - 09/30/2003 FY01: \$355,654 Total: \$687,534
Prin. Invest.: J R DAVIS
Tech. Officer: JSC/R BILLICA
CASE Category: 59 - LIFE SCIENCE, OTHER

NCC 9 123 UNIV OF TEXAS MEDICAL BRANCH - GALVESTON 8719
 SPATIAL REORIENTATION OF SENSORIMOTOR BALANCE CONTROL IN ALTERED GRAVITY
 02/22/2001 - 11/30/2003 FY01: \$7,450 Total: \$7,450
Prin. Invest.: G KAUFMAN
Tech. Officer: JSC/B PALOSKI
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NGT 9 47 UNIV OF TEXAS MEDICAL BRANCH - GALVESTON 8720
 TRAINING PROGRAM FOR TWO STUDENTS @ GRADUATE SCHOOL OF BIOMEDICAL SCIENCES
 04/12/2000 - 05/31/2002 FY01: \$50,000 Total: \$100,000
Prin. Invest.: C W COOPER
Tech. Officer: JSC/C W LLOYD
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 2 952 UNIV OF TEXAS-HLTH SCI CTR-SAN ANTONIO 8721
 DEVELOPMENT OF BESTIBULAR ORGANS IN MICROGRAVITY
 12/16/1994 - 11/30/2000 FY01: \$0 Total: \$757,735
Prin. Invest.: M L WIEDERHOLD
Tech. Officer: ARC/W E HINDS, ARC/C M WINGET
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 9 1206 UNIV OF TEXAS-HLTH SCI CTR-SAN ANTONIO 8722
 USE OF NASA BIOREACTOR TO STUDY CELL CYCLE REGULATION
 03/01/2000 - 02/28/2002 FY01: \$150,000 Total: \$337,785
Prin. Invest.: J M JESSUP
Tech. Officer: JSC/S GONDA
CASE Category: 56 - MEDICL

NAG10 180 UNIV OF TEXAS-HLTH SCI CTR-SAN ANTONIO 8723
 FUNCT DEV IN A MODEL VESTIBULAR SYS
 01/18/1996 - 09/30/2002 FY01: -\$6,750 Total: \$703,425
Prin. Invest.: M L WIEDERHOLD
Tech. Officer: KSC/W M KNOTT
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 8 1634 UNIV OF TEXAS-PAN AMERICAN 8724
 OPTIMAL DESIGN OF HYBRID PASSIVE VISCOELASTIC AND ACTIVE PIEZOELECTRIC DAMPING LAYERS
 09/30/1999 - 09/30/2001 FY01: \$98,256 Total: \$196,469
Prin. Invest.: A LUMSDAINE
Tech. Officer: MSFC/A BEAM, MSFC/W LOVE
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 9 1169 UNIV OF TEXAS-PAN AMERICAN 8725
 PAARTNERSHIP FOR SCIENCE AND ENGR STUDENT SUCCESS
 09/27/1999 - 09/29/2001 FY01: \$58,861 Total: \$195,825
Prin. Invest.: R FOWLER, J LANAGABEER
Tech. Officer: JSC/S GONZALEZ, JSC/L ARMENDARIZ
CASE Category: 54 - ENVIRONMENTAL BIOLOGY

NAG 2 962 UNIV OF TEXAS, HEALTH SCI CTR-DALLAS 8726
 SPACE FLIGHT, STRESS & PLASTICITY
 02/07/1995 - 12/31/2000 FY01: \$0 Total: \$573,376
Prin. Invest.: S T BRADY
Tech. Officer: ARC/D REISS-BUBENHEIM, ARC/W E HINDS
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 5 4846 UNIV OF TEXAS, HEALTH SCI CTR-DALLAS 8727
 THE ROLE OF CARDIAC MECHANICS IN BLOOD PRESSURE RE TATIC
 STRESS
 06/27/1997 - 09/30/2001 FY01: \$0 Total: \$525,000
Prin. Invest.: B LEVINE, NONE
Tech. Officer: GSFC/V SCHNEIDER
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 9 1033 UNIV OF TEXAS, HEALTH SCI CTR-DALLAS 8728
 MICROCIRCULATORY ADJUSTMENT TO SIMULATED MICROGRAVITY EXPO-
 SURE IN HUMANS
 07/16/1998 - 07/14/2002 FY01: \$107,722 Total: \$475,700
Prin. Invest.: C G CRANDALL
Tech. Officer: JSC/C W LLOYD
CASE Category: 56 - MEDICL

NAS 9 19429 UNIV OF TEXAS, HEALTH SCI CTR-DALLAS 8729
 INTEGRATION OF NEURAL CARDIOVASCULAR CONTROL IN SPACE
 10/31/1995 - 09/30/2000 FY01: \$0 Total: \$889,471
Prin. Invest.: C G BLOMQUIST
Tech. Officer: JSC/A M LEE
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 9 19540 UNIV OF TEXAS, HEALTH SCI CTR-DALLAS 8730
 ADAPTIVE CHANGES IN CARDIOVASCULAR CONTROL AT MICROGRAVITY
 02/13/1996 - 07/31/2000 FY01: \$0 Total: \$965,190
Prin. Invest.: C G BLOMQUIST, NONE
Tech. Officer: JSC/C M SMITH
CASE Category: 56 - MEDICL

NAG 2 1505 UNIV OF TEXAS MD ANDERSON CANCER CENTER 8731
 GRAVITY AND INTERGRIN MEDIATED HUMAN LYMPHOCYTE AD HESION
 07/26/2001 - 07/14/2002 FY01: \$119,339 Total: \$119,339
Prin. Invest.: B W MCINTYRE
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 8 1347 UNIV OF TEXAS MD ANDERSON CANCER CENTER 8732
 USE OF NASA BIOREACTORS IN A NOVEL SCHEME FOR IMMUNIZATION
 AGAINST CANCER
 06/18/1997 - 12/31/2000 FY01: \$0 Total: \$457,338
Prin. Invest.: C A SAVARY
Tech. Officer: JSC/S R GONDAS
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 8 1348 UNIV OF TEXAS MD ANDERSON CANCER CENTER 8733
 APPLICATION OF BIOREACTOR TECHNOLOGY ANALYSIS AND COUNTER
 MEASURE DEVELOPMENT OF MICROGRAVITY
 06/18/1997 - 11/30/2001 FY01: \$35,000 Total: \$404,467
Prin. Invest.: E H GRIMM
Tech. Officer: JSC/S R GONDAS
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 8 1570 UNIV OF TEXAS MD ANDERSON CANCER CENTER 8734
 APPLICATION OF BIOREACTOR TECHNOLOGY FOR A PRECLINICAL HUMAN
 MODEL OF MELANOMA
 03/19/1999 - 11/02/2003 FY01: \$128,250 Total: \$364,250
Prin. Invest.: E A GRIMM
Tech. Officer: MSFC/B V GUYNES
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 2 1261 UNIV OF TEXAS-HLTH SCIENCE CTR-HOUSTON 8735
 RELATIONSHIP OF MORPHOGENESIS & MINERALIZATION TO GRAVITY IN
 SPACEFLOWN ALGAE
 09/01/1998 - 12/31/2001 FY01: \$78,079 Total: \$236,387
Prin. Invest.: P J DUKE
Tech. Officer: ARC/O SANTOS, ARC/P D SAVAGE
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 2 1498 UNIV OF TEXAS-HLTH SCIENCE CTR-HOUSTON 8736
 CYTOPLASMIC/GOLGI INTERACTIONS IN THE NANOFABRICAT ION OF
 BIOMINERAL COMPOSITES - A GENETIC APPROACH
 07/05/2001 - 06/30/2002 FY01: \$92,688 Total: \$92,688
Prin. Invest.: M E MARSH
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 5 4710 UNIV OF TEXAS-HLTH SCIENCE CTR-HOUSTON 8737
 GRAVITY AND THE REGULATION OF A CENTRAL GROWTH FAC
 06/11/1997 - 01/31/2002 FY01: \$0 Total: \$409,271
Prin. Invest.: E DURBAN
Tech. Officer: GSFC/M AVERNER
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 8 1585 UNIV OF TEXAS-HLTH SCIENCE CTR-HOUSTON 8738
 IMPACT/MICROGRAVITY ON IMMUNOGENICITY ASSOCIATED WITH
 BISTRUCTURAL CHANGES/PANCRATIC ISLETS
 03/19/1999 - 12/31/2002 FY01: \$120,650 Total: \$333,083
Prin. Invest.: L P RUTZKY
Tech. Officer: MSFC/B V GUYNES
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 9 813 UNIV OF TEXAS-HLTH SCIENCE CTR-HOUSTON 8739
 EFFECT OF MICROGRAVITY ON HUMAN SKIN EQUIVALENT
 08/11/1995 - 12/19/2000 FY01: -\$1,303 Total: \$237,697
Prin. Invest.: D DIMITRIJEVICH
Tech. Officer: JSC/N PELLIS
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 9 834 UNIV OF TEXAS-HLTH SCIENCE CTR-HOUSTON 8740
 USE OF ROTATING WALL VESSEL TO FACILITATE CULTURE OF NORWALK
 VIRUS
 08/22/1995 - 08/31/2000 FY01: -\$773 Total: \$699,227
Prin. Invest.: P JOHNSON
Tech. Officer: JSC/N PELLIS
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 9 952 UNIV. OF TEXAS-HLTH SCIENCE CTR-HOUSTON 8741
 EXERCISE DURING PREBREATHE: REDUCTION OF THE H-2-O
 PREBREATHE TIME
 08/14/1997 - 02/14/2001 FY01: \$0 Total: \$54,000
Prin. Invest.: C FIFE
Tech. Officer: JSC/M R POWELL
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 9 1040 UNIV. OF TEXAS-HLTH SCIENCE CTR-HOUSTON 8742
 EFFECTS OF CIRCADIAN RHYTHMS ON DEPRESSION OUTCOME
 06/22/1998 - 06/30/2002 FY01: \$65,519 Total: \$294,519
Prin. Invest.: B BUTLER
Tech. Officer: JSC/C SAWIN
CASE Category: 56 - MEDICL

NAG 9 1144 UNIV. OF TEXAS-HLTH SCIENCE CTR-HOUSTON 8743
 DUST STIMULANTS ON LUNG INFLAMMATION AND ALVEOLAR MACRO-
 PHAGE FUNCTION
 09/20/1999 - 09/19/2002 FY01: -\$2,994 Total: \$7,006
Prin. Invest.: A HOLIAN
Tech. Officer: JSC/J T JAMES
CASE Category: 56 - MEDICL

NAG 9 1247 UNIV. OF TEXAS-HLTH SCIENCE CTR-HOUSTON 8744
 DEVELOP REINFORCEMENT LEARNING TECHNIQUES FOR EFFIC IENT
 TRAINING ROBOTIC SYSTEMS
 07/18/2000 - 07/19/2002 FY01: \$0 Total: \$60,000
Prin. Invest.: H WANG, J ZHANG, T R JOHNSON
Tech. Officer: JSC/R T SAVELY
CASE Category: 22 - COMPUTER SCIENCE

NAG 9 1353 UNIV. OF TEXAS-HLTH SCIENCE CTR-HOUSTON 8745
 EFFECT OF MICROGRAVITY ON PANCREATIC ISLET XENOTRANSPLATA-
 TION,VASCULARIZATION & STEM CELL
 07/27/2001 - 09/30/2004 FY01: \$37,000 Total: \$37,000
Prin. Invest.: L P RUTZKY, S M STEPKOWSKI, S M KATZ
Tech. Officer: JSC/D RISIN
CASE Category: 56 - MEDICL

NCC 2 1234 UNIV. OF TEXAS-HLTH SCIENCE CTR-HOUSTON 8746
 HUMAN CENTERED INTELLIGENT FLIGHT SURGEON CONSOLE
 03/29/2001 - 02/28/2002 FY01: \$98,000 Total: \$98,000
Prin. Invest.: J ZHANG
Tech. Officer: ARC/P M JONES, ARC/M G SHAFTO
CASE Category: 22 - COMPUTER SCIENCE

NCC 8 168 UNIV. OF TEXAS-HLTH SCIENCE CTR-HOUSTON 8747
 NUTRITION IMMUNOMODULATION IN MICROGRAVITY
 03/05/1999 - 11/30/2002 FY01: \$139,650 Total: \$421,650
Prin. Invest.: A D KULKARNI
Tech. Officer: JSC/S GONDAS
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NCC 9 82 UNIV. OF TEXAS-HLTH SCIENCE CTR-HOUSTON 8748
 EVA PREBREATHE REDUCTION PROTOCOL
 03/11/1999 - 03/10/2003 FY01: \$0 Total: \$275,000
Prin. Invest.: B BUTLER
Tech. Officer: JSC/M GERNHARDT
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 9 90 UNIV. OF TEXAS-HLTH SCIENCE CTR-HOUSTON 8749
 GAS PHASE FORMATION, GROWTH AND EFFECTS OF SURFACE TENSION
 02/11/2000 - 02/20/2002 FY01: \$0 Total: \$55,162
Prin. Invest.: B D BUTLER, NONE
Tech. Officer: JSC/M R POWELL
CASE Category: 59 - LIFE SCIENCE, OTHER

NCC 9 103 UNIV. OF TEXAS-HLTH SCIENCE CTR-HOUSTON 8750
 CHARACTERIZATION OF AUTONOMIC FUNCTION
 02/21/2000 - 02/20/2003 FY01: \$7,417 Total: \$14,834
Prin. Invest.: R F LODATO
Tech. Officer: JSC/J MECK
CASE Category: 59 - LIFE SCIENCE, OTHER

NGT 9 46 UNIV. OF TEXAS-HLTH SCIENCE CTR-HOUSTON 8751
 TRAINING PROGRAM FOR TWO STUDENTS AT THE GRADUATE SCHOOL OF
 BIOMEDICAL SCIENCES
 04/07/2000 - 05/31/2002 FY01: \$50,000 Total: \$100,000
Prin. Invest.: J WEINDER
Tech. Officer: JSC/C W LLOYD
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 9 1083 UNIV OF HOUSTON - CLEAR LAKE 8752
 COX REGRESSION MODELING AND ANALYSIS OF NASA/JSC EXPERI-
 MENTAL DATA ON DECOMPRESSION SICKNESS
 02/20/1999 - 09/30/2001 FY01: \$0 Total: \$30,000
Prin. Invest.: R S CHHIKARA
Tech. Officer: JSC/M POWELL
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 9 1295 UNIV OF HOUSTON - CLEAR LAKE 8753
 OPC-BASED CONTROL SYSTEM FOR BIO-PLEX
 04/23/2001 - 05/31/2001 FY01: \$3,000 Total: \$3,000
Prin. Invest.: T FEAGIN
Tech. Officer: JSC/D OVERLAND
CASE Category: 29 - MATH/COMPUTER SCI, OTHER

NCC 9 30 UNIV OF HOUSTON - CLEAR LAKE 8754
 RESEARCH FOR COMPUTING & INFORMATION SYSTEMS
 08/08/1994 - 06/30/2002 FY01: \$9,039,548 Total: \$32,550,998
Prin. Invest.: E T DICKERSON
Tech. Officer: JSC/R T SAVELY
CASE Category: 22 - COMPUTER SCIENCE

NCC 9 76 UNIV OF HOUSTON - CLEAR LAKE 8755
 STATISTICAL PROCESS CONTROL OF SHUTTLE MAINT OPS
 09/24/1998 - 09/23/2000 FY01: -\$57 Total: \$32,628
Prin. Invest.: R S CHHIKARA
Tech. Officer: JSC/JARRELL
CASE Category: 29 - MATH/COMPUTER SCI, OTHER

NGT 9 48 UNIV OF HOUSTON - CLEAR LAKE 8756
 NASA IMAGE INST FOR GEOGRAPHY & EARTH SCIENCE TEACHERS
 06/01/2000 - 12/31/2000 FY01: \$0 Total: \$21,900
Prin. Invest.: J N MACIR
Tech. Officer: JSC/N G ROBERTSON
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10149 UNIV OF HOUSTON - DOWNTOWN 8757
 AN URBAN OUTREACH PROGRAM IN SPACE SCIENCE: A COLLABORATIVE EFFORT BETWEEN NASA, HISPANIC SERVING & 01/03/2001 - 12/31/2001 FY01: \$212,998 Total: \$212,998
Prin. Invest.: P A MORRIS-SMITH
Tech. Officer: GSFC/P SAKIMOTO
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 9 1018 UNIV OF HOUSTON - DOWNTOWN 8758
 PRECOLLEGE AWARD FOR EXCELLENCE PACE/MSET 05/01/1998 - 04/30/2001 FY01: \$0 Total: \$299,400
Prin. Invest.: R ALO
Tech. Officer: JSC/L ARMENDARIZ
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 9 1113 UNIV OF HOUSTON - DOWNTOWN 8759
 ANCIENT LIFE IN ROCKS ON EARTH 05/14/1999 - 05/13/2002 FY01: \$10,000 Total: \$30,000
Prin. Invest.: P A MORRIS-SMITH
Tech. Officer: JSC/E K GIBSON
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 9 1114 UNIV OF HOUSTON - DOWNTOWN 8760
 ANCIENT LIFE IN ROCKS ON EARTH 05/14/1999 - 05/13/2002 FY01: \$10,000 Total: \$30,000
Prin. Invest.: P A MORRIS-SMITH
Tech. Officer: JSC/E K GIBSON
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 4891 UNIV OF NORTH TEXAS 8761
 THE PRODUCTION, CONCENTRATION, AND ARRANGEMENT OF INORGANIC HOSTS 06/19/1997 - 08/31/2000 FY01: \$0 Total: \$210,000
Prin. Invest.: D S BRATERMAN
Tech. Officer: GSFC/M MEYER
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 5 3744 UNIV OF NORTH TEXAS HLTH SCI.CTR AT FT.WORTH 8762
 MICROGRAVITY: SLEEP DEPRIVATION AND AUTONOMIC CONTROL 03/11/1997 - 03/14/2001 FY01: \$0 Total: \$263,844
Prin. Invest.: M SMITH, NONE
Tech. Officer: GSFC/V SCHNEIDER
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 5 4668 UNIV OF NORTH TEXAS HLTH SCI.CTR AT FT.WORTH 8763
 CARTOID BAROREFLEX FUNCTION DURING PROLONGED EXERCISE 06/17/1997 - 05/31/2001 FY01: \$0 Total: \$301,896
Prin. Invest.: P B RAVEN
Tech. Officer: GSFC/V SCHNEIDER
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 9 1262 UNIV OF NORTH TEXAS HLTH SCI.CTR AT FT.WORTH 8764
 VESTIBULAR MODULATION OF AUTONOMIC RESPONSES TO ORTHOSTASIS 11/16/2000 - 10/31/2003 FY01: \$173,598 Total: \$173,598
Prin. Invest.: M L SMITH, D ORR, D E WATENPAUGH
Tech. Officer: JSC/C W LLOYD
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50179 UNIV OF NORTH TEXAS HLTH SCI.CTR AT FT.WORTH 8765
 SLEEP RESTRICTION AND MECHANISMS OF ORTHOSTATIC TOLERANCE 10/31/1997 - 08/31/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: M SMITH
Tech. Officer: HQ/A NURRIDIN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 1 01017 UNIV OF TEXAS - ARLINGTON 8766
 NANO-FILM OF HIGH RESOLUTION PRESSURE SENSING 03/01/2001 - 12/15/2001 FY01: \$23,239 Total: \$23,239
Prin. Invest.: S P JOSHI
Tech. Officer: LARC/S K KAHNG
CASE Category: 43 - CHEMICAL ENGR

NCC 2 5395 UNIV OF TEXAS - ARLINGTON 8767
 SCHEDULING & LOAD BALANCING ON THE INFORMATION POWER GRID 08/15/2000 - 10/31/2001 FY01: \$60,320 Total: \$85,320
Prin. Invest.: S K DAS
Tech. Officer: ARC/R BISWAS, ARC/D KWAK
CASE Category: 22 - COMPUTER SCIENCE

NGT 5 30382 UNIV OF TEXAS - ARLINGTON 8768
 MINING OF STRUCTURAL DATA TO DISCOVER PRABABILISTIC SUBSTRUCTURES JOSEPH T.POTTS 08/13/2001 - 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: D COOK
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 1 2197 UNIV OF TEXAS - AUSTIN 8769
 A COMPUTATIONAL PROCEDURE FOR THREE DIMENSIONAL STRESS ANALYSIS FRACTURES 05/19/1999 - 05/31/2000 FY01: -\$2,300 Total: \$61,893
Prin. Invest.: M E MEAR
Tech. Officer: LARC/J C NEWMAN, JR., LARC/I S RAJU
CASE Category: 46 - MECHANICAL ENGR

NAG 1 01109 UNIV OF TEXAS - AUSTIN 8770
 APPLICATION OF HOS AND VOLTERRA MODELS TO AEROELASTIC SYSTEM IDENTIFICATION 07/18/2001 - 12/17/2001 FY01: \$35,000 Total: \$35,000
Prin. Invest.: E J POWERS
Tech. Officer: LARC/W A SILVA
CASE Category: 41 - AERONAUTICAL ENGR

NAG 2 1053 UNIV OF TEXAS - AUSTIN 8771
 FAR-INFRARED EMISSION-LINE OBSERVATIONS FROM THE KA0 06/17/1996 - 02/29/2000 FY01: -\$5,883 Total: \$4,877
Prin. Invest.: H L DINERSTEIN
Tech. Officer: ARC/L QUAIFFE, ARC/C B WILTSEE
CASE Category: 11 - ASTRONOMY

NAG 2 1347 UNIV OF TEXAS - AUSTIN 8772
 CELLULAR BASES OF LIGHT REGULATED GRAVITY RESPONSE S 07/23/1999 - 06/30/2002 FY01: \$116,663 Total: \$305,884
Prin. Invest.: S J ROUX
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 2 1349 **UNIV OF TEXAS - AUSTIN** **8773**
 EVOLUTIONARY ORIGIN OF BODY AXIS SEGMENTATION IN A NNELIDS &
 ARTHROPODS
 07/20/1999 - 07/14/2002 FY01: \$179,476 Total: \$397,675
Prin. Invest.: S M SHANKLAND
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 3 1839 **UNIV OF TEXAS - AUSTIN** **8774**
 INSTABILITIES IN SURFACE-TENSION DRIVEN CONVECTION
 05/06/1996 - 05/05/2001 FY01: \$0 Total: \$500,000
Prin. Invest.: H L SWINNEY
Tech. Officer: GRC/A T CHAI
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 3 1901 **UNIV OF TEXAS - AUSTIN** **8775**
 PRECISION MEASUREMENTS WITH TRAPPED LASER-COOLED AT OMS IN A
 MICROGRAVITY ENVIRONMENT
 06/14/1996 - 01/01/2001 FY01: \$17,000 Total: \$432,000
Prin. Invest.: D J HEINZEN
Tech. Officer: GRC/B S SINGH
CASE Category: 13 - PHYSICS

NAG 3 2240 **UNIV OF TEXAS - AUSTIN** **8776**
 LASER VELOCIMETER FOR STUDIES OF MICROGRAVITY COMB USTION
 FLOWFIELDS
 02/26/1999 - 01/13/2002 FY01: \$89,750 Total: \$247,750
Prin. Invest.: P L VARGHESE
Tech. Officer: GRC/P S GREENBERG
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2265 **UNIV OF TEXAS - AUSTIN** **8777**
 COMPOSITE FLYWHEEL PRELOAD MONITOR COMPOSITE FLYWHEEL
 PRELOAD MONITOR
 05/12/1999 - 03/31/2000 FY01: \$0 Total: \$50,153
Prin. Invest.: J L BENO
Tech. Officer: GRC/D CHRISTOPHER
CASE Category: 45 - ELECTRICAL ENGR

NAG 3 2602 **UNIV OF TEXAS - AUSTIN** **8778**
 ADVANCED FLYWHEEL MATERIALS DEVELOPMENT PROGRAM FO R HIGH
 SPECIFIC ENENRY, SPACE APPLICIONS
 05/01/2001 - 03/31/2002 FY01: \$50,030 Total: \$50,030
Prin. Invest.: R THOMPSON
Tech. Officer: GRC/K MCLALLIN
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 3 2633 **UNIV OF TEXAS - AUSTIN** **8779**
 HIGH PERFORMANCE AIGAN AND GAN POWER ELECTRONIC DE VICES
 06/18/2001 - 08/31/2002 FY01: \$35,914 Total: \$35,914
Prin. Invest.: D D DUPUIS
Tech. Officer: GRC/G SCHWARZE
CASE Category: 13 - PHYSICS

NAG 5 1603 **UNIV OF TEXAS - AUSTIN** **8780**
 HST - GTO
 05/20/1991 - 09/30/2000 FY01: \$0 Total: \$8,767,603
Prin. Invest.: W H JEFFERYS
Tech. Officer: GSFC/J JELETIC
CASE Category: 11 - ASTRONOMY

NAG 5 1616 **UNIV OF TEXAS - AUSTIN** **8781**
 STELLAR SPECTROSCOPY AND THE HUBBLE SPACE TELESCOP E
 05/24/1991 - 10/31/2000 FY01: -\$924 Total: \$483,130
Prin. Invest.: D L LAMBERT
Tech. Officer: GSFC/E RUITBERG
CASE Category: 11 - ASTRONOMY

NAG 5 3348 **UNIV OF TEXAS - AUSTIN** **8782**
 ANALYSIS OF ISO DATA
 08/12/1996 - 08/14/2000 FY01: \$0 Total: \$264,800
Prin. Invest.: D L LAMBERT
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 3431 **UNIV OF TEXAS - AUSTIN** **8783**
 PARASEC-SCALE ENVIRONMENT OF LIMINOUS AGN: SPECTROSCOPIC
 CLUES TO WINDS, JETS, AND ACCRETION
 10/01/1996 - 09/30/2002 FY01: \$0 Total: \$712,606
Prin. Invest.: B J WILLS
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 3649 **UNIV OF TEXAS - AUSTIN** **8784**
 OBTAINING RELATIVITY AND OTHER RELEVANT PARAMETERS RANGING
 DATA
 03/06/1997 - 02/28/2001 FY01: \$0 Total: \$118,376
Prin. Invest.: D J SHELLLUS
Tech. Officer: GSFC/H HASAN
CASE Category: 11 - ASTRONOMY

NAG 5 3786 **UNIV OF TEXAS - AUSTIN** **8785**
 MCDONALD OBSERVATORY SUPPORT: HARLAN SMITH POST-DO PLAN-
 ETARY SCIENCE
 03/19/1997 - 12/31/2001 FY01: \$32,820 Total: \$251,849
Prin. Invest.: D N BASH
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 - ASTRONOMY

NAG 5 3930 **UNIV OF TEXAS - AUSTIN** **8786**
 COMBUSTION IN ASTROPHYSICS
 03/12/1997 - 03/14/2000 FY01: -\$1 Total: \$47,579
Prin. Invest.: C J WHEELER
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 4208 **UNIV OF TEXAS - AUSTIN** **8787**
 INVESTIGATIONS OF COMETS: HALE-BOPP, THE KUIPER BE OF OPPORTU-
 NITY
 03/14/1997 - 09/14/2000 FY01: \$0 Total: \$261,131
Prin. Invest.: D L COCHRAN
Tech. Officer: GSFC/J BERGSTRALH
CASE Category: 11 - ASTRONOMY

NAG 5 4209 **UNIV OF TEXAS - AUSTIN** **8788**
 MICROMACHINED DIFFRACTION GRATINGS FOR COMPACT IR
 03/14/1997 - 03/30/2001 FY01: \$0 Total: \$217,746
Prin. Invest.: D JAFFE
Tech. Officer: GSFC/G STRINGFELLOW
CASE Category: 11 - ASTRONOMY

NAG 5 4384	UNIV OF TEXAS - AUSTIN	8789	NAG 5 7002	UNIV OF TEXAS - AUSTIN	8797
RADIAL VELOCITY DETECTION OF EXTRA-SOLAR PLANETARY			TIME SERIES ANALYSIS OF THE UV FLICKERING IN AGN		
04/24/1997 - 02/28/2001	FY01: \$0	Total: \$510,003	02/09/1998 - 02/14/2001	FY01: \$0	Total: \$100,000
<i>Prin. Invest.:</i> D D COCHRAN			<i>Prin. Invest.:</i> E ROBINSON		
<i>Tech. Officer:</i> GSFC/J BOYCE			<i>Tech. Officer:</i> GSFC/D K WEST		
<i>CASE Category:</i> 11 - ASTRONOMY			<i>CASE Category:</i> 11 - ASTRONOMY		
NAG 5 5170	UNIV OF TEXAS - AUSTIN	8790	NAG 5 7203	UNIV OF TEXAS - AUSTIN	8798
DETERMINATION OF TIME-VARYING EARTH GRAVITY FIELD F Y			TRACING THE MASS IN AN EVOLUTIONARY SEQUENCE		
07/17/1997 - 12/31/2000	FY01: \$0	Total: \$170,000	04/23/1998 - 04/14/2002	FY01: \$0	Total: \$165,643
<i>Prin. Invest.:</i> M CHENG			<i>Prin. Invest.:</i> N J EVANS, 11		
<i>Tech. Officer:</i> GSFC/H V FREY			<i>Tech. Officer:</i> HQ/J BOYCE		
<i>CASE Category:</i> 32 - GEOLOGICAL SCIENCE			<i>CASE Category:</i> 11 - ASTRONOMY		
NAG 5 5171	UNIV OF TEXAS - AUSTIN	8791	NAG 5 7363	UNIV OF TEXAS - AUSTIN	8799
MEASUREMENT AND INTERPRETATION OF TEMPORAL VARIATION FIELD			THE EVOLUTION OF THE INTERGALACTIC MEDIUM AND THE FORMATION		
USING GPS AND SLR			OF GALAXIES AND LARGE-SCALE STRUCTURE IN		
07/17/1997 - 07/14/2001	FY01: \$0	Total: \$162,000	04/30/1998 - 05/31/2000	FY01: -\$2,644	Total: \$47,356
<i>Prin. Invest.:</i> R R EM			<i>Prin. Invest.:</i> P R SHAPIRO		
<i>Tech. Officer:</i> GSFC/H V FREY			<i>Tech. Officer:</i> GSFC/D K WEST		
<i>CASE Category:</i> 32 - GEOLOGICAL SCIENCE			<i>CASE Category:</i> 11 - ASTRONOMY		
NAG 5 6309	UNIV OF TEXAS - AUSTIN	8792	NAG 5 7582	UNIV OF TEXAS - AUSTIN	8800
EARTH SYSTEM DYNAMICS: THE DETERMINATION & INTERPRETATION OF			"MAPPING NEAR-SURFACE SALINIZATION USING LONG-WAVE LENGTH-		
THE GLOBAL ANGULAR MOMENTUM BUDGET USING			AIRSAR" (SENH98-0113)		
10/10/1997 - 12/31/2000	FY01: \$0	Total: \$3,759,000	08/04/1998 - 07/31/2002	FY01: \$21,000	Total: \$126,000
<i>Prin. Invest.:</i> B TAPLEY			<i>Prin. Invest.:</i> J G PAINE		
<i>Tech. Officer:</i> GSFC/J LABRECQUE			<i>Prin. Invest.:</i> NONE		
<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER			<i>Tech. Officer:</i> GSFC/H V FREY		
NAG 5 6368	UNIV OF TEXAS - AUSTIN	8793	NAG 5 7660	UNIV OF TEXAS - AUSTIN	8801
ASTROMETRY AND DYNAMICS OF NEAR-EARTH OBJECTS AND KIRKWOOD			'PATTERNS OF SHORELINE CHANGE AND HURRICANE WASHOVER ON		
GAPS			BARRIER ISLANDS' (SENH98-0094)		
09/25/1997 - 03/31/2001	FY01: \$0	Total: \$196,812	09/09/1998 - 08/31/2002	FY01: \$100,000	Total: \$600,000
<i>Prin. Invest.:</i> D S BARKER			<i>Prin. Invest.:</i> J C GIBEAUT		
<i>Tech. Officer:</i> GSFC/T MORGAN			<i>Tech. Officer:</i> GSFC/H V FREY		
<i>CASE Category:</i> 11 - ASTRONOMY			<i>CASE Category:</i> 32 - GEOLOGICAL SCIENCE		
NAG 5 6395	UNIV OF TEXAS - AUSTIN	8794	NAG 5 7693	UNIV OF TEXAS - AUSTIN	8802
MULTISCALE SOIL MOISTURE VARIABILITY FROM COMBINED REMOTE			FUNDING FOR 'REMOTE SENSING, GIS AND THE ANCIENT TERRITORY: A		
SENSING, MODELING, AND OBSERVATIONS			PROJECT FOR THE CHORAS OF CHERSONESOS		
10/21/1997 - 06/30/2000	FY01: -\$11,832	Total: \$162,238	09/17/1998 - 03/31/2001	FY01: \$0	Total: \$250,023
<i>Prin. Invest.:</i> J FAMIGLIETTI			<i>Prin. Invest.:</i> J C CARTER		
<i>Tech. Officer:</i> GSFC/M WEI			<i>Prin. Invest.:</i> NONE		
<i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER			<i>Tech. Officer:</i> GSFC/H V FREY		
NAG 5 6728	UNIV OF TEXAS - AUSTIN	8795	NAG 5 7791	UNIV OF TEXAS - AUSTIN	8803
GENERAL RELATIVISTIC AND GRAVITATIONAL PHYSICS PARAMETERS			SPATIALLY-RESOLVED, GROUND-BASED OBSERVATIONS OF MARTIAN		
FROM LUNAR LASER RANGING DATA			ATMOSPHERIC WATER VAPOR: 1999-2002 APP		
12/11/1997 - 12/31/2001	FY01: \$0	Total: \$198,000	12/14/1998 - 08/30/2002	FY01: \$134,008	Total: \$203,708
<i>Prin. Invest.:</i> P J SHELUS			<i>Prin. Invest.:</i> D S BARKER		
<i>Tech. Officer:</i> GSFC/H HASAN			<i>Tech. Officer:</i> GSFC/T MORGAN		
<i>CASE Category:</i> 11 - ASTRONOMY			<i>CASE Category:</i> 11 - ASTRONOMY		
NAG 5 6754	UNIV OF TEXAS - AUSTIN	8796	NAG 5 7821	UNIV OF TEXAS - AUSTIN	8804
GROUND BASED STUDIES OF THE OUTER PLANETS			THE EVOLUTION OF THE INTERGALACTIC MEDIUM AND THE FORMATION		
			OF GALAXIES AND LARGE-SCALE STRUCTURE IN		
12/15/1997 - 12/31/2000	FY01: \$0	Total: \$243,476	02/19/1999 - 02/28/2001	FY01: \$0	Total: \$78,000
<i>Prin. Invest.:</i> L M TRAFTON			<i>Prin. Invest.:</i> P R SHAPIRO		
<i>Tech. Officer:</i> GSFC/T MORGAN			<i>Tech. Officer:</i> GSFC/D K WEST		
<i>CASE Category:</i> 32 - GEOLOGICAL SCIENCE			<i>CASE Category:</i> 11 - ASTRONOMY		

NAG 5 7910 **UNIV OF TEXAS - AUSTIN** **8805**
 CHARACTERIZING THE SIPLE COAST ICE STREAM SYSTEM U SING
 SATELLITE IMAGES,IMPROVED TOPOGRAPHY, AND IN
 12/07/1998 - 12/31/2001 FY01: \$29,721 Total: \$82,341
Prin. Invest.: D D BLANKENSHIP
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7937 **UNIV OF TEXAS - AUSTIN** **8806**
 SUPERNOVAE AND COSMOLOGY
 12/21/1998 - 12/31/2001 FY01: \$109,307 Total: \$314,815
Prin. Invest.: P HOEFLICH
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8143 **UNIV OF TEXAS - AUSTIN** **8807**
 IMPROVED NUMERICAL MODELING OF LOW-DENSITY ATMOSPHERIC
 FLOW ON IO
 02/01/1999 - 12/31/2001 FY01: \$47,776 Total: \$152,688
Prin. Invest.: D GOLDSTEIN
Tech. Officer: GSFC/D BOGAN
CASE Category: 11 - ASTRONOMY

NAG 5 8290 **UNIV OF TEXAS - AUSTIN** **8808**
 OPTIMAL LAND INITIALIZATION FOR SEASONAL CLIMATE PREDICTIONS
 02/24/1999 - 02/28/2002 FY01: \$99,181 Total: \$297,543
Prin. Invest.: J S FAMIGLIETTI
Tech. Officer: GSFC/M RIENECKER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8301 **UNIV OF TEXAS - AUSTIN** **8809**
 PHOTOMETRIC DETECTION OF EXTRA-SOLAR PLANETS
 02/24/1999 - 02/28/2002 FY01: \$97,300 Total: \$269,600
Prin. Invest.: W P COCHRAN
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8381 **UNIV OF TEXAS - AUSTIN** **8810**
 PHYSICS OF ULTRA-MAGNETIZED NEUTRON STARS (ATP 98)
 05/13/1999 - 05/15/2000 FY01: -\$6,290 Total: \$43,710
Prin. Invest.: R C DUNCAN
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8611 **UNIV OF TEXAS - AUSTIN** **8811**
 SOIL MOISTURE VARIABILITY AND ITS ROLE IN LAND ATMOSPHERE
 INTERACTION DURING SGP97
 06/11/1999 - 06/14/2001 FY01: \$0 Total: \$124,590
Prin. Invest.: J S FAMIGLIETTI
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8704 **UNIV OF TEXAS - AUSTIN** **8812**
 USING THE IMPACT OF THE LUNAR PROSPECTOR ORBITER INTO A POLAR
 COLD TRAP TO DETECT WATER ICE
 07/21/1999 - 07/14/2000 FY01: \$0 Total: \$50,000
Prin. Invest.: D B GOLDSTEIN
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 8798 **UNIV OF TEXAS - AUSTIN** **8813**
 VARIATIONS IN SPACE GEODETIC IN TIME SERIES DUE TO WATER REDIS-
 TRIBUTION AND OTHER SOURCES.
 11/02/1999 - 11/14/2001 FY01: \$100,000 Total: \$210,000
Prin. Invest.: C R WILSON
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 8858 **UNIV OF TEXAS - AUSTIN** **8814**
 HIGH INDEX GRISMS FOR MID-INFRARED SPECTROSCOPY.
 09/28/1999 - 01/31/2002 FY01: \$137,475 Total: \$288,671
Prin. Invest.: D T JAFFE
Tech. Officer: GSFC/F HERRERO
CASE Category: 13 - PHYSICS

NAG 5 9003 **UNIV OF TEXAS - AUSTIN** **8815**
 THE CHEMICAL COMPOSITION OF PRIMITIVE BODIES IN THE SOLAR
 SYSTEM
 01/27/2000 - 01/31/2003 FY01: \$121,186 Total: \$205,886
Prin. Invest.: A L COCHRAN
Tech. Officer: GSFC/T H MORGAN
CASE Category: 11 - ASTRONOMY

NAG 5 9144 **UNIV OF TEXAS - AUSTIN** **8816**
 RECONSTRUCTION OF HISTORICAL SEA LEVEL VARIATIONS USING TIDE
 GAUGE DATA AND EMPIRICAL ORTHOGONAL
 02/29/2000 - 02/28/2002 FY01: \$25,000 Total: \$50,000
Prin. Invest.: D P CHAMBERS
Tech. Officer: GSFC/H V FREY
CASE Category: 11 - ASTRONOMY

NAG 5 9163 **UNIV OF TEXAS - AUSTIN** **8817**
 IMPROVEMENT IN GEOID MODELS FOR OCEAN CIRCULATION STUDIES
 03/08/2000 - 03/14/2002 FY01: \$40,000 Total: \$80,000
Prin. Invest.: B TAPLEY
Tech. Officer: GSFC/F HERBERT
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 9227 **UNIV OF TEXAS - AUSTIN** **8818**
 RADIAL VELOCITY DETECTION OF EXTRA-SOLAR PLANETARY SYSTEMS
 03/13/2000 - 03/30/2002 FY01: \$140,000 Total: \$280,000
Prin. Invest.: W COCHRAN
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 9230 **UNIV OF TEXAS - AUSTIN** **8819**
 IMPROVED SILICON DIFFRACTION GRATINGS FOR NEAR-IR SPECTROSCOPY
 FROM SPACE
 03/20/2000 - 03/20/2002 FY01: \$143,000 Total: \$244,736
Prin. Invest.: D JAFFE
Tech. Officer: GSFC/G STRINGFELLOW
CASE Category: 11 - ASTRONOMY

NAG 5 9239 **UNIV OF TEXAS - AUSTIN** **8820**
 FAR-UV ABSORPTION-LINE SPECTROSCOPY OF THE NEUTRAL
 ENVELOPES OF PLANETARY NEBULAE - FUSE
 03/09/2000 - 03/14/2002 FY01: \$0 Total: \$73,600
Prin. Invest.: G SONNEBORN
Tech. Officer: GSFC/H DINERSTEIN
CASE Category: 11 - ASTRONOMY

NAG 5 9302 **UNIV OF TEXAS - AUSTIN** **8821**
 REQUEST FOR SUPPLEMENTAL FUNDING FOR COX POSTDOCTORAL FELLOW
 03/20/2000 - 03/31/2002 FY01: \$0 Total: \$22,500
Prin. Invest.: C WHEELER
Tech. Officer: GSFC/D GOLOMBEK
CASE Category: 11 - ASTRONOMY

NAG 5 9321 **UNIV OF TEXAS - AUSTIN** **8822**
 A PARALLEL GENETICS-ALGORITHM-BASED APPROACH TO WHITE DWARF PULSATION MODELS
 03/22/2000 - 03/31/2002 FY01: \$77,200 Total: \$152,900
Prin. Invest.: D E WINGET
Tech. Officer: GSFC/J BREDEKAMP
CASE Category: 11 - ASTRONOMY

NAG 5 9829 **UNIV OF TEXAS - AUSTIN** **8823**
 SPACECRAFT RENDEZVOUS NAVIGATION WITH INTEGRATED INS-GPS.
 08/23/2000 - 08/31/2001 FY01: \$0 Total: \$80,382
Prin. Invest.: R H BISHOP
Tech. Officer: GSFC/R CARPENTER
CASE Category: 41 - AERONAUTICAL ENGR

NAG 5 9989 **UNIV OF TEXAS - AUSTIN** **8824**
 EARTH SYSTEM DYNAMICS: THE DETERMINATION & INTERPRETATION OF THE GLOBAL ANGULAR MOMENTUM BUDGET USING
 09/21/2000 - 03/31/2002 FY01: \$540,000 Total: \$1,087,000
Prin. Invest.: B D TAPLEY
Tech. Officer: GSFC/J LABRECQUE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10121 **UNIV OF TEXAS - AUSTIN** **8825**
 20TH TEXAS SYMPOSIUM ON RELATIVISTIC ASTROPHYSICS
 11/28/2000 - 05/31/2001 FY01: \$15,000 Total: \$15,000
Prin. Invest.: J C WHEELER
Tech. Officer: GSFC/L KALUZIENSKI
CASE Category: 11 - ASTRONOMY

NAG 5 10183 **UNIV OF TEXAS - AUSTIN** **8826**
 ASTROMETRY OF NEW & UNDER-OBSERVED NEAR-EARTH-OBJECTS-(NEOS) AT MCDONALD OBSERVATORY
 01/22/2001 - 01/31/2002 FY01: \$99,400 Total: \$99,400
Prin. Invest.: E BARKER
Tech. Officer: GSFC/T MORGAN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10195 **UNIV OF TEXAS - AUSTIN** **8827**
 GENERAL RELATIVISTIC & GRAVITATIONAL PHYSICS PARAMETERS FROM LUNAR LASER RANGING DATA
 12/28/2000 - 12/31/2001 FY01: \$50,000 Total: \$50,000
Prin. Invest.: P J SHELUS
Tech. Officer: GSFC/P CRANE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10435 **UNIV OF TEXAS - AUSTIN** **8828**
 GROUND BASED STUDIES OF THE OUTER PLANETS
 02/20/2001 - 02/28/2002 FY01: \$130,600 Total: \$130,600
Prin. Invest.: L TRAFTON
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 - ASTRONOMY

NAG 5 10458 **UNIV OF TEXAS - AUSTIN** **8829**
 INFRARED SPECTRAL SURVEY OF YOUNG STELLAR/PLANETARY SYSTEMS WITH SUB-AU SPATIAL RESOLUTION
 02/26/2001 - 02/28/2002 FY01: \$35,000 Total: \$35,000
Prin. Invest.: P HARVEY
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 10488 **UNIV OF TEXAS - AUSTIN** **8830**
 FROM MOLECULAR CLOUD CORE TO PROTOPLANETARY DISK: TRACING THE MASS
 02/27/2001 - 02/28/2002 FY01: \$60,000 Total: \$60,000
Prin. Invest.: N J EVANS, II
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 10766 **UNIV OF TEXAS - AUSTIN** **8831**
 JETS FROM NEUTRON STARS (ATP-2000)
 04/23/2001 - 04/30/2002 FY01: \$53,900 Total: \$53,900
Prin. Invest.: J WHEELER
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 10767 **UNIV OF TEXAS - AUSTIN** **8832**
 SUPPLEMENT FOR THEORY POSTDOC (ATP-2000)
 05/03/2001 - 04/30/2002 FY01: \$16,000 Total: \$16,000
Prin. Invest.: J WHEELER
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 10825 **UNIV OF TEXAS - AUSTIN** **8833**
 REIONIZATION OF THE UNIVERSE (ATP - 2000)
 05/01/2001 - 05/14/2002 FY01: \$111,390 Total: \$111,390
Prin. Invest.: P R SHAPIRO
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 10826 **UNIV OF TEXAS - AUSTIN** **8834**
 FORMATION OF STAR CLUSTERS (ATP - 2000)
 05/01/2001 - 05/14/2002 FY01: \$79,332 Total: \$79,332
Prin. Invest.: H MARTEL
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 11203 **UNIV OF TEXAS - AUSTIN** **8835**
 SATELLITE LASER RANGING DATA ANALYSIS AND QUALITY CONTROL
 08/09/2001 - 08/14/2004 FY01: \$50,000 Total: \$50,000
Prin. Invest.: R J EANES
Tech. Officer: GSFC/D L CARTER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 11278 **UNIV OF TEXAS - AUSTIN** **8836**
 DECENTRALIZED CONTROL FOR SATELLITES
 08/21/2001 - 08/31/2002 FY01: \$86,835 Total: \$86,835
Prin. Invest.: E LIGHTSEY
Tech. Officer: GSFC/J R CARPENTER
CASE Category: 41 - AERONAUTICAL ENGR

NAG 8 1764 **UNIV OF TEXAS - AUSTIN** **8837**
 SEARCH FOR TIME REVERALS SYMETRY VIOLATION WITH LASER-COOLED
 ATOMS
 05/01/2001 - 04/30/2005 FY01: \$80,000 Total: \$80,000
Prin. Invest.: D J HEINZMAN
Tech. Officer: MSFC/D HUBBARD
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 9 841 **UNIV OF TEXAS - AUSTIN** **8838**
 DESIGN OF AUTOMATIC CONTROL FOR HUMAN/LCG THERMAL INTERAC-
 TION
 09/25/1995 - 10/25/1999 FY01: -\$4,778 Total: \$128,829
Prin. Invest.: K R DILLER
Tech. Officer: JSC/C LIN
CASE Category: 46 - MECHANICAL ENGR

NAG 9 994 **UNIV OF TEXAS - AUSTIN** **8839**
 1998 NASA REDUCED GRAVITY STUDENT FLIGHT OPS
 02/23/1998 - 01/31/2001 FY01: \$0 Total: \$606,263
Prin. Invest.: B D TAPLEY, B O FORT
Tech. Officer: JSC/D G SICKKOREZ, JSC/N G ROBERTSON
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 9 1060 **UNIV OF TEXAS - AUSTIN** **8840**
 NASA STUDENT COMPETITION
 12/14/1998 - 08/31/2002 FY01: \$47,000 Total: \$161,029
Prin. Invest.: B D TAPLEY
Tech. Officer: JSC/H C MANDELL
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 9 1117 **UNIV OF TEXAS - AUSTIN** **8841**
 DEVELOP SINGLE COMPUTATIONAL APPROACH TO
 05/24/1999 - 05/26/2000 FY01: \$0 Total: \$14,000
Prin. Invest.: D B GOLDSTEIN, P L VARGHESE
Tech. Officer: JSC/F E LUMPKIN
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 9 1124 **UNIV OF TEXAS - AUSTIN** **8842**
 X381CRV GPS RECEIVER SUPPORT
 07/01/1999 - 12/31/1999 FY01: -\$3,295 Total: \$42,917
Prin. Invest.: G E LIGHTSEY
Tech. Officer: JSC/G C BLACKBURN, JSC/K W DUNN
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 9 1187 **UNIV OF TEXAS - AUSTIN** **8843**
 INTERNATIONAL SPACE STATION GPS RECEIVER SUPPORT
 02/02/2000 - 01/31/2002 FY01: \$97,443 Total: \$197,271
Prin. Invest.: G E LIGHTSEY
Tech. Officer: JSC/G C BLACKBURN, JSC/J M COX
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 9 1189 **UNIV OF TEXAS - AUSTIN** **8844**
 NAVIGATION SYSTEMS AND TECHNOLOGY LAB
 01/28/2000 - 12/31/2002 FY01: \$100,720 Total: \$198,377
Prin. Invest.: G LIGHTSEY
Tech. Officer: JSC/J W BELL
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 9 1213 **UNIV OF TEXAS - AUSTIN** **8845**
 ANALYSIS AND MEASUREMENT OF THERMAL INSULATION PROPERNES OF
 EVAC HOLLOW FIBERS
 03/01/2000 - 05/31/2001 FY01: \$0 Total: \$37,718
Prin. Invest.: H L PAUL, K R DILLER
Tech. Officer: JSC/L A TREVINO
CASE Category: 46 - MECHANICAL ENGR

NAG 9 1225 **UNIV OF TEXAS - AUSTIN** **8846**
 MARS PRECISION LANDING TASK
 04/13/2000 - 09/30/2002 FY01: \$145,500 Total: \$247,503
Prin. Invest.: R BISHOP
Tech. Officer: JSC/E M BRADEN
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 9 1244 **UNIV OF TEXAS - AUSTIN** **8847**
 HYBIRD PARTICLE ELEMENT SIMULATION OF IMPACT ON COMPOSITE
 ORBITAL DEBRIS SHIELDS
 07/11/2000 - 06/30/2002 FY01: \$52,000 Total: \$123,539
Prin. Invest.: E P FAHRENTHOLD
Tech. Officer: JSC/E L CHRISTIANSEN, JSC/J H KERR
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 9 1275 **UNIV OF TEXAS - AUSTIN** **8848**
 CULTURAL AND PERSONALITY DETERMINANTS OF PERFORMANCE AND
 ERROR MANAGMENT
 02/22/2001 - 01/31/2003 FY01: \$137,548 Total: \$137,548
Prin. Invest.: R L HELMREICH
Tech. Officer: JSC/C LLOYD
CASE Category: 56 - MEDICL

NAG 9 1286 **UNIV OF TEXAS - AUSTIN** **8849**
 NASA REDUCED GRAVEITY STUDENT FLIGHT CAMPAIGN 2001
 03/05/2001 - 12/31/2001 FY01: \$405,444 Total: \$405,444
Prin. Invest.: B D TAPLEY
Tech. Officer: JSC/D SICKKOREZ
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 9 1323 **UNIV OF TEXAS - AUSTIN** **8850**
 LOW THRUST CAPTURE INVESTIGATION
 06/13/2001 - 10/31/2001 FY01: \$20,000 Total: \$20,000
Prin. Invest.: R BISHOP
Tech. Officer: JSC/T CRANE
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG10 202 **UNIV OF TEXAS - AUSTIN** **8851**
 EARLY DEVELOPMENT OF FERN GAMETOPHYTES IN MICROSCAVITY
 10/16/1996 - 12/31/2000 FY01: \$0 Total: \$400,625
Prin. Invest.: S J POUX
Tech. Officer: KSC/W M KNOTT
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG10 288 **UNIV OF TEXAS - AUSTIN** **8852**
 MAG-LEV LAUNCH ASSIST TECHNOLOGY DEMONSTRATOR MAG-LEV
 LAUNCH ASSIST TECHNOLOGY DEMONSTRATOR
 07/17/2000 - 03/31/2001 FY01: \$0 Total: \$94,998
Prin. Invest.: R ZOWARKA
Tech. Officer: KSC/F ADAMS
CASE Category: 45 - ELECTRICAL ENGR

<p>NAG10 295 UNIV OF TEXAS - AUSTIN 8853 EARLY DEVELOPMENT OF FERN GAMETOPHYTES IN MICROGRA VITY 02/05/2001 - 04/30/2005 FY01: \$30,000 Total: \$30,000 <i>Prin. Invest.:</i> D ROUX <i>Tech. Officer:</i> KSC/D SCHULTZ <i>CASE Category:</i> 51 - BIOLOGY (EXCLUDING ENVIR)</p>	<p>NAS 5 99005 UNIV OF TEXAS - AUSTIN 8861 GLAS SCIENCE TEAM LEADER. 11/25/1998 - 12/01/2002 FY01: \$1,455,000 Total: \$3,505,000 <i>Prin. Invest.:</i> R SCHUTZ <i>Tech. Officer:</i> GSFC/G SMITH <i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE</p>
<p>NAS 3 00119 UNIV OF TEXAS - AUSTIN 8854 FLYWHEEL ROTOR HEALTH MONITORING RESEARCH & DEVELO PMENT 04/26/2000 - 04/25/2003 FY01: \$85,000 Total: \$115,000 <i>Prin. Invest.:</i> J BENO <i>Tech. Officer:</i> GRC/K MCLALLIN <i>CASE Category:</i> 49 - ENGINEERING, OTHER</p>	<p>NCC 1 303 UNIV OF TEXAS - AUSTIN 8862 DURABILITY OF SANDWICH STRUCTURES 06/04/1998 - 04/30/2000 FY01: -\$3,593 Total: \$110,324 <i>Prin. Invest.:</i> K LIECHTI, S KYRIAKIDES <i>Tech. Officer:</i> LARC/T S GRITES <i>CASE Category:</i> 41 - AERONAUTICAL ENGR</p>
<p>NAS 3 00135 UNIV OF TEXAS - AUSTIN 8855 DC-DC HIGH VOLTAGE CONVERTER TECHNOLOGY DEMONSTRAT ION 05/25/2000 - 11/24/2000 FY01: \$0 Total: \$168,618 <i>Prin. Invest.:</i> W A WALLS <i>Tech. Officer:</i> GRC/P GEORGE <i>CASE Category:</i> 49 - ENGINEERING, OTHER</p>	<p>NCC 3 677 UNIV OF TEXAS - AUSTIN 8863 INVESTIGATION OF STRAIN/VORTICITY AND LARGE-SCALE FLOW STRUC- TURE IN TURBULENT NONPREMIXED JET FLAMES 02/26/1999 - 01/13/2003 FY01: \$118,540 Total: \$292,697 <i>Prin. Invest.:</i> N T CLEMENS <i>Tech. Officer:</i> GRC/K SACKSTEDER <i>CASE Category:</i> 49 - ENGINEERING, OTHER</p>
<p>NAS 3 01133 UNIV OF TEXAS - AUSTIN 8856 FLYWHEEL ARBOR DEVELOPMENT 05/30/2001 - 05/29/2002 FY01: \$357,000 Total: \$357,000 <i>Prin. Invest.:</i> R H BENO, R THOMPSON <i>Tech. Officer:</i> GRC/K L MCLALLIN <i>CASE Category:</i> 46 - MECHANICAL ENGR</p>	<p>NCC 5 154 UNIV OF TEXAS - AUSTIN 8864 GRAND CHALLENGE RESEARCH 08/21/1996 - 06/30/2000 FY01: \$0 Total: \$900,000 <i>Prin. Invest.:</i> G CAREY <i>Tech. Officer:</i> GSFC/J R FISCHER <i>CASE Category:</i> 29 - MATH/COMPUTER SCI, OTHER</p>
<p>NAS 3 99169 UNIV OF TEXAS - AUSTIN 8857 FLYWHEEL ROTOR HUB AND RIM HARDWARE FOR THE ACESE FOR ISS 07/08/1999 - 03/07/2002 FY01: \$1,751,233 Total: \$3,656,324 <i>Prin. Invest.:</i> J H BENO, R C THOMPSON <i>Tech. Officer:</i> JSC/K KONNO <i>CASE Category:</i> 46 - MECHANICAL ENGR</p>	<p>NCC 5 463 UNIV OF TEXAS - AUSTIN 8865 EVALUATION AND VALIDATION OF EO-1 AND LANDSAT 7 IMAGERY THROUGH AN ANALYSIS OF LAND COVER/LAND USE 02/29/2000 - 12/31/2001 FY01: \$166,237 Total: \$206,250 <i>Prin. Invest.:</i> W A WHITE <i>Tech. Officer:</i> GSFC/S G UNGAR <i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER</p>
<p>NAS 5 01096 UNIV OF TEXAS - AUSTIN 8858 MCDONALD LASER RANGING STATION SUPPORT SERVICES 03/01/2001 - 02/28/2004 FY01: \$307,000 Total: \$307,000 <i>Prin. Invest.:</i> P J SHELUS <i>Tech. Officer:</i> GSFC/D L CARTER <i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER</p>	<p>NCC 9 73 UNIV OF TEXAS - AUSTIN 8866 SIMULATION OF HYPERVELOCITY IMPACT ON AL-NEXTEL KEVLOR ORBITAL DEBRIS SHIELDS 08/10/1998 - 06/30/2000 FY01: -\$194 Total: \$81,558 <i>Prin. Invest.:</i> E P FAHRENTHOLD <i>Tech. Officer:</i> JSC/E L CHRISTIANSEN <i>CASE Category:</i> 29 - MATH/COMPUTER SCI, OTHER</p>
<p>NAS 5 32997 UNIV OF TEXAS - AUSTIN 8859 OPERATION, MAINTENANCE AND ENGINEERING DEVELOPMENT OF THE UNIV OF TX LASER RANGING STATION 04/17/1996 - 02/28/2001 FY01: \$135,000 Total: \$2,258,846 <i>Prin. Invest.:</i> P J SHELUS, R RICKLETS, J WIANT <i>Tech. Officer:</i> GSFC/J MCGARRY <i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER</p>	<p>NGT 1 52147 UNIV OF TEXAS - AUSTIN 8867 GRADUATE STUDENT RESEARCH PROGRAM (GSRP) 07/26/1996 - 12/31/2001 FY01: \$12,000 Total: \$110,001 <i>Prin. Invest.:</i> W T FOWLER <i>Tech. Officer:</i> LARC/T A TOLAY <i>CASE Category:</i> 41 - AERONAUTICAL ENGR</p>
<p>NAS 5 97213 UNIV OF TEXAS - AUSTIN 8860 GRAVITY RECOVERY AND CLIMATE EXPERIMENT (GRACE) 08/12/1997 - 06/12/2006 FY01: \$1,841,500 Total: \$6,286,000 <i>Prin. Invest.:</i> B TAPLEY <i>Tech. Officer:</i> GSFC/R FITZGERALD <i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER</p>	<p>NGT 5 72 UNIV OF TEXAS - AUSTIN 8868 GSRP TRAINING GRANT - PAUL THOMPSON - MASS DISTRIB UTION IN THE EARTH'S SYSTEMS: SPACE GEODETIC MEA 06/04/1998 - 08/31/2001 FY01: \$0 Total: \$66,000 <i>Prin. Invest.:</i> B D TAPLEY <i>Prin. Invest.:</i> NONE <i>Tech. Officer:</i> GSFC/G S SOFFEN <i>CASE Category:</i> 41 - AERONAUTICAL ENGR</p>

NGT 5 81	UNIV OF TEXAS - AUSTIN	8869	NGT 9 20	UNIV OF TEXAS - AUSTIN	8877
A STUDY OF LAND/ATMOSPHERE INTERACTIONS IN THE DEV ELOPMENT OF MESOSCALE CONVECTIVE SYSTEMS USING A			TRAINING GRANT		
05/11/1999 - 08/31/2000	FY01: \$0	Total: \$22,000	07/08/1999 - 08/31/2002	FY01: \$22,000	Total: \$66,000
<i>Prin. Invest.:</i> J S FAMIGLIETTI			<i>Prin. Invest.:</i> R H BISHOP		
<i>Tech. Officer:</i> GSFC/M S BURRELL			<i>Tech. Officer:</i> JSC/D J PEARSON		
<i>CASE Category:</i> 32 - GEOLOGICAL SCIENCE			<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER		
NGT 5 30162	UNIV OF TEXAS - AUSTIN	8870	NGT 9 35	UNIV OF TEXAS - AUSTIN	8878
ESTIMATING CHANGES IN CONTINENTAL WATER STORAGE FR OM SATELLITE OBSERVA- TIONS OF THETIME DEPENDENT			TRAINING GRANT		
08/31/1998 - 08/31/2001	FY01: \$0	Total: \$66,000	06/04/1998 - 12/31/2000	FY01: \$0	Total: \$44,000
<i>Prin. Invest.:</i> J S FAMIGLIETTI, ROD			<i>Prin. Invest.:</i> R H BISHOP		
<i>Tech. Officer:</i> GSFC/M WEI			<i>Tech. Officer:</i> JSC/B COCKRELL		
<i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER			<i>CASE Category:</i> 22 - COMPUTER SCIENCE		
NGT 5 40053	UNIV OF TEXAS - AUSTIN	8871	NAG 5 4187	UNIV OF TEXAS - DALLAS	8879
TEXAS SPACE GRANT CONSORTUM & GLOBE TEACHER TRAINI			DEVELOPMENT AND DEMONSTRATION OF A ROBUST MICRO-EL PRES- SURE TRANSDUCER FOR LOW ALTITUDE SATELLITE AN		
02/12/1997 - 01/31/2001	FY01: -\$29,600	Total: \$2,060,783	04/01/1997 - 10/30/2000	FY01: \$0	Total: \$183,721
<i>Prin. Invest.:</i> B D TAPLEY			<i>Prin. Invest.:</i> D D EARLE <i>Prin. Invest.:</i> NONE		
<i>Tech. Officer:</i> GSFC/D D DETROYE			<i>Tech. Officer:</i> GSFC/M M MELLOTT		
<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER			<i>CASE Category:</i> 13 - PHYSICS		
NGT 5 40083	UNIV OF TEXAS - AUSTIN	8872	NAG 5 4465	UNIV OF TEXAS - DALLAS	8880
TEXAS SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM			THE SPATIAL DISTRIBUTION OF IONOSPHERIC PLASMA AND IGH LATITUDES		
02/09/2001 - 01/31/2002	FY01: \$504,600	Total: \$504,600	05/27/1997 - 04/30/2001	FY01: \$0	Total: \$282,115
<i>Prin. Invest.:</i> B TAPLEY			<i>Prin. Invest.:</i> D A HEELIS		
<i>Tech. Officer:</i> GSFC/D D DETROYE			<i>Tech. Officer:</i> GSFC/M M MELLOTT		
<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER			<i>CASE Category:</i> 13 - PHYSICS		
NGT 5 50239	UNIV OF TEXAS - AUSTIN	8873	NAG 5 5257	UNIV OF TEXAS - DALLAS	8881
IMPROVED ESTIMATION OF SURFACE TOPOGRAPHY & VEGETA TION STRUCTURE BY COMBINING INTERFEROMETRIC SAR			A SEQUENTIAL ROCKET INVESTIGATION OF WINDS AND PLASMA LAYERS IN THE NIGHTTIME E-REGION		
06/03/1999 - 06/30/2002	FY01: \$22,000	Total: \$66,000	02/28/2000 - 02/21/2003	FY01: \$396,987	Total: \$728,087
<i>Prin. Invest.:</i> M CRAWFORD			<i>Prin. Invest.:</i> G D EARLE		
<i>Tech. Officer:</i> GSFC/K BLANDING			<i>Tech. Officer:</i> GSFC/W B JOHNSON		
<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER			<i>CASE Category:</i> 13 - PHYSICS		
NGT 5 50301	UNIV OF TEXAS - AUSTIN	8874	NAG 5 9297	UNIV OF TEXAS - DALLAS	8882
GALAXY EVOLUTION AT REDSHIFTS OF Z=1-2			A WEB-BASED DISTRIBUTION OF IONOSPHERIC THERMAL PLASMA DATA FROM THE DMSP SPACECRAFT		
06/29/2000 - 06/30/2002	FY01: \$22,000	Total: \$44,000	04/17/2000 - 04/30/2002	FY01: \$80,000	Total: \$155,000
<i>Prin. Invest.:</i> G J HILL			<i>Prin. Invest.:</i> M HAIRSTON		
<i>Tech. Officer:</i> GSFC/L SMITH			<i>Tech. Officer:</i> GSFC/J BREDEKAMP		
<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER			<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER		
NGT 5 50361	UNIV OF TEXAS - AUSTIN	8875	NAG 5 9476	UNIV OF TEXAS - DALLAS	8883
AUTONOMOUS RENDEZVOUS BETWEEN MULTIPLE SPACECRAFT IN A CENTRAL BODY GRAVITY FIELD WITH DETAILED SENS			TURBO CODES & THEIR APPLICATION IN MOBILE SYSTEMS		
05/31/2001 - 08/31/2002	FY01: \$22,000	Total: \$22,000	04/24/2000 - 04/30/2002	FY01: \$50,000	Total: \$99,999
<i>Prin. Invest.:</i> C OCAMPO			<i>Prin. Invest.:</i> J P FONSEKA		
<i>Tech. Officer:</i> GSFC/K BLANDING			<i>Tech. Officer:</i> GSFC/P H YEH		
<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER			<i>CASE Category:</i> 49 - ENGINEERING, OTHER		
NGT 5 50371	UNIV OF TEXAS - AUSTIN	8876	NAG 5 10271	UNIV OF TEXAS - DALLAS	8884
RNAI ANALYSIS OF GRAVIRY SIGNAL TRANSDUCTION IN CERATOPERIS RICHARDII			A MODEL OF IONOSPHERIC VELOCITY STRYUCTURE IN THE HIGH LATITUDE F-REGION		
06/13/2001 - 07/31/2002	FY01: \$22,000	Total: \$22,000	01/08/2001 - 01/31/2002	FY01: \$64,902	Total: \$64,902
<i>Prin. Invest.:</i> S ROUX, NONE			<i>Prin. Invest.:</i> R HEELIS		
<i>Tech. Officer:</i> GSFC/K BLANDING			<i>Tech. Officer:</i> GSFC/M MELLOTT		
<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER			<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER		

NAG 5 10335 **UNIV OF TEXAS - DALLAS** **8885**
 DEVELOPMENT OF A RAM WIND SENSOR FOR PLANETARY THERMO-
 SPHERIC STUDIES-PROPOSAL #273
 02/06/2001 - 12/31/2001 FY01: \$329,980 Total: \$329,980
Prin. Invest.: G D EARLE
Tech. Officer: GSFC/C STAHL
CASE Category: 13 - PHYSICS

NAS 5 01068 **UNIV OF TEXAS - DALLAS** **8886**
 THE COUPLED ION-NEUTRAL DYNAMICS INVESTIGATION.
 12/13/2000 - 12/31/2005 FY01: \$1,275,000 Total: \$1,275,000
Prin. Invest.: R A HEELIS
Tech. Officer: GSFC/J BYRD
CASE Category: 11 - ASTRONOMY

NGT 5 50354 **UNIV OF TEXAS - DALLAS** **8887**
 LOW-LATITUDE IONOSPHERIC PLASMA DEPLETION: STRUTURE AND
 DYNAMICS
 05/11/2001 - 05/14/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: R A HEELIS
Tech. Officer: GSFC/M E MELLOTT
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 2 1012 **UNIV OF TEXAS - EL PASO** **8888**
 MONITORING SOFTWARE THROUGH INTEGRITY CONSTRAINTS
 09/21/1995 - 08/31/2000 FY01: \$0 Total: \$180,487
Prin. Invest.: A Q GATES
Tech. Officer: ARC/M R LOWRY, ARC/G S LEE
CASE Category: 22 - COMPUTER SCIENCE

NAG 2 1138 **UNIV OF TEXAS - EL PASO** **8889**
 VERIFICATION OF NASA MISSION-CRITICAL SOFTWARE WIT HOUT
 SACRIFICING PERFORMANCE
 07/14/1997 - 06/30/2001 FY01: \$0 Total: \$199,887
Prin. Invest.: P J TELLER
Tech. Officer: ARC/LOWRY
CASE Category: 45 - ELECTRICAL ENGR

NAG 3 1820 **UNIV OF TEXAS - EL PASO** **8890**
 NOVEL CDS-CTDE SOLAR CELL STRUCTURES ON FLEXIBLE METAL FOIL
 SUBSTRATES
 04/16/1996 - 04/15/2000 FY01: -\$402 Total: \$263,838
Prin. Invest.: V P SINGH, J C MCCLURE, G B LUSH
Tech. Officer: GRC/E B CLARK
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 3 2303 **UNIV OF TEXAS - EL PASO** **8891**
 THIN-FILM SOLAR CELLS FOR SPACE APPLICATION THIN-FILM SOLAR
 CELLS FOR SPACE APPLICATION
 11/23/1999 - 10/28/2002 FY01: \$199,449 Total: \$399,394
Prin. Invest.: G B LUSH
Tech. Officer: GRC/A HEPP
CASE Category: 45 - ELECTRICAL ENGR

NAG 4 150 **UNIV OF TEXAS - EL PASO** **8892**
 (FAR) AN IMAGING FRAMEWORK FOR AERODYNAMIC, FLUID MECHANIC,
 AND HEAT TRANSFER SCIENTIFIC-GRADE
 03/03/1998 - 02/27/2001 FY01: \$0 Total: \$294,177
Prin. Invest.: R WICKER
Tech. Officer: DFRC/J BRADEN, DFRC/K K GUPTA
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 6163 **UNIV OF TEXAS - EL PASO** **8893**
 INTRODUCTORY TRAINING FOR PRE-SERVICE TEACHERS IN
 08/01/1997 - 07/31/2000 FY01: \$0 Total: \$60,000
Prin. Invest.: V HARDER
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8881 **UNIV OF TEXAS - EL PASO** **8894**
 DATA ASSIMILATIVE ANALYSIS OF THE GGS DATA SET USING GLOBAL
 SIMULATIONS
 11/30/1999 - 05/31/2001 FY01: \$0 Total: \$18,070
Prin. Invest.: D E LOPEZ
Tech. Officer: GSFC/D EVANS
CASE Category: 13 - PHYSICS

NAG 5 8882 **UNIV OF TEXAS - EL PASO** **8895**
 SCIENCE EDUCATIONAL INSTRUCTIONAL MATERIALS FOR ISTP/SOLARMAX
 11/30/1999 - 01/14/2002 FY01: \$0 Total: \$53,228
Prin. Invest.: R E LOPEZ
Tech. Officer: GSFC/M H ACUNA
CASE Category: 13 - PHYSICS

NAG 5 8883 **UNIV OF TEXAS - EL PASO** **8896**
 THE ASSIMILATION OF SATELLITE DATA INTO GLOBAL MHD SIMULATIONS
 (SEC GI PROGRAM)
 11/30/1999 - 08/31/2000 FY01: \$0 Total: \$8,275
Prin. Invest.: R E LOPEZ
Tech. Officer: GSFC/M H ACUNA
CASE Category: 13 - PHYSICS

NAG 5 9213 **UNIV OF TEXAS - EL PASO** **8897**
 PROBING NEUTRINO-INDUCED NUCLEOSYNTHESIS FROM THE ABUN-
 DANCES OF FLUORINEBORON, LITHIUM, & OXYGEN
 03/23/2000 - 03/31/2002 FY01: \$95,985 Total: \$180,925
Prin. Invest.: V E SMITH
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9542 **UNIV OF TEXAS - EL PASO** **8898**
 REMOTE SENSING SPECTRAL IDENTIFICATION OF FRESHWATER
 PLANKTON
 05/09/2000 - 05/14/2002 FY01: \$99,957 Total: \$199,849
Prin. Invest.: D SCHULZ-MAKUCH
Tech. Officer: GSFC/D MENCHAN
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 10151 **UNIV OF TEXAS - EL PASO** **8899**
 CONNECTING SUN CITY WITH SUN-EARTH CONNECTIONS
 01/03/2001 - 12/31/2001 FY01: \$223,990 Total: \$223,990
Prin. Invest.: R LOPEZ
Tech. Officer: GSFC/P SAKIMOTO
CASE Category: 11 - ASTRONOMY

NAG 5 10507 **UNIV OF TEXAS - EL PASO** **8900**
 STUDIES OF SOLAR WIND-MAGNETOSPHERE COUPLING THRU DETAILED
 COMPARISON OF OBSERVATIONS & RESULTS
 03/01/2001 - 02/28/2002 FY01: \$95,916 Total: \$95,916
Prin. Invest.: R LOPEZ
Tech. Officer: GSFC/J SPANN
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 9 1064 UNIV OF TEXAS AT BROWNSVILLE 8917
 NRA PACE/MSET BLAST-OFF TO AN ENGINEERING CAREER
 01/07/1999 – 01/06/2002 FY01: \$100,000 Total: \$300,000
Prin. Invest.: W WELLS
Tech. Officer: JSC/L ARMENDARIZ
CASE Category: 49 – ENGINEERING, OTHER

NAG 9 1238 UNIV OF TEXAS AT BROWNSVILLE 8918
 SOUTH TEXAS ENGINEERING MATH & SCIENCE PROGRAM
 06/15/2000 – 05/18/2001 FY01: \$0 Total: \$4,000
Prin. Invest.: J GARCIA
Tech. Officer: JSC/L ARMENDARIZ
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 9 1304 UNIV OF TEXAS AT BROWNSVILLE 8919
 PRE MATH SCIENCE ENGINEERING & TECH SPT (MSET)
 05/18/2001 – 08/26/2002 FY01: \$25,000 Total: \$25,000
Prin. Invest.: A RIVAS
Tech. Officer: JSC/L ARMENDARIZ
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NCC 5 438 UNIV OF TEXAS AT BROWNSVILLE 8920
 C+P=M2T: SOUTH TEXAS MASTER MATHEMATICS TEACHER PREPARATION
 PROGRAMS
 03/03/2000 – 02/28/2002 FY01: \$35,689 Total: \$231,849
Prin. Invest.: J TELESE
Tech. Officer: GSFC/B WHITE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 2 1383 UNIV OF TEXAS AT SAN ANTONIO 8921
 PARALLEL AERODYNAMICS SIMULATION IN DISTRIBUTED ENVIRONMENTS
 09/14/1999 – 08/31/2002 FY01: \$0 Total: \$194,961
Prin. Invest.: A T CHRONPOULOS
Tech. Officer: ARC/B J COLLINS, ARC/G S LEE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 2 6040 UNIV OF TEXAS AT SAN ANTONIO 8922
 CHANGING THE PARADIGM; PREPARING STUDENTS FOR THE COMPUTING
 PROFESSION IN THE 21ST CENTURY
 12/15/1999 – 02/28/2002 FY01: \$100,000 Total: \$190,713
Prin. Invest.: R F SINCOVEC
Tech. Officer: ARC/M J LEON
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 3 2297 UNIV OF TEXAS AT SAN ANTONIO 8923
 PARTNERSHIP IN PROBABILISTIC STRUCTURAL ANALYSIS METHODS
 10/05/1999 – 08/31/2002 FY01: \$100,000 Total: \$200,000
Prin. Invest.: R D MANTEUFEL
Tech. Officer: GRC/C CHAMIS
CASE Category: 41 – AERONAUTICAL ENGR

NAG 8 1720 UNIV OF TEXAS AT SAN ANTONIO 8924
 LATIN HYPERCUBE SAMPLING IN RELIABILITY ANALYSIS
 06/07/2000 – 06/06/2003 FY01: \$96,084 Total: \$192,102
Prin. Invest.: R MANTUEFEL
Tech. Officer: MSFC/F SAFIE
CASE Category: 49 – ENGINEERING, OTHER

NAG 9 950 UNIV OF TEXAS AT SAN ANTONIO 8925
 TEXAS PREFRESHMAN ENGINEERING PROGRAM
 07/16/1997 – 09/26/2001 FY01: \$0 Total: \$792,812
Prin. Invest.: M P BERRIOZABAL
Tech. Officer: JSC/L ARMENDARIZ
CASE Category: 21 – MATHEMATICS

NAG 9 1301 UNIV OF TEXAS AT SAN ANTONIO 8926
 TEXAS PREFRESHMAN ENGINEERING (TEXPREP) 2001
 05/08/2001 – 08/28/2002 FY01: \$198,000 Total: \$198,000
Prin. Invest.: M P BERRIOZABAL
Tech. Officer: JSC/L M ARMENDARIZ
CASE Category: 21 – MATHEMATICS

NAG 9 1382 UNIV OF TEXAS AT TYLER 8927
 CFD ANALYSIS OF LASER-ABLATION CARBON NANOTUBE PRODUCTION
 09/17/2001 – 08/31/2002 FY01: \$15,000 Total: \$15,000
Prin. Invest.: R B GREENDYKE
Tech. Officer: JSC/C D SCOTT
CASE Category: 46 – MECHANICAL ENGR

NCC 5 465 UNIV OF THE INCARNATE WORD 8928
 INTEGRATING MATH AND SCIENCE FOR PRE-SERVICE & IN-SERVICE
 PARTNERSHIPS
 03/08/2000 – 02/28/2003 FY01: \$140,048 Total: \$280,180
Prin. Invest.: J BEAUFORD
Tech. Officer: GSFC/B WHITE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

UTAH

NAG 4 215 BRIGHAM YOUNG UNIV 8929
 ROBUST COMMAND LINKS FOR FLIGHT TERMINATION ROBUST COMMAND
 LINKS FOR FLIGHT TERMINATION
 10/30/2000 – 09/30/2001 FY01: \$72,034 Total: \$72,034
Prin. Invest.: M D RICE
Tech. Officer: DFRC/R D SAKAHARA
CASE Category: 45 – ELECTRICAL ENGR

NAG 5 7711 BRIGHAM YOUNG UNIV 8930
 FDG FOR 'GEOLOGIC AND ARCHAEOLOGIC APPLICATIONS OF HIGH-RES-
 OLUTION SAR' PI:DAVID V. ARNOLD, SENH98
 09/28/1998 – 09/30/2002 FY01: \$187,310 Total: \$374,778
Prin. Invest.: D V ARNOLD
Tech. Officer: GSFC/H V FREY
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 8746 BRIGHAM YOUNG UNIV 8931
 POLAR ICE SHEET MONITORING FROM LONG TERM SCATTEROMETER
 AND RADIOMETER OBSERVATIONS
 08/18/1999 – 08/31/2002 FY01: \$90,086 Total: \$266,355
Prin. Invest.: D LONG
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 9625 BRIGHAM YOUNG UNIV 8932
 SCATTEROMETER CLIMATE RECORD PATHFINDER
 05/23/2000 – 04/30/2002 FY01: \$160,333 Total: \$265,000
Prin. Invest.: D LONG
Tech. Officer: GSFC/J DODGE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 9638 **BRIGHAM YOUNG UNIV** **8933**
 SYNERGISTIC USE OF TRMM AND SEAWINDS DATA
 06/08/2000 – 11/30/2001 FY01: \$50,000 Total: \$64,583
Prin. Invest.: D G LONG
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 8 52877 **BRIGHAM YOUNG UNIV** **8934**
 HEAT ADDITION IN A FIXED GEOMETRY SCRAMJET ENGINE.
 08/24/1999 – 08/14/2001 FY01: \$0 Total: \$44,000
Prin. Invest.: R DAINES
Tech. Officer: MSFC/J DOWDY
CASE Category: 46 – MECHANICAL ENGR

NAG 1 2048 **UNIV OF UTAH** **8935**
 CLOUD SCALE NUMERICAL MODELING OF THE ARCTIC BOUND ARY LAYER
 04/01/1998 – 06/30/2001 FY01: \$1 Total: \$256,654
Prin. Invest.: S K KRUEGER
Tech. Officer: LARC/D S MCDUGAL, LARC/J RAPER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 2083 **UNIV OF UTAH** **8936**
 FACILITY FOR ATMOSPHERIC REMOTE SENSING (FARS) CIRRUS
 MEASUREMENTS FOR FIRE III
 06/30/1998 – 05/31/2001 FY01: \$1 Total: \$171,001
Prin. Invest.: K SASSON
Tech. Officer: LARC/V E DELNORE, LARC/J L RAPER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 2250 **UNIV OF UTAH** **8937**
 USING GRIOND-BASED MEASUREMENTS AND RETRIEVALS TO VALIDATE
 SATELLITE DATA
 01/19/2000 – 10/31/2002 FY01: \$73,869 Total: \$134,028
Prin. Invest.: X DONG
Tech. Officer: LARC/P MINNIS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 2319 **UNIV OF UTAH** **8938**
 MOLECULAR DYNAMICS SIMULATIONS OF RANDOM IONOMERS AND
 NANOCOMPOSITES
 07/14/2000 – 06/30/2003 FY01: \$85,473 Total: \$117,438
Prin. Invest.: G D SMITH, M A GLASSER, NONE
Tech. Officer: LARC/J A HINKLEY, LARC/T S GATES
CASE Category: 12 – CHEMISTRY

NAG 2 1444 **UNIV OF UTAH** **8939**
 THE UAV CIRRUS CLOUD MEASUREMENT PROGRAM: A PROPO SAL IN
 SUPPORT THE NASA ESE UAV
 09/27/2000 – 12/31/2000 FY01: \$0 Total: \$90,000
Prin. Invest.: G G MACE, NONE
Tech. Officer: ARC/S S WEGENER, ARC/R S HIPSKIN
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 3 2403 **UNIV OF UTAH** **8940**
 SIMULATION OF COMBUSTION SYSTEMS WITH REALISTIC G- JITTER
 04/26/2000 – 03/22/2003 FY01: \$40,755 Total: \$85,601
Prin. Invest.: D E MELL
Tech. Officer: GRC/H D ROSS
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 2548 **UNIV OF UTAH** **8941**
 SECONDARY FIRES: INITIATION & EXTINGUISHMENT SECONDARY FIRES:
 INITIATION & EXTINGUISHMENT
 02/23/2001 – 11/30/2004 FY01: \$30,001 Total: \$30,001
Prin. Invest.: W MELL
Tech. Officer: GRC/H D ROSS
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 2624 **UNIV OF UTAH** **8942**
 A JOINT SIMULATION AND EXPERIMENTAL STUDY OF NANOC OMPOSITE
 SOLID POLYMERN ELECTROLYTES
 05/25/2001 – 12/31/2003 FY01: \$90,000 Total: \$90,000
Prin. Invest.: G D SMITH
Tech. Officer: GRC/B MCKISSOCK
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 5 3902 **UNIV OF UTAH** **8943**
 ORBITING ARRAY OF WIDE-ANGLE LIGHT COLLECTORS (OWL ORBITING
 "EYES" TO STUDY AIR SHOWERS INITIATED BY
 03/03/1997 – 02/28/2002 FY01: \$0 Total: \$120,646
Prin. Invest.: E C LOH
Tech. Officer: GSFC/L M BARBIER
CASE Category: 11 – ASTRONOMY

NAG 5 4452 **UNIV OF UTAH** **8944**
 RADIATION ANTICARCINOGENESIS BY THIAZOLIDINE PRODR
 05/20/1997 – 02/28/2000 FY01: \$0 Total: \$362,768
Prin. Invest.: R WARTERS
Tech. Officer: GSFC/W SHIMMERLING
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 6458 **UNIV OF UTAH** **8945**
 CLOUD PROPERTY & SURFACE RADIATION OBSERVATIONS & DIAGNOS-
 TICS IN SUPPORT OF EOS, CERES, MODIA & MISR
 10/14/1997 – 03/31/2002 FY01: \$260,627 Total: \$1,735,394
Prin. Invest.: G MACE
Tech. Officer: GSFC/D STARR
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 5 7447 **UNIV OF UTAH** **8946**
 CONTINUED SUPPORT OF THE GCTE FOCUS 1 OFFICE (ECOS YSTEM
 PHYSIOLOGY)
 06/19/1998 – 01/31/2002 FY01: \$151,419 Total: \$450,420
Prin. Invest.: J R EHLERINGER
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 7521 **UNIV OF UTAH** **8947**
 INVESTIGATION OF PHYSICAL PROCESS DYNAMICS DURING COLD
 SEASON FLOODING
 06/18/1998 – 06/14/2001 FY01: \$0 Total: \$37,247
Prin. Invest.: D TARBOTON
Tech. Officer: GSFC/E ENGMAN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 7828 **UNIV OF UTAH** **8948**
 EGRET OBSERVING TIME REQUEST FOR GAMMA-RAY BURSTS
 11/16/1998 – 11/30/1999 FY01: \$0 Total: \$14,997
Prin. Invest.: B J DINGUS
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 – ASTRONOMY

NAG 5 7871 **UNIV OF UTAH** **8949**
 THE GLACIER DYNAMICS AND MASS FLUX OF ANTARCTIC ICE STREAMS
 FROM RADARSAT INSAR
 01/21/1999 - 12/31/2001 FY01: \$49,386 Total: \$146,060
Prin. Invest.: R FORESTER
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8277 **UNIV OF UTAH** **8950**
 ACCRETION ONTO SUPERMASSIVE BLACK HOLES: OBSERVATIONAL
 SIGNALS FROM 3-D33-DIMENSION (ATP 98)
 03/02/1999 - 02/28/2002 FY01: \$44,645 Total: \$109,239
Prin. Invest.: B C BROMLEY
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8339 **UNIV OF UTAH** **8951**
 GLOBAL DISTRIBUTION OF LIGHTNING FROM THE DTD AND RELATE
 GLOBAL DISTRIBUTION OF MCSS FROM TH
 04/26/1999 - 03/31/2001 FY01: \$0 Total: \$142,337
Prin. Invest.: E ZIPSER
Tech. Officer: GSFC/J C DODGE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 8550 **UNIV OF UTAH** **8952**
 THE SPATIAL AND TEMPORAL CHARACTERISTICS OF HIGH LATITUDE
 SEASONAL SNOW MELT AS DETECTED BY PASSIVE
 06/02/1999 - 05/31/2002 FY01: \$0 Total: \$128,886
Prin. Invest.: K JEZEK
Tech. Officer: GSFC/J C DODGE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8561 **UNIV OF UTAH** **8953**
 VALIDATION AND TRANSFERABILITY OF TROPICAL RAIN ESTIMATION
 METHODS
 05/17/1999 - 09/30/2001 FY01: \$0 Total: \$313,521
Prin. Invest.: E J ZIPSER
Tech. Officer: GSFC/R W LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9717 **UNIV OF UTAH** **8954**
 VALIDATION AND TRANSFERABILITY OF TROPICAL LATENT HEATING ESTI-
 MATES
 06/21/2000 - 11/30/2001 FY01: \$172,000 Total: \$217,924
Prin. Invest.: E J ZIPSER
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 10136 **UNIV OF UTAH** **8955**
 SAR ANALYSIS OF THE WESTERN SAINT ELIAS OROGEN, ALASKA
 12/04/2000 - 11/30/2001 FY01: \$46,997 Total: \$46,997
Prin. Invest.: R L BRUHN
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 10682 **UNIV OF UTAH** **8956**
 REMOTE SENSING OF INTENSITY & ORGANIZATION OF CON- VECTION IN
 HURRICANES & TROPICAL CYCLONES BEFORE
 05/10/2001 - 05/14/2002 FY01: \$89,500 Total: \$89,500
Prin. Invest.: E J ZIPSER
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 8 1665 **UNIV OF UTAH** **8957**
 NOVEL MICROSTRUCTURES FOR POLYMER-LIQUID CRYSTAL CO POSITIVE
 MATERIALS
 06/15/2000 - 11/30/2003 FY01: \$104,500 Total: \$154,500
Prin. Invest.: J J MAGDA
Tech. Officer: MSFC/P DOTY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1797 **UNIV OF UTAH** **8958**
 INTENSITY & ORGANIZATION OF CONVECTION IN HURRI- CANES AND
 TROPICAL CYCLONES BEFORE & AFTER LANDFAL
 03/07/2001 - 01/31/2002 FY01: \$45,140 Total: \$45,140
Prin. Invest.: E J ZIPSER
Tech. Officer: MSFC/J ARNOLD
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAS 5 00120 **UNIV OF UTAH** **8959**
 MEASUREMENT OF THE ATMOSPHERIC UV NIGHTGLOW FROM A HIGH
 ALTITUDE BALLON (NIGHTGLOW).
 02/01/2000 - 05/31/2002 FY01: \$52,540 Total: \$102,540
Prin. Invest.: E LOHBER, E LOH
Tech. Officer: GSFC/L BARBIER
CASE Category: 11 - ASTRONOMY

NCC 1 256 **UNIV OF UTAH** **8960**
 DEVELOPMENT OF PREDICTIVE CAPABILITIES FOR DAMAGE TOLERANCE
 IN STITCHED COMPOSITE MATERIALS
 05/01/1997 - 04/30/2001 FY01: -\$1 Total: \$207,021
Prin. Invest.: D O ADAMS
Tech. Officer: LARC/J R REEDERS
CASE Category: 47 - METAL & MATERIALS ENGR

NCC 5 297 **UNIV OF UTAH** **8961**
 CARBON AND OXYGEN ISOTOPE RATIO CO2 FLUX ANALYSES AT THE SOIL,
 CANOPY, AND LANDSCAPE SCALES
 06/16/1998 - 12/31/2001 FY01: \$250,535 Total: \$855,598
Prin. Invest.: J EHLERINGER
Tech. Officer: GSFC/D DEERING
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30184 **UNIV OF UTAH** **8962**
 IMPLICATIONS OF ARCTIC WARMING AS DETERMINED BY SNOWMELT
 ONSET DATES OBSERVED WITH REMOTELY SENSE
 08/19/1999 - 08/31/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: R R FORSTER
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30202 **UNIV OF UTAH** **8963**
 THE O OF ATMOSPHERIC CO2: SEEING THE GRASSLAND THROUGH THE
 BLADES/STUDENT: BRENT HELLIKER
 08/19/1999 - 08/31/2001 FY01: \$0 Total: \$44,000
Prin. Invest.: J R EHLERINGER
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30398 **UNIV OF UTAH** **8964**
 RETRIEVAL OF CIRRUS CLOUD MICROPHYSICAL PARAMETERS AND ANAL-
 YSIS OF THE RELATIONSHIP BETWEEN PROPERT
 08/14/2001 - 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: G MACE
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30423 **UNIV OF UTAH** **8965**
 PRECIPITATION FEATURES ACCORDING TO TRMM: DIURNAL CYCLE AND
 EVALUATION OF RAINFALL PRODUCTS (STUDE
 09/07/2001 - 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: E SIPZER
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40066 **UNIV OF UTAH** **8966**
 SPACE GRANT GEOSPATIAL EXTENSION SPECIALIST PROGRAM
 03/09/2000 - 03/31/2001 FY01: \$0 Total: \$431,250
Prin. Invest.: D WESTENSKOW
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40101 **UNIV OF UTAH** **8967**
 ROCKY MOUNTAIN UTAH SPACE GRANT COLLEGE AND FELLOW SHIP
 PROGRAM
 03/01/2001 - 01/31/2002 FY01: \$431,250 Total: \$431,250
Prin. Invest.: W WESTENSKOW
Tech. Officer: GSFC/D D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 1484 **UTAH STATE UNIV** **8968**
 THE FLOW OF PLASMA IN THE SOLAR TERRESTRIAL ENVIRONMENT
 11/26/1990 - 09/30/1999 FY01: \$0 Total: \$2,127,745
Prin. Invest.: R W SCHUNK
Tech. Officer: GSFC/T J BIRMINGHAM
CASE Category: 13 - PHYSICS

NAG 5 4469 **UTAH STATE UNIV** **8969**
 SATELLITE STUDIES OF STORM TIME MID- AND LOW-LATIT ODYNAMICS
 05/21/1997 - 09/30/2001 FY01: \$0 Total: \$309,200
Prin. Invest.: D G FEJER
Tech. Officer: GSFC/M M MELLOTT
CASE Category: 13 - PHYSICS

NAG 5 5046 **UTAH STATE UNIV** **8970**
 A ROCKET INVESTIGATION OF MESOSPHERIC EDDY DIFFU- SION
 EFFECTS ON AIRGLOW & ODD OXYGEN CHEMISTRY
 08/03/1995 - 06/30/2001 FY01: \$0 Total: \$271,756
Prin. Invest.: J C ULWICK
Tech. Officer: GSFC/P H PLESS
CASE Category: 13 - PHYSICS

NAG 5 5187 **UTAH STATE UNIV** **8971**
 CODA - COUPLING OF DYNAMICS AND AURORA FUNDING FOR FIRST
 YEAR OF GRANT
 03/30/1998 - 03/31/2003 FY01: \$103,391 Total: \$411,231
Prin. Invest.: C M SWENSON, NONE
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 - PHYSICS

NAG 5 5189 **UTAH STATE UNIV** **8972**
 A ROCKET INVESTIGATION OF ELECTRON DENSITY STRUCTURE,
 E-FIELDS AND AEROSOLS DURING PMSE AND N
 03/27/1998 - 03/31/2001 FY01: \$0 Total: \$419,648
Prin. Invest.: J C ULWICK
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 - PHYSICS

NAG 5 5245 **UTAH STATE UNIV** **8973**
 FIRST YEAR OF A THREE YEAR GRANT NAG5-5245 PI DR. JAMES C.
 ULWICK
 03/29/1999 - 03/28/2002 FY01: \$99,289 Total: \$390,470
Prin. Invest.: J C ULWICK
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 - PHYSICS

NAG 5 5258 **UTAH STATE UNIV** **8974**
 FIRST YEAR OF THREE YEAR EFFORT/ ROCKET INVESTIGATION OF WINDS
 ASSOCIATED W/E-REGION
 04/11/2000 - 03/23/2003 FY01: \$94,700 Total: \$147,900
Prin. Invest.: C M SWENSON
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 - PHYSICS

NAG 5 5293 **UTAH STATE UNIV** **8975**
 IONOSPHERIC NANOSATELLITE FORMATION (ION-F) IONOSPHERIC NANO-
 SATELLITE FORMATION (ION-F)
 05/23/2000 - 05/17/2003 FY01: \$200,770 Total: \$317,170
Prin. Invest.: B G FEJER
Tech. Officer: GSFC/J C BRINTON
CASE Category: 13 - PHYSICS

NAG 5 7597 **UTAH STATE UNIV** **8976**
 SNOW HYDROLOGY: THE PARAMETERIZATION OF SUBGRID PR OCESESSES
 WITHIN APHYSICALLY BASED SNOW ENERG
 07/21/1998 - 07/14/2002 FY01: \$0 Total: \$163,240
Prin. Invest.: D G TARBOTON
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 8227 **UTAH STATE UNIV** **8977**
 "THE FLOW OF PLASMA IN THE SOLAR TERRESTRIAL ENVI RONMENT".
 02/24/1999 - 03/31/2002 FY01: \$290,000 Total: \$838,470
Prin. Invest.: R W SCHUNK
Tech. Officer: GSFC/J M GREBOWSKY
CASE Category: 11 - ASTRONOMY

NAG 5 8638 **UTAH STATE UNIV** **8978**
 PLASMAPAUSE AND ITS ENVIRONMENT: A PROPOSAL FOR COOPERATIVE
 STUDIES
 08/11/1999 - 07/31/2002 FY01: \$24,000 Total: \$70,500
Prin. Invest.: B G FEJER
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 9290 **UTAH STATE UNIV** **8979**
 ION-F: A SPACE-BASED TESTBED FOR DISTRIBUTED FORMA TION
 CONTROL USING THE USUSAT NANOSATELLITE
 03/17/2000 - 03/31/2001 FY01: \$0 Total: \$47,000
Prin. Invest.: R FULLMER
Tech. Officer: GSFC/K LUU
CASE Category: 41 - AERONAUTICAL ENGNR

NAG 5 10215 **UTAH STATE UNIV** **8980**
 SATELLITE STUDIES OF STORM-TIME THERMOSPHERIC WIND S
 01/05/2001 - 01/14/2002 FY01: \$81,000 Total: \$81,000
Prin. Invest.: B G FEJER
Tech. Officer: GSFC/M MELLOTT
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10716	UTAH STATE UNIV	8981		NAS 8 97107	UTAH STATE UNIV	8989	
MULTIPLIERLESS FILTERS FOR REAL-TIME PROCESSING OF HYPERSPECTRAL IMAGES				REMOTE SENSING AND MODELING OF URBAN LANDCOVER			
04/10/2001 - 04/30/2002	FY01: \$62,000		Total: \$62,000	01/29/1997 - 01/28/2001	FY01: \$0		Total: \$135,127
<i>Prin. Invest.:</i> T BOSE				<i>Prin. Invest.:</i> R R GILLIES			
<i>Tech. Officer:</i> GSFC/P E HUNTER				<i>Tech. Officer:</i> MSFC/T MILLER			
<i>CASE Category:</i> 22 - COMPUTER SCIENCE				<i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE			
NAG 5 11282	UTAH STATE UNIV	8982		NAS 8 98221	UTAH STATE UNIV	8990	
USING REMOTE SENSING & IN SITU NETWORK OBSERVATION TO EVALUATE & IMPROVE THE PERFORMANCE OF				ELECTRONIC PROPERTIES OF MATERIALS WITH APPLICATION TO SPACECRAFT CHARGING			
08/17/2001 - 08/31/2004	FY01: \$82,344		Total: \$82,344	06/18/1998 - 09/17/2002	FY01: \$55,202		Total: \$331,736
<i>Prin. Invest.:</i> M WHITE				<i>Prin. Invest.:</i> J R DENNISON			
<i>Tech. Officer:</i> GSFC/D WICKLAND				<i>Tech. Officer:</i> MSFC/S PEARSON			
<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER				<i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER			
NAG 8 1750	UTAH STATE UNIV	8983		NCC 2 831	UTAH STATE UNIV	8991	
EXTENSION OF ATLANTA/HOUSTON URBAN HEAT ISLAND STUDIES USING ASTER IMAGERY				SEED-TO-SEED EXPERIMENT (EXPERIMENTS ON RUSSIAN SPACE STATION MIR)			
11/13/2000 - 11/19/2001	FY01: \$11,573		Total: \$11,573	10/26/1993 - 06/30/2000	FY01: \$0		Total: \$3,535,217
<i>Prin. Invest.:</i> R GILES				<i>Prin. Invest.:</i> W F CAMPBELL, G E BINGHAM, D L BUBENHEIM			
<i>Tech. Officer:</i> MSFC/D QUATTROCHI				<i>Tech. Officer:</i> ARC/G C JAHNS, ARC/C M WINGET			
<i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE				<i>CASE Category:</i> 55 - AGRICULTURE			
NAG 9 999	UTAH STATE UNIV	8984		NCC 2 5466	UTAH STATE UNIV	8992	
CROP OPTIMIZATION AND FAILURE ANALYSIS USING CO2				FLOUROMETRIC DETECTION OF MICROORGANISMS ON STERILIZED SURFACES			
04/25/1998 - 04/25/2004	FY01: \$216,919		Total: \$619,240	09/26/2001 - 09/14/2002	FY01: \$60,570		Total: \$60,570
<i>Prin. Invest.:</i> B G BUGBEE, L R JOHNSON				<i>Prin. Invest.:</i> L S POWERS			
<i>Tech. Officer:</i> KSC/R M WHEELER				<i>Tech. Officer:</i> ARC/C P MCKAY, ARC/B F SMITH			
<i>CASE Category:</i> 54 - ENVIRONMENTAL BIOLOGY				<i>CASE Category:</i> 51 - BIOLOGY (EXCLUDING ENVIR)			
NAG 9 1237	UTAH STATE UNIV	8985		NCC 5 219	UTAH STATE UNIV	8993	
CO2 GAS EXCHANGE TO DETERMINE THE FACTORS CONTROLLING RESPIRATION & CARBON USE IN CROP PLANTS				HOLOGRAPHIC LIDAR CONCEPTS AND APPLICATIONS			
06/16/2000 - 07/01/2003	FY01: \$21,219		Total: \$42,275	08/19/1997 - 10/31/2001	FY01: \$0		Total: \$79,520
<i>Prin. Invest.:</i> B BUGBEE				<i>Prin. Invest.:</i> T D WILKERSON			
<i>Tech. Officer:</i> JSC/D BARTA				<i>Tech. Officer:</i> GSFC/G SCHWEMMER			
<i>CASE Category:</i> 55 - AGRICULTURE				<i>CASE Category:</i> 11 - ASTRONOMY			
NAG 9 1284	UTAH STATE UNIV	8986		NCC 8 162	UTAH STATE UNIV	8994	
OPTIMIZATION OF ROOT ZONE SUBSTRATES FOR REDUCED GRAVITY EXPERIMENTS				ANALYSIS OF SPATIAL AND TEMPORAL VARIABILITY OF THE WARM SEASON LAND SURFACE ENERGY BUDGET			
02/22/2001 - 01/31/2002	FY01: \$95,000		Total: \$95,000	11/02/1998 - 10/31/2001	FY01: \$0		Total: \$75,115
<i>Prin. Invest.:</i> G BINGHAM				<i>Prin. Invest.:</i> R R GILLIES			
<i>Tech. Officer:</i> JSC/K DAUES				<i>Tech. Officer:</i> MSFC/W LAPENTA			
<i>CASE Category:</i> 56 - MEDICAL				<i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE			
NAS 1 00071	UTAH STATE UNIV	8987		NCC13 18	UTAH STATE UNIV	8995	
SENSOR MODULE DEVELOPMENT AND SUPPORT FOR GIFTS				NASA-SPONSORED VISITING INVESTIGATOR PROGRAM AFFILIATE CENTER FOR THE WESTERN UNITED STATES			
06/19/2000 - 02/14/2002	FY01: \$4,433,550		Total: \$9,313,550	09/12/1996 - 12/31/1999	FY01: \$0		Total: \$515,023
<i>Prin. Invest.:</i> G BINGHAM, W SMITH				<i>Prin. Invest.:</i> D BAKER			
<i>Tech. Officer:</i> LARC/W A ROETTKER, LARC/J B MILLER				<i>Tech. Officer:</i> SSC/R MCKELLIP			
<i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE				<i>CASE Category:</i> 79 - SOCIAL SCIENCE, OTHER			
NAS 1 20467	UTAH STATE UNIV	8988		NCC13 00005	UTAH STATE UNIV	8996	
SOUNDING OF THE ATMOSPHERE USING BROADBAND EMISSION RADIOMETRY (SABER) INSTRUMENT				AFFILIATED RESEARCH CENTER PROGRAM SAME			
03/28/1995 - 10/31/2001	FY01: \$120,000		Total: \$17,051,680	03/06/2000 - 03/05/2005	FY01: \$153,212		Total: \$365,666
<i>Prin. Invest.:</i> J ULWICK, D J BAKER, R ESPLIN				<i>Prin. Invest.:</i> R D RAMSEY, D BAKER, C HALL			
<i>Tech. Officer:</i> LARC/M D VANEK, LARC/T C DENKINS				<i>Tech. Officer:</i> SSC/A PEEK			
<i>CASE Category:</i> 42 - ASTRONAUTICAL ENGR				<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER			

NGT 5 40047 **UTAH STATE UNIV** **8997**
 TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE
 AND FELLOWSHIP PROGRAM
 02/11/1997 - 01/31/2002 FY01: \$0 Total: \$1,354,372
Prin. Invest.: D BAKER
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 8 52866 **UTAH STATE UNIV** **8998**
 MONITORING OZONE CONCENTRATIONS AND INJURY IN HIGH ELEVATION
 DOUGLAS FIR NEAR SALT LAKE CITY
 07/24/1998 - 06/30/2001 FY01: \$0 Total: \$44,000
Prin. Invest.: F BAKER
Tech. Officer: MSFC/J F DOWDY
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 8 52885 **UTAH STATE UNIV** **8999**
 EXPERIMENTAL STUDY OF THE SECONDARY ELECTRON EMISSION
 06/22/2000 - 08/31/2003 FY01: \$22,000 Total: \$44,000
Prin. Invest.: J DENNISON
Tech. Officer: MSFC/S NASH-STEVENSON
CASE Category: 13 - PHYSICS

NGT10 52617 **UTAH STATE UNIV** **9000**
 PLANT RESIDE DEGRADATION PRODUCTS IN REGENERATIVE LIFE
 SUPPORT SYSTEMS
 07/14/1998 - 12/01/2001 FY01: \$7,500 Total: \$73,500
Prin. Invest.: P GROSSEL
Tech. Officer: KSC/R WHEELER
CASE Category: 59 - LIFE SCIENCE, OTHER

VERMONT

NAG 5 6118 **MIDDLEBURY COLLEGE** **9001**
 CORONAL MASS EJECTIONS AND LARGE-SCALE EVOLUTION O
 08/08/1997 - 09/14/2000 FY01: \$0 Total: \$87,880
Prin. Invest.: P WOLFSON
Tech. Officer: GSFC/W J WAGNER
CASE Category: 11 - ASTRONOMY

NAG 5 8020 **MIDDLEBURY COLLEGE** **9002**
 SN 1006: PROBING THE SYNCHROTRON ORIGIN OF THE X- RAYS AND
 MEASURING PROPER MOTIONS _ADP98
 01/06/1999 - 12/31/2001 FY01: \$0 Total: \$39,632
Prin. Invest.: P WINKLER
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 9733 **MIDDLEBURY COLLEGE** **9003**
 ENERGETICS & INITIATION OF CORONAL MASS EJECTIONS
 06/30/2000 - 06/30/2002 FY01: \$30,950 Total: \$56,328
Prin. Invest.: R WOLFSON
Tech. Officer: GSFC/W J WAGNER
CASE Category: 13 - PHYSICS

NAG 5 4138 **UNIV OF VERMONT** **9004**
 MAPPING NORTHERN METHANE SOURCES AND SINKS IN THE USING
 RADARSAT
 03/17/1997 - 12/31/2000 FY01: \$0 Total: \$237,500
Prin. Invest.: D MORRISSEY
Tech. Officer: GSFC/R H THOMAS
CASE Category: 54 - ENVIRONMENTAL BIOLOGY

NAG 5 5135 **UNIV OF VERMONT** **9005**
 EFFECTS OF A SOUNDING ROCKET FLIGHT ON DROSOPHIA- TEST BED
 FOR MOTILITY & METABOLISM EXPERIMENTS
 04/14/1997 - 10/13/2000 FY01: \$0 Total: \$34,947
Prin. Invest.: T KELLER
Tech. Officer: GSFC/W JOHNSON
CASE Category: 13 - PHYSICS

NAG 5 7247 **UNIV OF VERMONT** **9006**
 CORE FORMATION UNDER DYNAMIC CONDITIONS: AN EXPERI MENTAL
 STUDY
 04/28/1998 - 12/31/2000 FY01: \$0 Total: \$60,000
Prin. Invest.: T RUSHMER
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 9532 **UNIV OF VERMONT** **9007**
 CORE FORMATION UNDER DYNAMIC CONDITIONS: SILICATE- METAL
 DISTRIBUTION WITH DIFFERENTIAL STRESS
 04/27/2000 - 04/30/2001 FY01: \$0 Total: \$20,000
Prin. Invest.: T RUSHMER
Tech. Officer: GSFC/J BOYCE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10463 **UNIV OF VERMONT** **9008**
 CORE FORMATION UNDER DYNAMIC CONDITIONS: AN EXPERI MENTAL
 DEFORMATION INVESTIGATION
 02/27/2001 - 02/28/2002 FY01: \$40,000 Total: \$40,000
Prin. Invest.: T RUCHMER
Tech. Officer: GSFC/J BOYCE
CASE Category: 12 - CHEMISTRY

NAG 8 1281 **UNIV OF VERMONT** **9009**
 JOVE RESEARCH
 01/21/1997 - 08/31/2000 FY01: -\$2,876 Total: \$52,124
Prin. Invest.: G MIRCHANDANI
Tech. Officer: MSFC/J F DOWDY, MSFC/J R PRUITT
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 2 5342 **UNIV OF VERMONT** **9010**
 LAND COVER MAPPING IN NORTHERN EXOSYSTEMS USING AD EOS/
 POLDER
 08/17/1999 - 04/30/2000 FY01: \$0 Total: \$35,000
Prin. Invest.: G P LIVINGSTON, L A MORRISSEY
Tech. Officer: ARC/V C VANDERBILT
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 2 5399 **UNIV OF VERMONT** **9011**
 LAND COVER MAPPING IN NORTHERN ECOSYSTEMS USING AD EOS/
 POLDER
 09/18/2000 - 07/31/2001 FY01: \$0 Total: \$30,000
Prin. Invest.: G P LIVINGSTON
Tech. Officer: ARC/V C VANDERBILT, ARC/E P CONDON
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 5 394 UNIV OF VERMONT 9012
 NASA EPSCOR: PREPARATORY GRANT PROPOSAL
 05/13/1999 – 11/01/2001 FY01: \$0 Total: \$450,000
Prin. Invest.: W LAKIN
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NCC 5 581 UNIV OF VERMONT 9013
 VERMONT NASA EPSCOR PROGRAM
 08/15/2001 – 07/31/2004 FY01: \$125,000 Total: \$125,000
Prin. Invest.: W D LAKIN
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 40045 UNIV OF VERMONT 9014
 NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRA
 01/24/1997 – 02/28/2001 FY01: \$0 Total: \$973,750
Prin. Invest.: W D LAKIN
Tech. Officer: HQ/J DASCH
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 40110 UNIV OF VERMONT 9015
 VERMONT SPACE GRANT COLLEGE & FELLOWSHIP PROGRAM
 03/02/2001 – 02/28/2002 FY01: \$256,250 Total: \$256,250
Prin. Invest.: W LAKIN
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

VIRGINIA

NAG 1 2219 CHRISTOPHER NEWPORT UNIV 9016
 TECHNOLOGY DEVELOPMENT IMPLEMENTATION, AND ASSESS- MENT:
 K-16 PRE-SERVICE, IN-SERVICE, AND DISTANCE
 08/20/1999 – 07/31/2002 FY01: \$537,835 Total: \$1,112,468
Prin. Invest.: R CATON
Tech. Officer: LARC/T E PINELLI, LARC/R A HATHAWAY
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 2284 CHRISTOPHER NEWPORT UNIV 9017
 AN EXPERIMENT IN EDUCATIONAL TECHNOLOGY-EVALUATING A CYBER-
 BASED MODEL FOR LEARNING
 03/28/2000 – 12/15/2001 FY01: \$0 Total: \$88,000
Prin. Invest.: L LAMBERT
Tech. Officer: LARC/D BUSHNELL
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 1 01070 CHRISTOPHER NEWPORT UNIV 9018
 LOW TEMP SUPERCONDUCTING QUANTUM INTERFERENCE (SQUID)
 NONDESTRUCTIVE EVALUATION (NDE) APPLIC'S
 06/01/2001 – 05/31/2002 FY01: \$30,070 Total: \$30,070
Prin. Invest.: R SELIM
Tech. Officer: LARC/M NAMKUNG
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 5 6503 CHRISTOPHER NEWPORT UNIV 9019
 VALIDATION OF MSMT. OF POLLUTION IN THE TROPOSPHER E (MOPITT)
 EXPERIMENT BY GROUND-BASED INFRARED SO
 10/29/1997 – 03/31/2002 FY01: \$95,705 Total: \$496,543
Prin. Invest.: N POUGATCHEV
Tech. Officer: GSFC/D STARR
CASE Category: 11 – ASTRONOMY

NCC 1 277 CHRISTOPHER NEWPORT UNIV 9020
 DEV OF A 3-DIMENSIONAL HEAVY ION, CHARGED PARTICLE BOLTZMANN
 TRANSPORT SOLVER
 02/13/1998 – 01/31/2001 FY01: -\$14,121 Total: \$244,484
Prin. Invest.: C K CHANG
Tech. Officer: LARC/R C SINGLETERRY, JR., LARC/J W WILSON
CASE Category: 13 – PHYSICS

NCC 1 318 CHRISTOPHER NEWPORT UNIV 9021
 AIRCRAFT AND GROUND-BASED SPECTROSCOPIC MEASURE- MENTS OF
 TROPOSPHERIC CO, CO2,CH4,N2O, AND H2O
 09/18/1998 – 04/30/2001 FY01: -\$9,354 Total: \$200,365
Prin. Invest.: N POUGATCHEV, M BUONCRISTIANI
Tech. Officer: LARC/G W SOCHSE, LARC/D E HINTON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 1 01028 CHRISTOPHER NEWPORT UNIV 9022
 THEORETICAL AND COMPUTATIONAL DEVELOPMENT OF A GALACTIC
 COSMIC RAY (GCR) BOUNDARY CONDITION MODEL
 03/08/2001 – 01/31/2004 FY01: \$92,586 Total: \$92,586
Prin. Invest.: K CHANG
Tech. Officer: LARC/R C SINGLETERRY
CASE Category: 41 – AERONAUTICAL ENGR

NCC 5 435 CHRISTOPHER NEWPORT UNIV 9023
 THE NASA WHY FILES, PROBLEM-BASED LEARNING INTEGRA TING
 BROADCAST VIDEO AND THE INTERNET.
 09/24/1999 – 09/30/2002 FY01: \$96,459 Total: \$244,396
Prin. Invest.: N B FREEMAN
Tech. Officer: GSFC/D GABRYS
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 1 2077 COLLEGE OF WILLIAM AND MARY 9024
 BELL-CURVE BASED EVOLUTIONARY STRATEGIES FOR STRUCTURAL
 OPTIMIZATION
 06/08/1998 – 07/31/2000 FY01: -\$4 Total: \$86,446
Prin. Invest.: R K KINCAID
Tech. Officer: LARC/J SOBIESKI
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 2168 COLLEGE OF WILLIAM AND MARY 9025
 AN ADVANCED HIERARCHICAL HYBRID ENVIRONMENT FOR RELIABILITY
 AND PERFORMANCE MODELING
 03/24/1999 – 02/28/2002 FY01: \$112,025 Total: \$302,429
Prin. Invest.: G CIARDO
Tech. Officer: LARC/P W GOODE
CASE Category: 22 – COMPUTER SCIENCE

NAG 1 2271 COLLEGE OF WILLIAM AND MARY 9026
 A UNIFORM ONTOLOGY FOR SOFTWARE INTERFACES
 03/21/2000 – 02/28/2002 FY01: \$0 Total: \$44,752
Prin. Invest.: S FEYOCK
Tech. Officer: LARC/P C SCHUTTE/A C TRUJILLO
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 1 2314 COLLEGE OF WILLIAM AND MARY 9027
 PREPARATION AND CHARACTERIZATION OF POLYIMIDE NANOCOMPO-
 SITES
 06/26/2000 – 06/14/2002 FY01: \$0 Total: \$17,495
Prin. Invest.: R A ORWOLL
Tech. Officer: LARC/J W CONNELL, LARC/J G SMITH
CASE Category: 12 – CHEMISTRY

NAG 1 2320 COLLEGE OF WILLIAM AND MARY 9028
 BELL-CURVE BASED EVOLUTIONARY STRATEGIES FOR STRUCTURAL OPTIMIZATION
 07/07/2000 – 07/31/2001 FY01: \$26,000 Total: \$42,245
Prin. Invest.: R K KINCAID
Tech. Officer: LARC/J SOBIESKI
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 01107 COLLEGE OF WILLIAM AND MARY 9029
 PREPARATION AND CHARACTERIZATION OF POLYIMIDE NANOCOMPOSITES
 07/09/2001 – 06/14/2002 FY01: \$2,920 Total: \$2,920
Prin. Invest.: R A ORWOLL
Tech. Officer: LARC/J W CONNELL
CASE Category: 12 – CHEMISTRY

NAS 1 00146 COLLEGE OF WILLIAM AND MARY 9030
 SPECTROSCOPIC RESEARCH AND ANALYSES OF SAGE III DATA PRODUCTS
 01/19/2001 – 01/18/2006 FY01: \$101,000 Total: \$101,000
Prin. Invest.: D BRENNER
Tech. Officer: LARC/W CHU
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 1 98039 COLLEGE OF WILLIAM AND MARY 9031
 SAGE SCIENCE INVESTIGATION
 06/30/1998 – 08/31/2000 FY01: \$0 Total: \$207,437
Prin. Invest.: D C BENNER
Tech. Officer: LARC/W P CHU
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NCC 1 239 COLLEGE OF WILLIAM AND MARY 9032
 THE DEVELOPMENT OF MATERIALS FOR STRUCTURES AND RADIATION SHIELDING IN SPACE
 07/17/1996 – 12/31/2000 FY01: -\$1,620 Total: \$169,738
Prin. Invest.: R L KIEFER, R A ORWOLL
Tech. Officer: LARC/S A THIBEAULT
CASE Category: 12 – CHEMISTRY

NCC 1 327 COLLEGE OF WILLIAM AND MARY 9033
 PREDICTION FOR RADIATION SHIELDING MATERIALS
 01/27/1999 – 12/18/2001 FY01: \$99,660 Total: \$294,189
Prin. Invest.: R L KIEFER
Tech. Officer: LARC/S A THIBEAULT
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NCC 1 356 COLLEGE OF WILLIAM AND MARY 9034
 CYBER SIMULATION FOR COMPOSITE MAT'L S & STRUCTURES IN AERONAUTICS AND AEROSPACE
 09/28/1999 – 09/30/2002 FY01: \$150,000 Total: \$324,060
Prin. Invest.: D M MANOS, R B PIPES
Tech. Officer: LARC/J H STARNES, JR.
CASE Category: 41 – AERONAUTICAL ENGR

NCC 1 390 COLLEGE OF WILLIAM AND MARY 9035
 HIGH RESOLUTION SPECTROSCOPY TO SUPPORT ATMOSPHERIC MEASUREMENTS
 03/29/2000 – 03/31/2003 FY01: \$139,600 Total: \$292,100
Prin. Invest.: D C BENNER, M D VENKATARAMAN
Tech. Officer: LARC/M H SMITH/C P RINSLAND
CASE Category: 13 – PHYSICS

NCC 1 01030 COLLEGE OF WILLIAM AND MARY 9036
 DEV & APPLIC NON-LINEAR IMAGE ENHANCEMENT & MULTI-SENSOR FUSION TECHNIQ'S HAZY/DARK IMAG'G CONDITIO
 03/06/2001 – 02/08/2004 FY01: \$100,000 Total: \$100,000
Prin. Invest.: Z RAHMAD
Tech. Officer: LARC/D J JOBSON, LARC/S D HARRAH
CASE Category: 41 – AERONAUTICAL ENGR

NCC 1 01056 COLLEGE OF WILLIAM AND MARY 9037
 LARGE SCALE PRODUCTION OF CARBON NANOTUBES USING THE JEFFERSON LAB FREE ELECTRON LASER
 07/25/2001 – 07/24/2002 FY01: \$60,000 Total: \$60,000
Prin. Invest.: B C HOLLOWAY
Tech. Officer: LARC/M W SMITH
CASE Category: 47 – METAL & MATERIALS ENGR

NGT 1 01008 COLLEGE OF WILLIAM AND MARY 9038
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) MY 1/3
 06/04/2001 – 06/30/2004 FY01: \$12,000 Total: \$12,000
Prin. Invest.: N M ALEXANDROV, V TORCZON
Tech. Officer: LARC/R HATHAWAY
CASE Category: 22 – COMPUTER SCIENCE

NGT 1 01010 COLLEGE OF WILLIAM AND MARY 9039
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) MY 1/3
 06/04/2001 – 06/30/2004 FY01: \$12,000 Total: \$12,000
Prin. Invest.: M HINDERS
Tech. Officer: LARC/R A HATHAWAY
CASE Category: 41 – AERONAUTICAL ENGR

NGT 1 52180 COLLEGE OF WILLIAM AND MARY 9040
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
 01/12/1998 – 12/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: J S BOGHOSIAN
Tech. Officer: LARC/P H JOHNSTON
CASE Category: 13 – PHYSICS

NGT 1 52195 COLLEGE OF WILLIAM AND MARY 9041
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) YEAR ONE
 06/26/1998 – 06/30/2000 FY01: \$0 Total: \$44,000
Prin. Invest.: A S MINER, G CIARDO
Tech. Officer: LARC/P W GOODE
CASE Category: 22 – COMPUTER SCIENCE

NGT 1 52200 COLLEGE OF WILLIAM AND MARY 9042
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
 07/21/1998 – 08/31/2002 FY01: \$24,000 Total: \$78,000
Prin. Invest.: R A ORWOLL
Tech. Officer: LARC/J W CONNELL, LARC/J A HINKLEY
CASE Category: 47 – METAL & MATERIALS ENGR

NGT 1 52204 COLLEGE OF WILLIAM AND MARY 9043
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
 09/04/1998 – 08/31/2002 FY01: \$14,500 Total: \$82,000
Prin. Invest.: M HINDERS
Tech. Officer: LARC/T E PINELLI
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

<p>NCC 1 310 ESTRN VA MED SCHL-ESTRN VA MED AUTHORITY 9044 STRESS COUNTER-RESPONSE TRAINING VIA PHYSIOLOGICAL SELF REGULATIONS DURING FLIGHT SIMULATION 07/29/1998 - 06/30/2000 FY01: \$0 Total: \$60,762 <i>Prin. Invest.:</i> O S PALSSON <i>Tech. Officer:</i> LARC/A T POPE, LARC/P C SCHUTTE <i>CASE Category:</i> 69 - PSYCHOLOGY, OTHER</p>	<p>NAG 5 9035 GEORGE MASON UNIV 9052 ANALYSES OF OCEANIC MONTHLY RAIN RATE PARAMETERS DERIVED FROM TMI 02/09/2000 - 02/14/2001 FY01: \$0 Total: \$50,232 <i>Prin. Invest.:</i> L S CHIU <i>Tech. Officer:</i> GSFC/A T CHANG <i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER</p>
<p>NAG 1 2258 GEORGE MASON UNIV 9045 INVENTIVE DESIGN: AN EVOLUTIONARY COMPUTATION APPROACH 01/05/2000 - 08/31/2001 FY01: \$18,999 Total: \$133,999 <i>Prin. Invest.:</i> T ARCISZEWSKI, D A SCHUM, K DEJONG <i>Tech. Officer:</i> LARC/J J REHDER <i>CASE Category:</i> 22 - COMPUTER SCIENCE</p>	<p>NAG 5 9636 GEORGE MASON UNIV 9053 CONTINUOUS PRECIPITATION ESTIMATES FROM TRMM & MESOSCALE MODELS 05/25/2000 - 07/14/2001 FY01: \$67,901 Total: \$82,901 <i>Prin. Invest.:</i> L CHIU <i>Tech. Officer:</i> GSFC/J A WEINMAN <i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER</p>
<p>NAG 1 2316 GEORGE MASON UNIV 9046 MIDDLE ATMOSPHERIC HYDROGEN PHOTOCHEMISTRY 06/23/2000 - 06/22/2001 FY01: \$1 Total: \$32,001 <i>Prin. Invest.:</i> M SUMMERS <i>Tech. Officer:</i> LARC/G MADDREA <i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE</p>	<p>NAG 5 9669 GEORGE MASON UNIV 9054 HYDROGEN CHEMISTRY IN THE POLAR MESOSPHERE 06/22/2000 - 06/30/2002 FY01: \$100,900 Total: \$193,100 <i>Prin. Invest.:</i> M E SUMMERS <i>Tech. Officer:</i> GSFC/M MELLOTT <i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER</p>
<p>NAG 1 01030 GEORGE MASON UNIV 9047 INVENTIVE DESIGN: AN EVOLUTIONARY COMPUTATION APPROACH 03/09/2001 - 09/30/2004 FY01: \$179,069 Total: \$179,069 <i>Prin. Invest.:</i> T ARCISZEWSKI, K D JONG <i>Tech. Officer:</i> LARC/J J RENDER <i>CASE Category:</i> 29 - MATH/COMPUTER SCI, OTHER</p>	<p>NAG 5 9781 GEORGE MASON UNIV 9055 PROBLEM SOLVING ON LOOSELY COUPLED SYSTEM 07/07/2000 - 01/31/2002 FY01: \$30,283 Total: \$62,283 <i>Prin. Invest.:</i> P Y WANG <i>Tech. Officer:</i> GSFC/J DORBAND <i>CASE Category:</i> 22 - COMPUTER SCIENCE</p>
<p>NAG 2 1289 GEORGE MASON UNIV 9048 ABATEMENT OF AUTOMATION ERRORS BY TRAINING BASED ON COGNITIVE MODELS 02/01/1999 - 12/31/2001 FY01: \$108,167 Total: \$279,804 <i>Prin. Invest.:</i> D B DAVIS, P A IKOMI, R WHOLT <i>Tech. Officer:</i> ARC/S M CASNER <i>CASE Category:</i> 69 - PSYCHOLOGY, OTHER</p>	<p>NAG 5 10038 GEORGE MASON UNIV 9056 LOW-LUMINOSITY NUCLEAR ACCRETION IN NGC 4261 & NGC 6251 09/27/2000 - 09/30/2002 FY01: \$16,000 Total: \$38,518 <i>Prin. Invest.:</i> R M SAMBRUNA <i>Tech. Officer:</i> GSFC/R MUSHOTZKY <i>CASE Category:</i> 11 - ASTRONOMY</p>
<p>NAG 5 4140 GEORGE MASON UNIV 9049 MULTISENSOR MAPPING OF AFRICAN SETTLEMENTS AND REF 04/12/1997 - 06/30/2001 FY01: \$0 Total: \$125,771 <i>Prin. Invest.:</i> B HAACK <i>Tech. Officer:</i> GSFC/R H THOMAS <i>CASE Category:</i> 79 - SOCIAL SCIENCE, OTHER</p>	<p>NAG 5 10073 GEORGE MASON UNIV 9057 HIGH-ENERGY ABSORPTION IN BLAZARS: PROBING THE INNER JET ENVIRONMENT (ADP 98) 10/30/2000 - 06/30/2002 FY01: \$70,923 Total: \$70,923 <i>Prin. Invest.:</i> R M SAMBRUNA <i>Tech. Officer:</i> GSFC/R J OLIVERSEN <i>CASE Category:</i> 11 - ASTRONOMY</p>
<p>NAG 5 7065 GEORGE MASON UNIV 9050 INTERPLANETARY DUST DISTRIBUTION AND THE DIRBE DATA 03/11/1998 - 03/14/2000 FY01: \$0 Total: \$123,700 <i>Prin. Invest.:</i> L OZNEROY <i>Tech. Officer:</i> GSFC/D K WEST <i>CASE Category:</i> 11 - ASTRONOMY</p>	<p>NAG 5 10177 GEORGE MASON UNIV 9058 A PROTOTYPE CLUSTERING TECHNIQUE FOR DATA MINING & KNOWLEDGE DISCOVERY BASED ON A DATA PYRAMID MODE 01/04/2001 - 01/14/2002 FY01: \$132,000 Total: \$132,000 <i>Prin. Invest.:</i> D KAFATOS <i>Prin. Invest.:</i> NONE <i>Tech. Officer:</i> GSFC/K L MOE <i>CASE Category:</i> 22 - COMPUTER SCIENCE</p>
<p>NAG 5 8834 GEORGE MASON UNIV 9051 THE REDSHIFT DEPENDENCE OF THE INTERACTION- ACTIVITY CONNECTION AMONG ULTRALUMINOUS STARBURST 11/18/1999 - 09/30/2001 FY01: \$29,734 Total: \$58,845 <i>Prin. Invest.:</i> J WALLIN <i>Tech. Officer:</i> GSFC/D K WEST <i>CASE Category:</i> 11 - ASTRONOMY</p>	<p>NAG 5 10243 GEORGE MASON UNIV 9059 CONSTRAINING THE STRUCTURE OF THE CENTRAL ENGINE OF RADIO-Loud AGN ADP99 01/17/2001 - 09/14/2002 FY01: \$28,219 Total: \$28,219 <i>Prin. Invest.:</i> R M SAMBRUNA <i>Tech. Officer:</i> GSFC/R J OLIVERSEN <i>CASE Category:</i> 11 - ASTRONOMY</p>

NAG 5 10244 **GEORGE MASON UNIV** **9060**
 INTENSIVE RXTE MONITORING OF THE TEV BLAZAR MRK501 (ADP 99)
 01/18/2001 – 01/31/2002 FY01: \$23,678 Total: \$23,678
Prin. Invest.: R M SAMBRUNA
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 10708 **GEORGE MASON UNIV** **9061**
 STRUCTURE OF THE ACCRETION FLOW IN RADIO-LOUD AGN
 04/23/2001 – 04/30/2002 FY01: \$104,959 Total: \$104,959
Prin. Invest.: R M SAMBRUNA
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 10776 **GEORGE MASON UNIV** **9062**
 COBE/DIRBE DATA AND THE ZODIACAL CLOUD (ADP 2000)
 04/26/2001 – 04/30/2002 FY01: \$121,000 Total: \$121,000
Prin. Invest.: L OZNEROY
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 10879 **GEORGE MASON UNIV** **9063**
 ANALYSES OF RAIN RATE PARAMETERS DERIVED FROM TMI:
 CONDITIONAL RAIN RATE AND RAIN FRACTIONS
 05/10/2001 – 05/14/2002 FY01: \$25,162 Total: \$25,162
Prin. Invest.: L CHIU
Tech. Officer: GSFC/A T CHANG
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 11346 **GEORGE MASON UNIV** **9064**
 SATELLITE MICROWAVE ESTIMATES OF OCEANIC RAINFALL AND SNOW
 OVER LAND
 09/13/2001 – 09/14/2002 FY01: \$110,158 Total: \$110,158
Prin. Invest.: L CHIU
Tech. Officer: GSFC/A T CHANG
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG13 01009 **GEORGE MASON UNIV** **9065**
 VIRGINIA ACCESS
 09/19/2001 – 09/18/2002 FY01: \$997,800 Total: \$997,800
Prin. Invest.: M KAFATOS
Tech. Officer: SSC/W GRAHAM
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCA 1 01004 **GEORGE MASON UNIV** **9066**
 VIRGINIA SATSLAB
 08/31/2001 – 04/30/2002 FY01: \$500,000 Total: \$500,000
Prin. Invest.: G DONOHUE
Tech. Officer: LARC/J R BURLEY
CASE Category: 41 – AERONAUTICAL ENGR

NCC 5 143 **GEORGE MASON UNIV** **9067**
 EARTH SYSTEM SCIENCE DATA SUPPORT
 07/15/1996 – 06/14/2001 FY01: \$1,501,220 Total: \$7,132,077
Prin. Invest.: M KAFATOS
Tech. Officer: GSFC/S KEMPLER
CASE Category: 11 – ASTRONOMY

NCC 5 245 **GEORGE MASON UNIV** **9068**
 DEVELOPMENT OF POSEIDON OCEAN MODEL FOR NSIPP
 10/08/1997 – 10/14/2000 FY01: \$0 Total: \$207,650
Prin. Invest.: P SCHOPF
Tech. Officer: GSFC/M RIENECKER
CASE Category: 33 – OCEANOGRAPHY

NCC 5 306 **GEORGE MASON UNIV** **9069**
 SEASONAL & INTERANNUAL EARTH SCIENCE INFORMANTION PARTNER
 (SIESIP)
 04/09/1998 – 11/30/2001 FY01: \$115,000 Total: \$2,350,000
Prin. Invest.: M KAFATOS
Tech. Officer: GSFC/M MAIDEN
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NCC 5 360 **GEORGE MASON UNIV** **9070**
 CONTINUING CAREER PROGRAM (CCP)
 08/26/1998 – 08/31/2003 FY01: \$951,813 Total: \$1,732,716
Prin. Invest.: R R STOUGH
Tech. Officer: GSFC/A J MATURO
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NCC 5 522 **GEORGE MASON UNIV** **9071**
 DEVELOPMENT OF POSEIDON OCEAN MODEL FOR NSIPP
 12/18/2000 – 12/31/2001 FY01: \$150,207 Total: \$150,207
Prin. Invest.: P S SCHOPF
Tech. Officer: GSFC/M RIENECKER
CASE Category: 33 – OCEANOGRAPHY

NCC 5 555 **GEORGE MASON UNIV** **9072**
 JOINT INTERDISCIPLINARY EARTH SCIENCE
 05/04/2001 – 06/14/2002 FY01: \$2,441,161 Total: \$2,441,161
Prin. Invest.: M KAFATOS
Tech. Officer: GSFC/M MCCUMBER
CASE Category: 11 – ASTRONOMY

NAG 1 1936 **HAMPTON UNIV** **9073**
 MIXING, NOISE, AND THRUST BENEFITS USING CORRU- GATED DESIGNS
 05/27/1997 – 06/05/2000 FY01: -\$1,088 Total: \$348,912
Prin. Invest.: M H MORGAN, M M GILINSKY
Tech. Officer: LARC/J W POSEY, LARC/M K PONTON
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 1941 **HAMPTON UNIV** **9074**
 CHARACTERIZATION OF MOLECULAR INTERACTIONS AT METAL/POLYMER
 COMPOSITE SURFACES AND INTERPHASES
 05/30/1997 – 12/31/2000 FY01: \$0 Total: \$300,000
Prin. Invest.: J C WILLIAMS
Tech. Officer: LARC/T L ST. CLAIR, LARC/S H LOWTHER
CASE Category: 12 – CHEMISTRY

NAG 1 1947 **HAMPTON UNIV** **9075**
 CONCEPTS FOR ATMOSPHERIC SCIENCE EDUCATION (CASE)
 06/17/1997 – 06/30/2000 FY01: -\$355 Total: \$361,595
Prin. Invest.: M P MCCORMICK, J M RUSSELL,III
Tech. Officer: LARC/L R POOLE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1963 **HAMPTON UNIV** **9076**
 INVESTIGATIONS OF TROPICAL ATMOSPHERIC RADIATIVE ENERGY
 BALANCE USING CERS AND TRMM DATA
 09/03/1997 - 02/28/2001 FY01: -\$11,437 Total: \$1,018,385
Prin. Invest.: B LIN
Tech. Officer: LARC/B A WIENCKI
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 2135 **HAMPTON UNIV** **9077**
 STUDY OF CONTRAILS AND ATMOSPHERIC RADIATION MEAS (ARM) DATA
 PROJECT DEVELOPMENT
 01/19/1999 - 01/18/2002 FY01: \$115,057 Total: \$285,939
Prin. Invest.: M P MCCORMICK, J M RUSSELL, 111
Tech. Officer: LARC/P MINNIS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 2170 **HAMPTON UNIV** **9078**
 DEVELOPMENT AND COMPARISON OF GLOBAL AEROSOL, WATER VAPOR,
 AND OZONE CLIMATOLOGIES USING SAGE II
 03/25/1999 - 02/28/2002 FY01: \$63,000 Total: \$213,000
Prin. Invest.: M P MCCORMICK
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 2206 **HAMPTON UNIV** **9079**
 TOP-OF-ATMOSPHERE CLEAR-SKY BROADBAND RADIATIVE FLUX AND
 DIRECT AEROSOL RADIATIVE FORCING FROM
 06/21/1999 - 06/30/2002 FY01: \$57,548 Total: \$164,555
Prin. Invest.: N G LOEB, B LIN, J HU
Tech. Officer: LARC/V E DELNORE, LARC/J L RAPER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 2207 **HAMPTON UNIV** **9080**
 OPENING NATIVE AMERICAN CAREER PATHS IN MATHEMATIC SCIENCE,
 AND TECHNOLOGY
 07/01/1999 - 06/30/2000 FY01: -\$7,138 Total: \$67,862
Prin. Invest.: C LOWE
Tech. Officer: LARC/R HATHAWAY
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 1 2223 **HAMPTON UNIV** **9081**
 EVALUATION OF THE EFFECT OF WATER VAPOR ON THE PERFORMANCE
 OF NASA'S NMRO CATALYSIT FOR CARBON
 08/31/1999 - 03/31/2002 FY01: \$74,869 Total: \$199,869
Prin. Invest.: A AKYURTLU
Tech. Officer: LARC/D R SCHRYSER
CASE Category: 41 - AERONAUTICAL ENGR

NAG 1 2224 **HAMPTON UNIV** **9082**
 STUDENT FIELD TESTING OF THE HAMPTON UNIV COMPACT OZONE LIDAR
 SYSTEM CERTIFICATION OF
 08/24/1999 - 12/31/2001 FY01: \$75,000 Total: \$200,000
Prin. Invest.: T H CHYBA
Tech. Officer: LARC/J FISHMAN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 2256 **HAMPTON UNIV** **9083**
 HAMPTON UNIV-COLLEGE OF CONTINUING EDUCATION AEROSCIENCE
 CENTER
 12/22/1999 - 11/30/2000 FY01: -\$4,460 Total: \$145,540
Prin. Invest.: C REEVES
Tech. Officer: LARC/S MOSENBERG
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 1 2318 **HAMPTON UNIV** **9084**
 THEORET & OBSERVAT'L DETERM OF GLOBAL & REGIONAL RADIATION
 BUDG, FORC'G & FEEDBACK TOP-OF-ATMOSPHERE
 07/18/2000 - 10/31/2003 FY01: \$463,052 Total: \$524,152
Prin. Invest.: N G LOEB
Tech. Officer: LARC/G G GIBSON
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 2331 **HAMPTON UNIV** **9085**
 THE AMERICAN INDIAN EDUCATIONAL OPPORTUNITIES 2000 PROGRAM
 09/29/2000 - 07/31/2002 FY01: \$0 Total: \$75,000
Prin. Invest.: R SCHWAN
Tech. Officer: LARC/R A HATHAWAY
CASE Category: 79 - SOCIAL SCIENCE, OTHER

NAG 1 01075 **HAMPTON UNIV** **9086**
 STATISTICAL METHODS FOR RAPID AEROTHERMAL ANALYSIS AND DESIGN
 TECHNOLOGY
 04/27/2001 - 01/09/2002 FY01: \$80,000 Total: \$80,000
Prin. Invest.: D J DEPRIEST, C B MORGAN
Tech. Officer: LARC/R A THOMPSON
CASE Category: 41 - AERONAUTICAL ENGR

NAG 1 01089 **HAMPTON UNIV** **9087**
 THE AMERICAN INDIAN EDUCATIONAL OPPORTUNITIES 2001 PROGRAM
 06/13/2001 - 06/10/2002 FY01: \$100,000 Total: \$100,000
Prin. Invest.: R SCHWAN
Tech. Officer: LARC/R A HATHAWAY
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 1 01096 **HAMPTON UNIV** **9088**
 TOP-OF-ATMOSPHERE ALBEDO ESTIMATION FROM POLDER MULTI-
 ANGLE MEASUREMENTS: EVALUATION OF WATER AND
 06/20/2001 - 05/31/2004 FY01: \$52,279 Total: \$52,279
Prin. Invest.: N G LOEB, Y HU
Tech. Officer: LARC/V E DELNORE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 2 1331 **HAMPTON UNIV** **9089**
 APPLIED CFD RESEARCH & TRAINING
 06/21/1999 - 06/14/2002 FY01: \$100,000 Total: \$300,000
Prin. Invest.: H HU
Tech. Officer: ARC/R C STRAWN
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2189 **HAMPTON UNIV** **9090**
 OPTICAL ELECTRONIC BRAGG REFLECTION SENSOR SYSTEM WITH
 HYDRODYNAMIC FLOW APPLICATIONS
 08/07/1998 - 05/30/2002 FY01: \$95,000 Total: \$439,999
Prin. Invest.: D R LYONS
Tech. Officer: GRC/D GRIFFIN
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2249 **HAMPTON UNIV** **9091**
 ADVANCED METHODS FOR AIRCRAFT ENGINE THRUST AND NOISE BENEFITS. NOZZLE-INLET FLOW ANALYSIS
 04/01/1999 - 01/26/2002 FY01: \$100,000 Total: \$300,000
Prin. Invest.: M H MORGAN
Tech. Officer: GRC/I BLANKSON
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2422 **HAMPTON UNIV** **9092**
 NUMERICAL SIMULATION OF ONE-AND TWO-PHASE FLOWS IN PROPULSION SYSTEMS
 05/31/2000 - 12/31/2002 FY01: \$100,000 Total: \$200,000
Prin. Invest.: M GILLINSKY
Tech. Officer: GRC/I M BLANKSON
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2495 **HAMPTON UNIV** **9093**
 CORRUGATED AND COMPOSED NOZZLES APPLICATION FOR THRUST AND JET NOISE BENEFITS VIA UEET PROGRAM
 10/27/2000 - 09/30/2003 FY01: \$125,000 Total: \$125,000
Prin. Invest.: D GILLINSKY
Tech. Officer: GRC/D W LAM
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2618 **HAMPTON UNIV** **9094**
 ANALYSIS OF ANTIOXIDANT AND PHOSPHOINOSITOL SIGNAL TRANSDUCTION PATHWAY (S) IN PLANTS AFTER EXPOSURE
 05/31/2001 - 04/30/2005 FY01: \$55,000 Total: \$55,000
Prin. Invest.: C M OKPODU
Tech. Officer: GRC/D W GRIFFIN
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 5299 **HAMPTON UNIV** **9095**
 DYNAMICAL INTERPRETATION OF AEROSOL INFLUENCES ON DOBSON SPECTROPHOTOMETER
 07/18/2000 - 08/31/2001 FY01: \$11,640 Total: \$49,078
Prin. Invest.: D P MCCORMICK
Tech. Officer: GSFC/F SCHMIDLIN
CASE Category: 12 - CHEMISTRY

NAG 5 6296 **HAMPTON UNIV** **9096**
 HAMPTON UNIV - OPTICAL RADIATION IN ATMOSPHERE
 09/19/1997 - 02/28/2001 FY01: \$0 Total: \$224,973
Prin. Invest.: D A TEMPLE
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 7001 **HAMPTON UNIV** **9097**
 STUDIES OF THE CLIMATOLOGY, LONG-TERM TRENDS, AND QUASI-BIENNIAL OSCILLATION OF CHEMICAL TRACERS IN
 04/07/1998 - 03/31/2001 FY01: \$0 Total: \$151,599
Prin. Invest.: D M RUSSELL, 111
Tech. Officer: GSFC/C JACKMAN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 8648 **HAMPTON UNIV** **9098**
 "PROPOSAL FOR MEMBERSHIP TO THE AEROSOL RADIATIVE FORCING SCIENCE TEAM"
 08/16/1999 - 01/31/2002 FY01: \$14,910 Total: \$44,730
Prin. Invest.: M MCCORMICK
Tech. Officer: GSFC/M I MISHCHENKO
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9156 **HAMPTON UNIV** **9099**
 PROGRAM FOR IMPROVING SUCCESS IN SCIENCE, ENGINEERING, AND MATHEMATICS (PRISEM)
 03/03/2000 - 02/28/2003 FY01: \$85,487 Total: \$183,864
Prin. Invest.: C RANKINS
Tech. Officer: GSFC/M STOUTSENBERGER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9171 **HAMPTON UNIV** **9100**
 STUDIES OF POLAR MESOSPHERIC CLOUDS FROM OBSERVATIONS BY THE STUDENT NITRIC OXIDE EXPLORER
 03/08/2000 - 02/28/2002 FY01: \$77,307 Total: \$149,307
Prin. Invest.: S M BAILEY
Tech. Officer: GSFC/M MELLOTT
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 10015 **HAMPTON UNIV** **9101**
 HAMPTON UNIV COLLEGE OF CONTINUING EDUCATION AEROSCIENCE CENTER
 09/21/2000 - 09/30/2001 FY01: \$250,000 Total: \$300,000
Prin. Invest.: C L REAVES
Tech. Officer: GSFC/C S PERSON
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10063 **HAMPTON UNIV** **9102**
 ANALYSIS OF STUDENT NITRIC OXIDE EXPLORER SOLAR X-RAY PHOTOMETER MEASUREMENTS
 11/15/2000 - 11/30/2001 FY01: \$35,000 Total: \$35,000
Prin. Invest.: S M BAILEY
Tech. Officer: GSFC/C P HOLMES
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10163 **HAMPTON UNIV** **9103**
 A SPACE SCIENCE CURRICULUM AT HAMPTON UNIV: DEVELOPMENT OF A MINOR, FACULTY ENHANCEMENT,
 12/13/2000 - 12/31/2001 FY01: \$244,997 Total: \$244,997
Prin. Invest.: S M BAILEY
Tech. Officer: GSFC/P SAKIMOTO
CASE Category: 11 - ASTRONOMY

NAG 5 10796 **HAMPTON UNIV** **9104**
 CONCEPT STUDY FOR THE "AERONOMY OF ICE IN THE MESOSPHERE" (AIM) MISSION AO-99-OSS-05
 05/01/2001 - 04/30/2002 FY01: \$347,116 Total: \$347,116
Prin. Invest.: D M RUSSELL
Tech. Officer: GSFC/J R BYRD
CASE Category: 11 - ASTRONOMY

NAG 5 11065 **HAMPTON UNIV** **9105**
 STUDIES OF CLIMATOLOGY & LONG-TERM CHANGES OF CHEMICAL TRACERS IN THE MIDDLE ATMOSPHERE USING UARS DATA & HALO
 06/28/2001 - 06/30/2002 FY01: \$44,492 Total: \$44,492
Prin. Invest.: J M RUSSELL
Tech. Officer: GSFC/C JACKMAN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 11126 **HAMPTON UNIV** **9106**
 AURORA 2001 (ADVANCED UNDERGRADUATE RESEARCH USING OPTICAL RADIATION IN THE ATMOSPHERE)
 07/18/2001 - 07/14/2002 FY01: \$75,000 Total: \$75,000
Prin. Invest.: J RUSSELL
Tech. Officer: GSFC/B W MEESON
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAS 1 97042 **HAMPTON UNIV** **9107**
 PRINCIPAL INVESTIGATOR SERVICES TO SUPPORT SAGE II AND III, SABER,
 HALOE, LITE AND LIDAR PROGRAMS.
 09/29/1997 – 09/30/2001 FY01: \$222,672 Total: \$1,119,104
Prin. Invest.: P MCCORMICK
Tech. Officer: LARC/R L DUNCAN/
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 1 99108 **HAMPTON UNIV** **9108**
 PICASSO-CENA INTERNATIONAL SCIENCE ADVISORY PANEL, SCIENCE
 ACTIVITIES, ALGORITHM IMPLEMENTATION& OU
 02/01/2000 – 01/31/2002 FY01: \$799,421 Total: \$1,749,171
Prin. Invest.: M P MCCORMICK, A H OMAR
Tech. Officer: LARC/G G GIBSON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 1 251 **HAMPTON UNIV** **9109**
 RESEARCH CENTER FOR OPTICAL PHYSICS MY 1/5
 03/18/1997 – 12/31/2001 FY01: \$1,218,999 Total: \$5,218,999
Prin. Invest.: D A TEMPLE
Tech. Officer: LARC/R HATHAWAY
CASE Category: 13 – PHYSICS

NCC 1 358 **HAMPTON UNIV** **9110**
 NASA-ASEE SUMMER FACULTY FELLOWSHIP PROGRAM 2000
 03/27/2000 – 12/31/2001 FY01: \$0 Total: \$584,055
Prin. Invest.: D DEPRIEST
Tech. Officer: LARC/R HATHAWAY
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NCC 1 366 **HAMPTON UNIV** **9111**
 DEVELOPMENT OF ADVANCED AIRCRAFT ANTENNA DESIGN AND ANAL-
 YSIS TECHNIQUES
 01/11/2000 – 12/31/2002 FY01: \$1 Total: \$77,034
Prin. Invest.: A O OLADIPUPO, C J REDDY, NONE
Tech. Officer: LARC/F B BECK, LARC/M C BAILEY
CASE Category: 45 – ELECTRICAL ENGR

NCC 1 379 **HAMPTON UNIV** **9112**
 2000 LANGLEY AEROSCIENCE RESEARCH SUMMER SCHOLARS PROGRAM
 (LARSS)
 03/02/2000 – 03/02/2001 FY01: \$22,797 Total: \$833,950
Prin. Invest.: C LOWE
Tech. Officer: LARC/R A HATHAWAY, LARC/C T PRIOR
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NCC 1 01034 **HAMPTON UNIV** **9113**
 2001 LANGLEY AEROSCIENCE RESEARCH SUMMER SCHOLARS (LARSS)
 PROGRAM
 03/20/2001 – 03/02/2002 FY01: \$885,074 Total: \$885,074
Prin. Invest.: R SCHWAN
Tech. Officer: LARC/R A HATHAWAY
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NCC 1 01059 **HAMPTON UNIV** **9114**
 CENTER FOR LIDAR & ATMOSPHERIC SCIENCES STUDENTS (FORMERLY
 GSFC NCC-5-348)
 08/22/2001 – 06/30/2003 FY01: \$500,000 Total: \$500,000
Prin. Invest.: D A TEMPLE, A OMAR
Tech. Officer: LARC/R A HATHAWAY
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 5 348 **HAMPTON UNIV** **9115**
 CENTER FOR LIDAR AND ATMOSPHERIC SCIENCES STUDENTS
 06/29/1998 – 06/30/2003 FY01: \$0 Total: \$1,495,533
Prin. Invest.: D A TEMPLE
Tech. Officer: HQ/B WHITE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 2 52261 **HAMPTON UNIV** **9116**
 DEVELOPMENT OF AN ASTROBIOLOGY EDUCATION CURRICULUM AT
 HAMPTON UNIV
 12/06/1999 – 10/31/2001 FY01: \$103,000 Total: \$199,877
Prin. Invest.: B FAISON
Tech. Officer: ARC/D DESMARAIS
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NGT 3 52354 **HAMPTON UNIV** **9117**
 UV INDUCED DENSIFICATION AND ABLATION DURING THE FORMATION OF
 BRAGG GRATINGS IN GE-DOPED SiO2 PREFO
 06/25/1999 – 06/30/2001 FY01: \$21,850 Total: \$65,850
Prin. Invest.: D R LYONS
Tech. Officer: GRC/F J MONTEGANI
CASE Category: 13 – PHYSICS

NAG 1 2155 **JAMES MADISON UNIV** **9118**
 CHAOS AND THERMAL SCIENCES LABORATORY (CATS LAB) MY 1/3
 03/05/1999 – 12/31/2001 FY01: \$0 Total: \$89,892
Prin. Invest.: A A TEATE
Tech. Officer: LARC/R A HATHAWAY
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 1 2186 **JAMES MADISON UNIV** **9119**
 INFRARED DEVELOPMENT AND TESTING LABORATORY WITH DEVELOP-
 MENT OF ATMOSPHERIC CO IMAGING INSTRUMENT
 04/29/1999 – 02/28/2002 FY01: \$0 Total: \$141,800
Prin. Invest.: J J MILES
Tech. Officer: LARC/A D LITTLE
CASE Category: 49 – ENGINEERING, OTHER

NAG 1 01093 **JAMES MADISON UNIV** **9120**
 DETERMINATION OF MATL NEAR THE GLASS TRANSITION TEMPERATURE
 FOR AN ISOGRID BOOM
 06/25/2001 – 11/30/2001 FY01: \$14,974 Total: \$14,974
Prin. Invest.: J R BLANDINO
Tech. Officer: LARC/J A WOODS-VEDELER
CASE Category: 41 – AERONAUTICAL ENGR

NAG 5 10701 **JAMES MADISON UNIV** **9121**
 DEVELOPMENT OF TEST TECHNOLOGY FOR THIN-FILM MEMBRANE
 STRUCTURES
 04/05/2001 – 04/14/2002 FY01: \$49,965 Total: \$49,965
Prin. Invest.: J BLANDINO
Tech. Officer: GSFC/J JOHNSON
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NCC 1 394 **MARY WASHINGTON COLLEGE** **9122**
 A PROPOSAL FOR THE ESTABLISHMENT OF A CENTER FOR EXPERI-
 MENTAL AERODYNAMICS (CEA)
 04/24/2000 – 03/31/2005 FY01: \$240,820 Total: \$340,820
Prin. Invest.: C P BRITCHER, R L ASH, R L ASH
Tech. Officer: LARC/J C YU
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 1944 **NORFOLK STATE UNIV** **9123**
 VISUALIZATION OF ATMOSPHERIC WATER VAPOR DATA FOR SAGE
 06/09/1997 – 12/29/2000 FY01: \$0 Total: \$282,643
Prin. Invest.: M KUNG
Tech. Officer: LARC/W P CHU
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 1948 **NORFOLK STATE UNIV** **9124**
 RURAL OUTREACH PROGRAM
 06/19/1997 – 06/30/2000 FY01: -\$31,509 Total: \$328,491
Prin. Invest.: C COLEMAN
Tech. Officer: LARC/S CANRIGHT, LARC/E PRIOR
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 1 2125 **NORFOLK STATE UNIV** **9125**
 TECHNICAL EDUCATION OUTREACH MATERIALS SCIENCE AND
 TECHNOLOGY BASED ON NASAS MATERIALS RESEARCH
 01/12/1999 – 12/31/2001 FY01: \$44,000 Total: \$119,000
Prin. Invest.: J JACOBS, S R CHAUDHURY
Tech. Officer: LARC/E T PRIOR, LARC/R HATHAWAY
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 1 2172 **NORFOLK STATE UNIV** **9126**
 DEVELOPMENT OF SOLID-STATE LASER MATERIALS FOR APPLICATION IN
 LASERS FOR ATMOSPHERIC OZONE & WATER
 03/30/1999 – 12/31/2001 FY01: \$0 Total: \$100,000
Prin. Invest.: M NOGINOV, G LOUITS
Prin. Invest.: NONE
Tech. Officer: LARC/N P BARNES, LARC/J C BARNES
CASE Category: 13 – PHYSICS

NAG 1 2226 **NORFOLK STATE UNIV** **9127**
 PORTSMOUTH ATMOSPHERIC SCIENCE SCHOOL PROJECT (PASS)
 08/24/1999 – 07/31/2002 FY01: \$0 Total: \$199,728
Prin. Invest.: C COLEMAN
Tech. Officer: LARC/R A HATHAWAY
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 2228 **NORFOLK STATE UNIV** **9128**
 NONSELECTIVE ROOMTEMPERATURE MICROBOLOMETERS BASED ON
 CMB THIN FILMS
 08/30/1999 – 07/31/2001 FY01: \$73,412 Total: \$196,520
Prin. Invest.: E S GILLMAN
Tech. Officer: LARC/J C BARNES
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 2230 **NORFOLK STATE UNIV** **9129**
 PRE-SERVICE TEACHER CONFERENCE MY 1/2
 09/03/1999 – 07/31/2001 FY01: -\$21,000 Total: \$204,000
Prin. Invest.: P TUCKER-HOGAN
Tech. Officer: LARC/R A HATHAWAY
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 01127 **NORFOLK STATE UNIV** **9130**
 THE CHROME HONORS PROGRAM
 09/26/2001 – 09/30/2002 FY01: \$50,000 Total: \$50,000
Prin. Invest.: E WILSON
Tech. Officer: LARC/R HATHAWAY
CASE Category: 41 – AERONAUTICAL ENGR

NAG 3 2289 **NORFOLK STATE UNIV** **9131**
 NOVEL HIGH EFFICIENT ORGANIC PHOTOVOLTAIC MATERIAL S
 08/30/1999 – 07/21/2001 FY01: \$0 Total: \$299,816
Prin. Invest.: S SUN
Tech. Officer: GRC/A F HEPP
CASE Category: 12 – CHEMISTRY

NAG 4 165 **NORFOLK STATE UNIV** **9132**
 VARIATIONAL METHOD IN DESIGN OPTIMIZATION
 02/26/1999 – 02/26/2002 FY01: \$91,845 Total: \$293,464
Prin. Invest.: D HULBERT
Tech. Officer: DFRC/K GUPTA, DFRC/E COX
CASE Category: 41 – AERONAUTICAL ENGR

NAG 5 6298 **NORFOLK STATE UNIV** **9133**
 NORFOLK STATE UNIV RESEARCH EXPERIENCE IN EA
 09/15/1997 – 07/31/2002 FY01: \$75,608 Total: \$223,270
Prin. Invest.: W J RODRIGUEZ
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 8541 **NORFOLK STATE UNIV** **9134**
 SUMMER WORKSHOP PROGRAM TO PROVIDE EMERGING EDUCATORS
 WITH THE FAMILIARITY & KNOWLEDGE TO UTILIZE IN C
 05/12/1999 – 05/14/2002 FY01: \$20,346 Total: \$40,295
Prin. Invest.: S CHAUDHURY
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 8653 **NORFOLK STATE UNIV** **9135**
 DESIGN AND PERFORMANCE TESTS OF ULTRA-COMPACT CALORIMETERS
 FOR HIGH ENERGY ASTROPHYSICS
 08/19/1999 – 07/31/2002 FY01: \$80,075 Total: \$279,385
Prin. Invest.: C W SALGADO
Tech. Officer: GSFC/R E STREITMATTER
CASE Category: 13 – PHYSICS

NAG 5 9257 **NORFOLK STATE UNIV** **9136**
 BRINGING EDUCATION & SCIENCE TOGETHER FOR SYSTEMIC TRAINING &
 EMPOWERMENT OF PRESERVICE TEACHERS
 03/15/2000 – 02/28/2002 FY01: \$199,832 Total: \$379,977
Prin. Invest.: G GOLEMBIEWSKI
Tech. Officer: GSFC/B L WHITE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 9374 **NORFOLK STATE UNIV** **9137**
 SCENARIO BASED LEARNING: INQUIRY FOR A DIGITAL EARTH
 04/05/2000 – 03/31/2002 FY01: \$77,461 Total: \$172,370
Prin. Invest.: W J RODRIGUEZ
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 10140 **NORFOLK STATE UNIV** **9138**
 A NASA-HBCU PARTNERSHIP TO ENHANCE MINORITY EDUCATION &
 RESEARCH PARTICIPATION IN THE SPACE SCIENCE
 12/12/2000 – 12/31/2001 FY01: \$203,891 Total: \$203,891
Prin. Invest.: C W SALGADO
Tech. Officer: GSFC/P SAKIMOTO
CASE Category: 11 – ASTRONOMY

<p>NCC 1 280 NORFOLK STATE UNIV 9139 FEASIBILITY STUDY OF PIEZOELECTRIC ACTUATORS DRIVE N BY A MICRO-WAVE 03/06/1998 – 03/05/2002 FY01: \$0 Total: \$300,000 <i>Prin. Invest.:</i> K D SONG <i>Tech. Officer:</i> LARC/S H CHOI <i>CASE Category:</i> 46 – MECHANICAL ENGR</p>	<p>NCC 5 514 NORFOLK STATE UNIV 9147 DEVELOPMENT OF NOVEL COMPOSITE & RANDOM MATERIALS FOR NONLINEAR OPTICS & LASERS 08/31/2000 – 03/31/2001 FY01: -\$450,044 Total: \$49,956 <i>Prin. Invest.:</i> L MATTIX <i>Tech. Officer:</i> GSFC/C PERSON <i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER</p>
<p>NCC 1 338 NORFOLK STATE UNIV 9140 1999 SUMMER PRE-SERVICE TEACHER ENHANCEMENT INST 04/15/1999 – 03/31/2000 FY01: -\$25,719 Total: \$220,253 <i>Prin. Invest.:</i> R TUCKER-HOGAN, R CHAUCHURY <i>Tech. Officer:</i> LARC/R A HATHAWAY, LARC/E J PRIOR <i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER</p>	<p>NAG 1 1982 OLD DOMINION UNIV 9148 FINITE ELEMENT ANALYSIS OF REVERBERATION CHAMBERS MY 1/3 12/15/1997 – 12/31/2000 FY01: \$9,588 Total: \$193,508 <i>Prin. Invest.:</i> C F BUNTING, D T NGUYEN <i>Tech. Officer:</i> LARC/K J MOELLER <i>CASE Category:</i> 45 – ELECTRICAL ENGR</p>
<p>NCC 1 391 NORFOLK STATE UNIV 9141 2000 – PRE-SERVICE TEACHER ENHANCEMENT INST 04/13/2000 – 03/31/2001 FY01: -\$46,887 Total: \$200,147 <i>Prin. Invest.:</i> P TUCKER-HOGAN <i>Tech. Officer:</i> LARC/R A HATHAWAY <i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER</p>	<p>NAG 1 2100 OLD DOMINION UNIV 9149 TRANSITION IN SUPERSONIC FLOWS WITH CORNERS 08/11/1998 – 12/31/2000 FY01: -\$145 Total: \$62,264 <i>Prin. Invest.:</i> P BALAKUMAR <i>Tech. Officer:</i> LARC/C R MCCLINTON, LARC/D E REUBUSH <i>CASE Category:</i> 41 – AERONAUTICAL ENGR</p>
<p>NCC 1 01049 NORFOLK STATE UNIV 9142 DEVELOPMENT OF NOVEL COMPOSITE AND RANDOM MATERIAL FOR NONLINEAR OPTICS AND LASERS – TRANSFER FROM 06/06/2001 – 09/14/2004 FY01: \$420,000 Total: \$420,000 <i>Prin. Invest.:</i> L MATTIX <i>Tech. Officer:</i> LARC/J C BARNES <i>CASE Category:</i> 47 – METAL & MATERIALS ENGR</p>	<p>NAG 1 2101 OLD DOMINION UNIV 9150 THE INFLUENCE OF NAT. CULTURE ON FLT CREW PERF: A CULTURE-CENTERED APPROACH TO HUMAN FACTORS 08/25/1998 – 08/31/2000 FY01: -\$12,019 Total: \$72,955 <i>Prin. Invest.:</i> D DAVIS <i>Tech. Officer:</i> LARC/P C SCHUTTE <i>CASE Category:</i> 62 – PSYCHOLOGY SOCIAL ASPECTS</p>
<p>NCC 1 01053 NORFOLK STATE UNIV 9143 2001 PRE-SERVICE TEACHER INST 05/10/2001 – 03/31/2002 FY01: \$225,000 Total: \$225,000 <i>Prin. Invest.:</i> P TUCKER-HOGAN <i>Tech. Officer:</i> LARC/R A HATHAWAY <i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER</p>	<p>NAG 1 2141 OLD DOMINION UNIV 9151 EXPERIMENTAL & NUMERICAL ANALYSIS OF STRUCTURAL ACOUSTIC CONTROL FOR INTERIOR NOISE REDUCTION 02/03/1999 – 05/15/2000 FY01: -\$88 Total: \$59,912 <i>Prin. Invest.:</i> C MEI <i>Tech. Officer:</i> LARC/T L TURNER, LARC/K P SHEPHERD <i>CASE Category:</i> 41 – AERONAUTICAL ENGR</p>
<p>NCC 1 01055 NORFOLK STATE UNIV 9144 MISSION-LEVERAGED EDUCATION: NSU-NASA INNOVATIVE UNDERGRADUATE MODEL MILENIUM A NASA PAIR PROJECT 06/29/2001 – 02/28/2002 FY01: \$297,940 Total: \$297,940 <i>Prin. Invest.:</i> W RODRIGUEZ <i>Tech. Officer:</i> LARC/R A HATHAWAY <i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER</p>	<p>NAG 1 2143 OLD DOMINION UNIV 9152 OBJECT-ORIENTED APPROACH TO HIGHER-LEVEL NETWORK MONITORING AND MAMAGEMENT 02/01/1999 – 05/30/2000 FY01: -\$3 Total: \$31,214 <i>Prin. Invest.:</i> R MUKKAMALA <i>Tech. Officer:</i> LARC/E SIMAN-TOV <i>CASE Category:</i> 22 – COMPUTER SCIENCE</p>
<p>NCC 1 01057 NORFOLK STATE UNIV 9145 2001 PRE-SERVICE TEACHER CONFERENCE 08/14/2001 – 07/31/2002 FY01: \$150,029 Total: \$150,029 <i>Prin. Invest.:</i> P E MCNEIL, S PROCTOR <i>Tech. Officer:</i> LARC/R HATHAWAY, LARC/E J PRIOR <i>CASE Category:</i> 41 – AERONAUTICAL ENGR</p>	<p>NAG 1 2150 OLD DOMINION UNIV 9153 PANEL FLUTTER AND SONIC FATIGUE ANALYSIS FOR RLV 02/09/1999 – 09/30/2000 FY01: -\$13 Total: \$44,987 <i>Prin. Invest.:</i> C MEI <i>Tech. Officer:</i> LARC/M L BLOSSER, LARC/S J SCOTTI <i>CASE Category:</i> 41 – AERONAUTICAL ENGR</p>
<p>NCC 5 457 NORFOLK STATE UNIV 9146 MISSION-LEVERAGED EDUCATION: NSU-NASA INNOVATIVE UNDERGRADUATE MODEL 02/22/2000 – 03/31/2001 FY01: \$0 Total: \$292,845 <i>Prin. Invest.:</i> L MATTIX <i>Tech. Officer:</i> GSFC/M MATTHEWS <i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER</p>	<p>NAG 1 2195 OLD DOMINION UNIV 9154 PROCESS COST MODELING FOR MULTIDISCIPLINARY DESIGN APPLICATIONS 05/21/1999 – 03/31/2002 FY01: \$60,000 Total: \$145,000 <i>Prin. Invest.:</i> H P BAO <i>Tech. Officer:</i> LARC/W T FREEMAN <i>CASE Category:</i> 41 – AERONAUTICAL ENGR</p>

NAG 1 2211 **OLD DOMINION UNIV** **9155**
 DEVELOPMENT OF A TRANSIENT CUT-OFF GRID FOR FOCUS SCHLIEREN
 07/12/1999 – 06/14/2002 FY01: \$0 Total: \$26,000
Prin. Invest.: G R HOY, K S SCHANZE
Tech. Officer: LARC/M A TALLEY, LARC/A W BURNER
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 1 2251 **OLD DOMINION UNIV** **9156**
 DISTURBANCE DYNAMICS IN TRANSITIONAL & TURBULENT BOUNDARY
 LAYERS
 11/23/1999 – 11/01/2000 FY01: -\$1,097 Total: \$25,903
Prin. Invest.: C E GROSCH
Tech. Officer: LARC/T B GATSKI
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 2252 **OLD DOMINION UNIV** **9157**
 USER ACCEPTABILITY OF PHYSIOLOGICAL AND OTHER MEASURES OF
 HAZARDOUS STATES OF AWARENESS
 11/23/1999 – 02/28/2001 FY01: \$0 Total: \$29,180
Prin. Invest.: T L DICKINSON, F G FREEMAN, P M MIKULKA
Tech. Officer: LARC/A T POPE
CASE Category: 69 – PSYCHOLOGY, OTHER

NAG 1 2254 **OLD DOMINION UNIV** **9158**
 EXTERNAL VALIDITY CONSIDERATIONS OF A BIOCYBER NETIC SYSTEM
 FOR ADAPTIVE AUTOMATION
 11/23/1999 – 12/31/2000 FY01: -\$569 Total: \$15,644
Prin. Invest.: M W SCERBO, P J MIKULKA, F G FREEMAN
Tech. Officer: LARC/A T POPE
CASE Category: 69 – PSYCHOLOGY, OTHER

NAG 1 2265 **OLD DOMINION UNIV** **9159**
 DUCTED FAN NOISE PREDICTION -- ENHANCEMENT TO TRIEM3D AND
 APPLICATIONS
 02/01/2000 – 08/30/2000 FY01: -\$13 Total: \$51,153
Prin. Invest.: M H DUNN, J TWEED
Tech. Officer: LARC/F FARASSAT, LARC/J W POSEY
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 2266 **OLD DOMINION UNIV** **9160**
 NUMERICAL SIMULATIONS OF MIXING AND COMBUSTION IN SCRAMJET
 ENGINES
 01/31/2000 – 12/31/2002 FY01: \$39,734 Total: \$77,991
Prin. Invest.: S W TIWARI, T O MOHIELDIN
Tech. Officer: LARC/D E REUBUSH, LARC/C R MCCLINTON
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 2278 **OLD DOMINION UNIV** **9161**
 IMPLICATIONS OF AUTOMOTIVE AND TRUCKING ON-BOARD INFORMATION
 SYSTEMS FOR GENERAL AVIATION COCKPIT
 03/15/2000 – 03/31/2002 FY01: \$0 Total: \$45,380
Prin. Invest.: P KACHROO, P J KAUFFMAN
Tech. Officer: LARC/E J JOHNSON/H P STOUGH
CASE Category: 41 – AERONAUTICALENGNR

NAG 1 2279 **OLD DOMINION UNIV** **9162**
 DESIGN & ANALYSIS OF ARCHITECTURES FOR STRUCTURAL HEALTH
 MONITORING SYSTEMS
 03/13/2000 – 02/28/2002 FY01: \$50,458 Total: \$92,995
Prin. Invest.: R MUKKAMALA
Tech. Officer: LARC/S L VAZQUEZ/E G COOPER
CASE Category: 22 – COMPUTER SCIENCE

NAG 1 2289 **OLD DOMINION UNIV** **9163**
 NOISE PREDICTION FOR ADVANCED ENGINE/AIRFRAME CONFIGURATIONS
 USING THE EQUIVALENT SOURCE METHOD
 04/04/2000 – 03/03/2001 FY01: \$0 Total: \$139,831
Prin. Invest.: J TWEED, M H DUNN
Tech. Officer: LARC/R A GOLUB/D P GARBER
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 2294 **OLD DOMINION UNIV** **9164**
 COMPARISON OF FATIGUE LIFE ESTIMATION USING EQUIVA LENT LINEA-
 RIZATION & TIME DOMAIN SIMULATION METHO
 05/03/2000 – 09/30/2000 FY01: \$0 Total: \$12,000
Prin. Invest.: C MEI
Tech. Officer: LARC/S A RIZZI, LARC/K P SHEPHERD
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 2297 **OLD DOMINION UNIV** **9165**
 N-FACTOR COMPUTATIONS FOR THE X-33 VEHICLE
 06/01/2000 – 10/31/2000 FY01: -\$3 Total: \$27,401
Prin. Invest.: P BALAKUMAR
Tech. Officer: LARC/H H HAMILTON
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 2300 **OLD DOMINION UNIV** **9166**
 STRUCTURE-COMPATIBLE NONLINEAR HEAT TRANSFER ANAL.ERROR
 ESTIMATEDS, ORDER ADAPTIVITY & DESIGN OPTIMI
 05/26/2000 – 05/14/2003 FY01: \$60,000 Total: \$95,000
Prin. Invest.: G HOU
Tech. Officer: LARC/K S BEY
CASE Category: 49 – ENGINEERING, OTHER

NAG 1 2303 **OLD DOMINION UNIV** **9167**
 NATIONAL CULTURE, CREW RESOURCES MANAGEMENT, AND TEAM
 PERFORMANCE IN A FLOGHT SIMULATION
 06/02/2000 – 05/15/2003 FY01: \$146,952 Total: \$229,952
Prin. Invest.: D D DAVIS
Tech. Officer: LARC/P C SHUTTIE, LARC/A C TRUJILLO
CASE Category: 62 – PSYCHOLOGY SOCIAL ASPECTS

NAG 1 2315 **OLD DOMINION UNIV** **9168**
 MANAGEMENT (BY VSGC) OF THE 2000 NATIONAL GENERAL AVIATION
 DESIGN COMPETITION (AWARDS AT OSHKOSH)
 06/28/2000 – 09/30/2000 FY01: -\$2,251 Total: \$67,120
Prin. Invest.: M L SANDY
Tech. Officer: LARC/H W JARRETT III
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 2323 **OLD DOMINION UNIV** **9169**
 AN APPROACH TO THE REUSE OF TECHNICAL MATERIALS FOR EDUCA-
 TIONAL PURPOSES
 08/25/2000 – 01/31/2001 FY01: -\$267 Total: \$29,322
Prin. Invest.: I B LEVINSTEIN
Tech. Officer: LARC/W H BRYANT, LARC/C L HARRELL
CASE Category: 22 – COMPUTER SCIENCE

NAG 1 2330 **OLD DOMINION UNIV** **9170**
 INVESTIGATION OF ERROR PATTERNS IN GEOGRAPHICAL DATABASES
 09/29/2000 – 07/31/2002 FY01: \$74,678 Total: \$79,678
Prin. Invest.: D A DRYER, P KAUFFMAN
Tech. Officer: LARC/D R JONES, LARC/P W GOODE
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 1 01012	OLD DOMINION UNIV	9171	NAG 1 01076	OLD DOMINION UNIV	9179
MODELING DISTURBANCE DYNAMICS IN TRANSITIONAL AND TURBULENT BOUNDARY LAYERS			PARALLEL COMPUTATIONAL STUDIES OF THE DIRECT SIMULATION MONTE CARLO METHOD IN FLUID DYNAMICS		
12/20/2000 – 10/31/2001	FY01: \$27,000	Total: \$27,000	05/16/2001 – 05/31/2004	FY01: \$34,618	Total: \$34,618
<i>Prin. Invest.:</i> C E GROSCH			<i>Prin. Invest.:</i> D E KEYES, P BOGACKI		
<i>Tech. Officer:</i> LARC/T B GATSKI			<i>Tech. Officer:</i> LARC/J N MOSS		
<i>CASE Category:</i> 41 – AERONAUTICAL ENGR			<i>CASE Category:</i> 22 – COMPUTER SCIENCE		
NAG 1 01028	OLD DOMINION UNIV	9172	NAG 1 01077	OLD DOMINION UNIV	9180
NONLINEAR AND FAILURE ANALYSIS OF COMPOSITE STRUCTURES			DEV NUMERICAL MODELS 4 PERF PREDICTIONS OF SINGLE PHOTON AVALANCHE PHOTODETECTORS 4 2-MICRON REGIME		
02/05/2001 – 12/31/2001	FY01: \$60,000	Total: \$60,000	05/16/2001 – 12/31/2001	FY01: \$20,000	Total: \$20,000
<i>Prin. Invest.:</i> A K NOOR			<i>Prin. Invest.:</i> R P JOSHI		
<i>Tech. Officer:</i> LARC/J H STARNES, JR			<i>Tech. Officer:</i> GSFC/M N ABEDIN		
<i>CASE Category:</i> 41 – AERONAUTICAL ENGR			<i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE		
NAG 1 01033	OLD DOMINION UNIV	9173	NAG 1 01086	OLD DOMINION UNIV	9181
PARALLEL DOMAIN DECOMPOSITION FORMULATION AND SOFTWARE FOR LARGE-SCALE UNSYMMETRICAL 3D APPLICATI			REDUCING DESIGN RISK USING DESIGN METHODS		
02/22/2001 – 01/14/2004	FY01: \$30,000	Total: \$30,000	05/17/2001 – 03/17/2002	FY01: \$9,988	Total: \$9,988
<i>Prin. Invest.:</i> D T NGUYEN			<i>Prin. Invest.:</i> R UNAL		
<i>Tech. Officer:</i> LARC/W R WATSON, LARC/M G JONES			<i>Tech. Officer:</i> LARC/R A LEPSCH		
<i>CASE Category:</i> 41 – AERONAUTICAL ENGR			<i>CASE Category:</i> 41 – AERONAUTICAL ENGR		
NAG 1 01043	OLD DOMINION UNIV	9174	NAG 1 01092	OLD DOMINION UNIV	9182
ULTRA NANOSTRUCTURED COMPOSITE FIBERS			ERROR ANALYSIS FOR DISCONTINUOUS GALERKIN METHOD FOR PARABOLIC PROBLEMS		
03/26/2001 – 03/25/2004	FY01: \$80,000	Total: \$80,000	06/27/2001 – 06/30/2003	FY01: \$20,000	Total: \$20,000
<i>Prin. Invest.:</i> R B PIPES			<i>Prin. Invest.:</i> H KANEKO, NONE		
<i>Tech. Officer:</i> LARC/T S GATES			<i>Tech. Officer:</i> LARC/K S BEY		
<i>CASE Category:</i> 47 – METAL & MATERIALS ENGR			<i>CASE Category:</i> 21 – MATHEMATICS		
NAG 1 01044	OLD DOMINION UNIV	9175	NAG 1 01097	OLD DOMINION UNIV	9183
INVESTIGATION WAVE PROPAGATIONS IN DISCONTINUOUS GALERKIN METHOD			A PROJECT DEV MODEL FOR ASSESSING THE FEAS OF AUTO MOTIVE-TRUCKING INFO SYS W/APPLICS TO GEN AVIATIO		
03/26/2001 – 02/28/2004	FY01: \$19,021	Total: \$19,021	06/29/2001 – 06/30/2002	FY01: \$59,990	Total: \$59,990
<i>Prin. Invest.:</i> F HU			<i>Prin. Invest.:</i> P J KAUFFMANN, P KACHROO		
<i>Tech. Officer:</i> LARC/H L ATKINS			<i>Tech. Officer:</i> LARC/E J JOHNSON, LARC/H P STOUGH		
<i>CASE Category:</i> 41 – AERONAUTICAL ENGR			<i>CASE Category:</i> 41 – AERONAUTICAL ENGR		
NAG 1 01047	OLD DOMINION UNIV	9176	NAG 1 01121	OLD DOMINION UNIV	9184
MANAGEMENT (BY VSGC) OF 2000-2001 NATIONAL GENERAL AVIATION DESIGN COMPETITION			YOUNG PHD'S IN HUMAN SPACE FLIGHT INST		
04/12/2001 – 09/30/2001	FY01: \$25,000	Total: \$25,000	08/31/2001 – 08/31/2002	FY01: \$29,852	Total: \$29,852
<i>Prin. Invest.:</i> M L SANDY			<i>Prin. Invest.:</i> E WILSON		
<i>Tech. Officer:</i> LARC/H W JARRETT			<i>Tech. Officer:</i> LARC/R HATHAWAY		
<i>CASE Category:</i> 41 – AERONAUTICAL ENGR			<i>CASE Category:</i> 41 – AERONAUTICAL ENGR		
NAG 1 01068	OLD DOMINION UNIV	9177	NAG 2 1319	OLD DOMINION UNIV	9185
NOISE PREDICTION FOR ADVANCED AIRCRAFT CONFIGUR- ATIONS USING THE EQUIVALENT SOURCE METHOD			PRELIMINARY ANALYSIS OF PHOTOREADING		
04/23/2001 – 04/22/2003	FY01: \$90,000	Total: \$90,000	04/21/1999 – 09/30/1999	FY01: -\$10	Total: \$9,955
<i>Prin. Invest.:</i> M H DUNN			<i>Prin. Invest.:</i> D S MCNAMARA		
<i>Tech. Officer:</i> LARC/D P GARBER, LARC/R A GOLUB			<i>Tech. Officer:</i> ARC/I BARSHI		
<i>CASE Category:</i> 29 – MATH/COMPUTER SCI, OTHER			<i>CASE Category:</i> 69 – PSYCHOLOGY, OTHER		
NAG 1 01071	OLD DOMINION UNIV	9178	NAG 2 1481	OLD DOMINION UNIV	9186
MODIFICATION OF EXISTING METHOD OF MOMENT CODE FOR LARGE OBJECTS USING PHYSICAL OPTICS			DATA-LINK AIRCRAFT COMMUNICATIONS: AN EXAMINATION OF INTER-FERENCE, COHERENCE, & WORKLOAD		
04/20/2001 – 05/31/2002	FY01: \$30,212	Total: \$30,212	05/04/2001 – 04/30/2002	FY01: \$80,000	Total: \$80,000
<i>Prin. Invest.:</i> R P JOSHI			<i>Prin. Invest.:</i> D S MCNAMARA, M SCERBO		
<i>Tech. Officer:</i> LARC/M D DESHBANDE			<i>Tech. Officer:</i> ARC/I BARSHI, ARC/S LOZITO		
<i>CASE Category:</i> 45 – ELECTRICAL ENGR			<i>CASE Category:</i> 69 – PSYCHOLOGY, OTHER		

NAG 3 2483 **OLD DOMINION UNIV** **9187**
 THREE DIMENSIONAL THERMAL SIMULATION STUDIES OF SI C JUNCTION
 DIODES CONTAINING SCREW DISLOCATIONS U
 08/18/2000 - 12/31/2000 FY01: \$0 Total: \$20,916
Prin. Invest.: D P JOSHI
Tech. Officer: GRC/P G NEUDECK
CASE Category: 45 - ELECTRICAL ENGR

NAG 5 4515 **OLD DOMINION UNIV** **9188**
 STUDYING THE EARTH'S ENVIRONMENT IN SPACE: CLASSR ACTIVITIES
 WITH INSTRUCTION RESOURCES.
 06/02/1997 - 12/31/2000 FY01: \$0 Total: \$166,896
Prin. Invest.: E SMITH
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 5131 **OLD DOMINION UNIV** **9189**
 INVOLVING STUDENTS IN THE DESIGNING AND DEVELOPING OF A SCIEN-
 TIFIC BALLOON PAYLOAD-BALLOONLAUNCH PR
 07/02/1997 - 03/31/2000 FY01: \$0 Total: \$35,000
Prin. Invest.: A PIERCE
Tech. Officer: GSFC/H NEEDLEMAN
CASE Category: 12 - CHEMISTRY

NAG 5 10528 **OLD DOMINION UNIV** **9190**
 RESPONSE OF SEA ICE AND MARINE ECOSYSTEMS TO THE OBSERVED
 WARMING TRENDS IN THE ARTIC
 03/19/2001 - 03/14/2002 FY01: \$116,806 Total: \$116,806
Prin. Invest.: G F COTA
Tech. Officer: GSFC/J MARRA
CASE Category: 33 - OCEANOGRAPHY

NAG 5 11259 **OLD DOMINION UNIV** **9191**
 PHYSICAL BIOLOGICAL INTERACTIONS AND THE CARBON CYCLE OF THE
 TROPICAL PACIFIC AND ATLANTIC OCEANS
 08/20/2001 - 08/31/2004 FY01: \$92,899 Total: \$92,899
Prin. Invest.: E HOFMANN
Tech. Officer: GSFC/J MARRA
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1813 **OLD DOMINION UNIV** **9192**
 RESEARCH GRANT
 04/30/2001 - 01/31/2002 FY01: \$20,000 Total: \$20,000
Prin. Invest.: R PRABHAKARAN
Tech. Officer: MSFC/A T NETTLES
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 9 1270 **OLD DOMINION UNIV** **9193**
 VIRTUAL REALITY TRAINING
 12/18/2000 - 12/18/2003 FY01: \$96,246 Total: \$96,246
Prin. Invest.: R LOFTIN
Tech. Officer: JSC/R SAVEDY, JSC/D G SICKKOREZ
CASE Category: 22 - COMPUTER SCIENCE

NAS 1 99160 **OLD DOMINION UNIV** **9194**
 TESTBED OF INTEROPERABLE MULTIDISCIPLINARY DIGITAL LIBRARIES
 09/22/1999 - 09/21/2002 FY01: \$284,000 Total: \$497,970
Prin. Invest.: K MALY
Tech. Officer: LARC/M M LITTLE, LARC/N R KAPLAN
CASE Category: 22 - COMPUTER SCIENCE

NAS 5 97132 **OLD DOMINION UNIV** **9195**
 REMOTE SENSING OF OCEAN COLOR IN THE ARCTIC
 09/01/1997 - 02/28/2001 FY01: \$0 Total: \$640,608
Prin. Invest.: G F COTA
Tech. Officer: GSFC/C MCCLAIN
CASE Category: 33 - OCEANOGRAPHY

NCA 1 188 **OLD DOMINION UNIV** **9196**
 VA SPACE GRANT CONSORTIUM ENVIRONMENT IMPACT
 08/04/2000 - 10/31/2001 FY01: \$15,000 Total: \$75,000
Prin. Invest.: M L SANDY
Tech. Officer: LARC/S A COOKE
CASE Category: 41 - AERONAUTICAL ENGR

NCC 1 227 **OLD DOMINION UNIV** **9197**
 INVESTIGATION OF ADVANCED COMPOSITE MATERIALS AND AUTOMATED
 PROCESS
 05/17/1996 - 09/30/2000 FY01: -\$9,068 Total: \$730,725
Prin. Invest.: S TIWARI
Tech. Officer: LARC/N J JOHNSTON, LARC/R J CANO
CASE Category: 46 - MECHANICAL ENGR

NCC 1 320 **OLD DOMINION UNIV** **9198**
 STUDY OF APPLICATION OF GREEN'S FUNCTION METHODS APPLIED TO
 SPACE RADIATION PROTECTION
 09/23/1998 - 09/30/2001 FY01: \$0 Total: \$106,507
Prin. Invest.: J H HEINBOCKEL
Tech. Officer: LARC/R C SINGLETERRY, LARC/J W WILSON
CASE Category: 13 - PHYSICS

NCC 1 322 **OLD DOMINION UNIV** **9199**
 EXPERIMENTAL DEVELOPMENT AND PHYSICAL ANALYSIS OF JET AND
 VORTEX ACTUATORS
 11/17/1998 - 08/31/2000 FY01: -\$31 Total: \$58,464
Prin. Invest.: O A KANDIL, J T LACHOWICZ
Tech. Officer: LARC/C YAO
CASE Category: 41 - AERONAUTICAL ENGR

NCC 1 349 **OLD DOMINION UNIV** **9200**
 INST FOR SCIENTIFIC & EDUCATIONAL TECHNOLOGY (FOLLOW-ON TO
 NCC-1-232)
 06/28/1999 - 02/15/2002 FY01: \$321,761 Total: \$1,005,542
Prin. Invest.: S N TIWARI
Tech. Officer: LARC/S E MASSENBERG, LARC/E J PRIOR
CASE Category: 41 - AERONAUTICAL ENGR

NCC 1 363 **OLD DOMINION UNIV** **9201**
 AUTOMATED, NON-AUTOCLAVE, COMPOSITE MATERIALS FABRICATION
 (NRA 99-LARC-1)
 11/29/1999 - 11/30/2002 FY01: \$135,325 Total: \$285,325
Prin. Invest.: R B PIPES
Tech. Officer: LARC/T HOU
CASE Category: 47 - METAL & MATERIALS ENGR

NCC 1 364 **OLD DOMINION UNIV** **9202**
 PSYCHOPHYSIOLOGICAL CONTROL OF ACOGNITIVE TASK USING ADAP-
 TIVE AUTOMATION
 12/09/1999 - 11/30/2001 FY01: \$0 Total: \$31,530
Prin. Invest.: F G FREEMAN
Tech. Officer: LARC/A T POPE
CASE Category: 69 - PSYCHOLOGY, OTHER

NCC 1 369 **OLD DOMINION UNIV** **9203**
DOCUMENT AND DISSEMINATE THE RESULTS OF WIND TUNNEL TESTS OF
WRIGHT FLYER AIRCRAFT AND
01/31/2000 – 12/31/2001 FY01: \$75,000 Total: \$175,000
Prin. Invest.: R L ASH
Tech. Officer: LARC/A G PRICE
CASE Category: 41 – AERONAUTICAL ENGR

NCC 1 371 **OLD DOMINION UNIV** **9204**
TWO AND THREE DIMENSIONAL ELASTIC-PLASTIC FINITE ELEMENT ANAL-
YSES OF TAPERED/COLDWORKED FASTENERS
02/07/2000 – 12/31/2002 FY01: \$93,774 Total: \$168,070
Prin. Invest.: S A TIWARI, B R SESHADRI
Tech. Officer: LARC/J C NEWMAN, LARC/D R AMBUR
CASE Category: 49 – ENGINEERING, OTHER

NCC 1 389 **OLD DOMINION UNIV** **9205**
A COMPARISON OF QUASI-STATE INDENTATION & DROP-WT IMPACT
TESTING ON CARBON/EPOXY LAMINATES
03/14/2000 – 09/30/2001 FY01: \$0 Total: \$45,000
Prin. Invest.: R PRABHAKARAN
Tech. Officer: LARC/D R AMBUR
CASE Category: 41 – AERONAUTICAL ENGR

NCC 1 392 **OLD DOMINION UNIV** **9206**
STOCHASTIC DYNAMICAL MODELS FOR DIGITAL CONTROL SYSTEMS IN
ELECTROMAGNETIC ENVIRONMENTS (EME)
04/07/2000 – 03/31/2003 FY01: \$179,326 Total: \$304,326
Prin. Invest.: W S GRAY, O R GONZALEZ
Tech. Officer: LARC/C M BELCASTRO
CASE Category: 46 – MECHANICAL ENGR

NCC 1 396 **OLD DOMINION UNIV** **9207**
AN ALGORITHM FOR TRANSPORT OF ANISOTROPIC NEUTRONS
05/03/2000 – 09/30/2002 FY01: \$60,000 Total: \$79,321
Prin. Invest.: J TWEED
Tech. Officer: LARC/R C SINGLETERRY, LARC/J W WILSON
CASE Category: 13 – PHYSICS

NCC 1 403 **OLD DOMINION UNIV** **9208**
LASER MATERIALS PROCESSING FOR NASA AEROSPACE STRUCTURAL
MATERIALS
06/23/2000 – 12/30/2000 FY01: -\$1,569 Total: \$29,307
Prin. Invest.: K NAGARATHNAM
Tech. Officer: LARC/K M TAMINGER
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 1 404 **OLD DOMINION UNIV** **9209**
BOLTZMANN TRANSPORT CODE UPDATE: PARALLELIZATION AND INTE-
GRATED DESIGN METHODS
07/11/2000 – 07/16/2003 FY01: \$143,000 Total: \$188,000
Prin. Invest.: J H HEINBOCKEL, J NEALY
Tech. Officer: LARC/R C SINGLETERRY JR, LARC/J W WILSON
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NCC 1 01012 **OLD DOMINION UNIV** **9210**
EVALUATING THE ABILITY OF HEART RATE AND EEG TO CONTROL ALERT-
NESS DURING PERFORMANCE
12/29/2000 – 08/31/2002 FY01: \$70,895 Total: \$70,895
Prin. Invest.: F G FREEMAN, M W SCERBO, P J MIKULKA
Tech. Officer: LARC/L J PRINZEL
CASE Category: 69 – PSYCHOLOGY, OTHER

NCC 1 01014 **OLD DOMINION UNIV** **9211**
CENTER FOR ADVANCED ENGINEERING ENVIRONMENTS
01/24/2001 – 12/31/2003 FY01: \$550,000 Total: \$550,000
Prin. Invest.: A K NOOR
Tech. Officer: LARC/R D BRAUN, LARC/K A CANNON
CASE Category: 49 – ENGINEERING, OTHER

NCC 1 01015 **OLD DOMINION UNIV** **9212**
ADV'D APPLIC'S FOR ADIFOR 3.0 FOR EFFICIENT CALCU- LATION OF
1ST&2ND-ORDER CFD SENSITIVITYDERIVITIV
02/01/2001 – 12/31/2001 FY01: \$62,562 Total: \$62,562
Prin. Invest.: A C TAYLOR, III
Tech. Officer: LARC/P A NEWMAN
CASE Category: 41 – AERONAUTICAL ENGR

NCC 1 01032 **OLD DOMINION UNIV** **9213**
FIELD PENETRATION STUDIES STATISTICS AND BOUNDING
03/23/2001 – 12/31/2001 FY01: \$61,411 Total: \$61,411
Prin. Invest.: C F BUNTING, L L VAHALA
Tech. Officer: LARC/T X NGUYEN
CASE Category: 45 – ELECTRICAL ENGR

NCC 1 01040 **OLD DOMINION UNIV** **9214**
RESERCH ON INTELLIGENT SYNTHESIS ENVIRONMENT
03/27/2001 – 03/31/2002 FY01: \$500,000 Total: \$500,000
Prin. Invest.: A K NOOR, R B LOFFIN
Tech. Officer: LARC/J J REHDER
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NCC 1 01043 **OLD DOMINION UNIV** **9215**
NASA – ASEE SUMMER FACULTY RESEARCH PROGRAM 2001
04/06/2001 – 12/31/2001 FY01: \$593,708 Total: \$593,708
Prin. Invest.: B TIWARI, D DEPRIEST
Tech. Officer: LARC/R A HATHAWAY
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NCC 1 01052 **OLD DOMINION UNIV** **9216**
AUTOMATED TOW PLACEMENT PROCESSING & CHARACTERI- ZATION OF
COMPOSITES
06/22/2001 – 12/31/2003 FY01: \$29,940 Total: \$29,940
Prin. Invest.: R PRABHAKARAN, NONE
Tech. Officer: LARC/T H HOU
CASE Category: 13 – PHYSICS

NCC 5 258 **OLD DOMINION UNIV** **9217**
PHYSICAL-BIOLOGICAL INTERACTIONS IN THE GLOBAL EQU ATORIAL
SURFACE LAYER
11/17/1997 – 10/31/2001 FY01: \$0 Total: \$376,303
Prin. Invest.: E HOFMANN
Tech. Officer: GSFC/J MARRA
CASE Category: 11 – ASTRONOMY

NCC 5 592 **OLD DOMINION UNIV** **9218**
 NASA USRP UNDERGRADUATE STUDENT RESEARCH PROGRAM, VIRGINIA
 SPACEGRANT CONSORTIUM.
 09/19/2001 – 09/14/2004 FY01: \$999,626 Total: \$999,626
Prin. Invest.: M SANDY
Tech. Officer: GSFC/J GORMAN
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NCC 9 135 **OLD DOMINION UNIV** **9219**
 VIRTUAL REALITY TRAINING/CYBERSICKNESS & EFFECTS ON SENSOR-
 MOTOR FUNCTIONS
 07/20/2001 – 09/30/2002 FY01: \$23,206 Total: \$23,206
Prin. Invest.: R B LOFTIN
Tech. Officer: JSC/D L HARM
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 1 01001 **OLD DOMINION UNIV** **9220**
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
 11/02/2000 – 09/30/2001 FY01: \$22,000 Total: \$22,000
Prin. Invest.: M D LEE
Tech. Officer: LARC/J L BURT, LARC/D B SHAFER
CASE Category: 41 – AERONAUTICAL ENGR

NGT 1 01005 **OLD DOMINION UNIV** **9221**
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) MY 1/3
 05/22/2001 – 06/30/2004 FY01: \$12,000 Total: \$12,000
Prin. Invest.: M SCERBO
Tech. Officer: LARC/R HATHAWAY
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 1 01011 **OLD DOMINION UNIV** **9222**
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) MY 1/3
 06/04/2001 – 06/30/2004 FY01: \$12,000 Total: \$12,000
Prin. Invest.: D A JACOBS
Tech. Officer: LARC/S D YOUNG, LARC/D L BLACKSTOCK
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NGT 1 01013 **OLD DOMINION UNIV** **9223**
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) MY 1/3
 06/06/2001 – 06/30/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: L VAHALA
Tech. Officer: LARC/T X NGUYEN
CASE Category: 45 – ELECTRICAL ENGR

NGT 1 01014 **OLD DOMINION UNIV** **9224**
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) MY 1/3
 06/06/2001 – 06/30/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: D H ELSAYED-ALII
Tech. Officer: LARC/R DEYOUNG
CASE Category: 31 – ATMOSPHERIC SCIENCE

NGT 1 01015 **OLD DOMINION UNIV** **9225**
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) MY 1/2
 05/25/2001 – 06/30/2003 FY01: \$12,000 Total: \$12,000
Prin. Invest.: F G FREEMAN
Tech. Officer: LARC/L J PRENZEL, LARC/A T POPE
CASE Category: 69 – PSYCHOLOGY, OTHER

NGT 1 01019 **OLD DOMINION UNIV** **9226**
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) MY 1/2
 05/29/2001 – 06/30/2003 FY01: \$12,000 Total: \$12,000
Prin. Invest.: M W SCERBO
Tech. Officer: LARC/J R COMSTOCK, JR, LARC/A T POPE
CASE Category: 69 – PSYCHOLOGY, OTHER

NGT 1 01020 **OLD DOMINION UNIV** **9227**
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) MY 1/2
 05/30/2001 – 06/30/2003 FY01: \$12,000 Total: \$12,000
Prin. Invest.: M SCERBO
Tech. Officer: LARC/D B SHAFER, LARC/V CRISP
CASE Category: 41 – AERONAUTICAL ENGR

NGT 1 01021 **OLD DOMINION UNIV** **9228**
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) MY 1/2
 05/31/2001 – 06/30/2003 FY01: \$22,000 Total: \$22,000
Prin. Invest.: D D DOVES
Tech. Officer: LARC/P C SCHUTTE
CASE Category: 69 – PSYCHOLOGY, OTHER

NGT 1 01027 **OLD DOMINION UNIV** **9229**
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) MY 1/3
 06/12/2001 – 06/30/2004 FY01: \$12,000 Total: \$12,000
Prin. Invest.: J HUANG
Tech. Officer: LARC/P FERGEN
CASE Category: 46 – MECHANICAL ENGR

NGT 1 01029 **OLD DOMINION UNIV** **9230**
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) MY 1/2
 06/14/2001 – 06/30/2003 FY01: \$12,000 Total: \$12,000
Prin. Invest.: S ZOHORIOD
Tech. Officer: LARC/D B SHAFER
CASE Category: 41 – AERONAUTICAL ENGR

NGT 1 01030 **OLD DOMINION UNIV** **9231**
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) MY 1/2
 06/15/2001 – 09/30/2003 FY01: \$12,000 Total: \$12,000
Prin. Invest.: M SCERBO
Tech. Officer: LARC/J L BURT
CASE Category: 41 – AERONAUTICAL ENGR

NGT 1 52124 **OLD DOMINION UNIV** **9232**
 GRADUATE STUDENT RESEARCHER PROGRAM (GSRP)
 05/15/1996 – 06/30/2000 FY01: \$0 Total: \$88,000
Prin. Invest.: K L WISE, J B COOPER
Tech. Officer: LARC/B J JENSEN
CASE Category: 12 – CHEMISTRY

NGT 1 52171 **OLD DOMINION UNIV** **9233**
 GRADUATE STUDENT RESEARCHERS PROGRAM
 05/29/1997 – 12/31/2000 FY01: \$0 Total: \$77,000
Prin. Invest.: C P BRITCHER
Tech. Officer: LARC/N J GROOW
CASE Category: 41 – AERONAUTICAL ENGR

NGT 1 52193 **OLD DOMINION UNIV** **9234**
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
 05/20/1998 – 06/30/2000 FY01: -\$93 Total: \$43,907
Prin. Invest.: A FITZGIBBONS
Tech. Officer: LARC/P C SHUTTE
CASE Category: 62 – PSYCHOLOGY SOCIAL ASPECTS

NGT 1 52201	OLD DOMINION UNIV	9235	NGT 1 52231	OLD DOMINION UNIV	9244
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)			GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)		
08/31/1998 – 06/30/2000	FY01: -\$9,611	Total: \$34,389	04/21/2000 – 06/30/2001	FY01: \$12,000	Total: \$22,000
<i>Prin. Invest.:</i> C K AASEN			<i>Prin. Invest.:</i> F G FREEMAN		
<i>Tech. Officer:</i> LARC/A E MOTLEY, III, LARC/A G HAGEMANN			<i>Tech. Officer:</i> LARC/L J PRINZEL		
<i>CASE Category:</i> 49 – ENGINEERING, OTHER			<i>CASE Category:</i> 69 – PSYCHOLOGY, OTHER		
NGT 1 52208	OLD DOMINION UNIV	9236	NGT 1 52232	OLD DOMINION UNIV	9245
NASA-ASEE SUMMER FACULTY RESEARCH PROGRAM			GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)		
03/11/1999 – 12/31/2000	FY01: -\$4,429	Total: \$572,585	04/24/2000 – 06/30/2001	FY01: \$12,000	Total: \$22,000
<i>Prin. Invest.:</i> S N TUIVORE			<i>Prin. Invest.:</i> J M STARK		
<i>Tech. Officer:</i> LARC/R A HATHAWAY			<i>Tech. Officer:</i> LARC/J R COMSTOCK, JR, LARC/A T POPE		
<i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER			<i>CASE Category:</i> 59 – LIFE SCIENCE, OTHER		
NGT 1 52210	OLD DOMINION UNIV	9237	NGT 1 52235	OLD DOMINION UNIV	9246
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)			GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)		
05/26/1999 – 06/30/2002	FY01: \$22,000	Total: \$66,000	04/25/2000 – 06/30/2001	FY01: \$12,001	Total: \$22,001
<i>Prin. Invest.:</i> D T NGUYEN			<i>Prin. Invest.:</i> P HIX, S ZAHORIAN		
<i>Tech. Officer:</i> LARC/J SOBIESKI			<i>Tech. Officer:</i> LARC/D B SHAFER		
<i>CASE Category:</i> 41 – AERONAUTICAL ENGR			<i>CASE Category:</i> 41 – AERONAUTICAL ENGR		
NGT 1 52211	OLD DOMINION UNIV	9238	NGT 1 52236	OLD DOMINION UNIV	9247
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)			GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)		
05/26/1999 – 06/30/2001	FY01: -\$9,066	Total: \$34,934	04/27/2000 – 06/30/2001	FY01: \$12,000	Total: \$22,000
<i>Prin. Invest.:</i> H SAYID ELE			<i>Prin. Invest.:</i> M SCERBO		
<i>Tech. Officer:</i> LARC/R J DEYOUNG			<i>Tech. Officer:</i> LARC/D B SHAFER/V CRISP		
<i>CASE Category:</i> 45 – ELECTRICAL ENGR			<i>CASE Category:</i> 41 – AERONAUTICAL ENGR		
NGT 1 52219	OLD DOMINION UNIV	9239	NGT 1 52241	OLD DOMINION UNIV	9248
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)			GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)		
06/04/1999 – 06/30/2001	FY01: \$12,001	Total: \$44,001	06/08/2000 – 05/31/2001	FY01: \$0	Total: \$22,000
<i>Prin. Invest.:</i> F G FREEMAN			<i>Prin. Invest.:</i> D LOCKWOOD		
<i>Tech. Officer:</i> LARC/A T POPE, LARC/L J PRINZEL, 111			<i>Tech. Officer:</i> LARC/G W SACHSE		
<i>CASE Category:</i> 61 – PSYCHOLOGY BIOLOGY			<i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE		
NGT 1 52220	OLD DOMINION UNIV	9240	NGT 1 52245	OLD DOMINION UNIV	9249
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)			GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)		
06/04/1999 – 06/30/2001	FY01: \$12,000	Total: \$44,000	07/10/2000 – 06/30/2002	FY01: \$34,001	Total: \$44,001
<i>Prin. Invest.:</i> G D COATES			<i>Prin. Invest.:</i> R UNAL		
<i>Tech. Officer:</i> LARC/A T POPE, LARC/L J PRINZEL, 111			<i>Tech. Officer:</i> LARC/A A MOORE		
<i>CASE Category:</i> 61 – PSYCHOLOGY BIOLOGY			<i>CASE Category:</i> 42 – ASTRONAUTICAL ENGR		
NGT 1 52221	OLD DOMINION UNIV	9241	NGT 5 40059	OLD DOMINION UNIV	9250
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)			IN SUPPORT OF THE NATIONAL SPACE GRANT COLLEGE PROGRAM		
06/29/1999 – 12/31/2000	FY01: -\$4,274	Total: \$27,726	02/21/1997 – 01/31/2001	FY01: -\$219,809	Total: \$1,733,189
<i>Prin. Invest.:</i> A A FINK, D A MAJOR			<i>Prin. Invest.:</i> M L SANDY		
<i>Tech. Officer:</i> LARC/P C SCHUTTE			<i>Tech. Officer:</i> GSFC/L KEFFER		
<i>CASE Category:</i> 62 – PSYCHOLOGY SOCIAL ASPECTS			<i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER		
NGT 1 52229	OLD DOMINION UNIV	9242	NGT 5 40070	OLD DOMINION UNIV	9251
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)			GENERAL AVIATION DESIGN COMPETITION FUNDING IN SUP PORT OF THE		
04/21/2000 – 06/30/2001	FY01: \$0	Total: \$22,000	VIRGINIA NATIONAL SPACE GRANT COLLEGE		
<i>Prin. Invest.:</i> H ELSAVIDELE			01/03/2001 – 12/31/2001	FY01: \$874,114	Total: \$874,114
<i>Tech. Officer:</i> LARC/R J DEYOUNG			<i>Prin. Invest.:</i> M SANDY		
<i>CASE Category:</i> 46 – MECHANICAL ENGR			<i>Tech. Officer:</i> GSFC/D DETROYE		
			<i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER		
NGT 1 52230	OLD DOMINION UNIV	9243	NGT 5 40080	OLD DOMINION UNIV	9252
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)			VIRGINIA SPACE GRANT COLLEGE & FELLOWSHIP PROGRAM		
04/21/2000 – 06/30/2001	FY01: \$0	Total: \$22,000	02/09/2001 – 01/31/2002	FY01: \$694,809	Total: \$694,809
<i>Prin. Invest.:</i> M MIHALE CZ			<i>Prin. Invest.:</i> M SANDY		
<i>Tech. Officer:</i> LARC/P C SCHUTTE			<i>Tech. Officer:</i> GSFC/D D DETROYE		
<i>CASE Category:</i> 69 – PSYCHOLOGY, OTHER			<i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER		

NAG 5 5165 **ROANOKE COLLEGE** **9253**
 IMPROVED MODELING FOR THE COSMIC RAY ORIGIN FUNDING FOR FIRST
 YEAR OF GRANT
 03/09/1998 – 03/31/2002 FY01: \$0 Total: \$115,750
Prin. Invest.: C H TSAO
Tech. Officer: GSFC/B A MERRITT
CASE Category: 13 – PHYSICS

NAG 8 1208 **ROANOKE COLLEGE** **9254**
 JOVE
 09/25/1995 – 08/31/2000 FY01: \$0 Total: \$51,008
Prin. Invest.: A F BARGHOUTY
Tech. Officer: MSFC/D SIX
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 1 1964 **UNIV OF VIRGINIA** **9255**
 INTELLIGENT PROCESSING OF MATERIALS FOR DESIGN AND MANUFACTURING, ETC.
 09/30/1997 – 12/31/2000 FY01: \$0 Total: \$4,877,789
Prin. Invest.: H N WADLEY
Tech. Officer: LARC/C MOORE
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 2016 **UNIV OF VIRGINIA** **9256**
 EFFECT OF DISCONTINUITIES AND UNCERTAINTIES ON THE RESPONSE
 AND FAILURE OF COMPOSITE STRUCTURES
 02/27/1998 – 01/31/2001 FY01: -\$5,885 Total: \$283,396
Prin. Invest.: A K NOOR
Tech. Officer: LARC/J H STARNES
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 2031 **UNIV OF VIRGINIA** **9257**
 LOAD DIFFUSION IN COMPOSITE STRUCTURES
 03/25/1998 – 03/24/2000 FY01: -\$1 Total: \$39,333
Prin. Invest.: C O HORGAN
Tech. Officer: LARC/J H STARNES, LARC/M P NEMETH
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 2131 **UNIV OF VIRGINIA** **9258**
 DUAL-MODE COMBUSTION (FOLLOW-ON TO NAG-1-2085)
 01/26/1999 – 10/31/2001 FY01: \$144,412 Total: \$469,412
Prin. Invest.: J C MCDANIEL, E H MASLAN, H K CHELLIAH
Tech. Officer: LARC/D E REUBUSH, LARC/C R MCCLINTON
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 2176 **UNIV OF VIRGINIA** **9259**
 DAMAGE-TOLERANCE OF LIGHT AEROSPACE ALLOYS UNDER DEMANDING
 MECHANICAL & ELECTROCHEMICAL CONDITIONS
 03/31/1999 – 12/31/2000 FY01: \$0 Total: \$343,937
Prin. Invest.: R P GANGLOFF, E A STARKE
Tech. Officer: LARC/D L DICUS, LARC/N S DOMACK
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 1 2282 **UNIV OF VIRGINIA** **9260**
 METALLURGICAL FACTORS CONTROLLING LOCALIZED CORROSION AND
 STRESS CORROSION CRACK INITIATION
 03/22/2000 – 02/28/2001 FY01: \$1 Total: \$49,501
Prin. Invest.: D A LITTLE, J R SCULLY
Tech. Officer: LARC/M S DOMACK/D L DICUS
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 1 2290 **UNIV OF VIRGINIA** **9261**
 PRACTICAL USE OF FORMAL TECHNIQUES IN AEROSPACE IN SOFTWARE
 SYSTEMS
 05/01/2000 – 11/30/2002 FY01: \$217,616 Total: \$367,616
Prin. Invest.: J C KNIGHT, D E EVANS
Tech. Officer: LARC/K J HAYHURST
CASE Category: 22 – COMPUTER SCIENCE

NAG 1 2321 **UNIV OF VIRGINIA** **9262**
 DEVELOPMENT OF SENSORY ALLOYS FOR ACOUSTIC STRAIN MONITORS
 08/14/2000 – 08/31/2001 FY01: \$89,977 Total: \$129,977
Prin. Invest.: G SHIFLET
Tech. Officer: LARC/R PIASCIK
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 1 01022 **UNIV OF VIRGINIA** **9263**
 END EFFECTS AND LOAD DIFFUSION IN COMPOSITE STRUCTURES
 03/21/2001 – 12/31/2001 FY01: \$50,000 Total: \$50,000
Prin. Invest.: C O HORGAN
Tech. Officer: LARC/M P NEMETH
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 1 01051 **UNIV OF VIRGINIA** **9264**
 EXPERIMENTAL CHARACTERIZATION OF CONTINUUM/ RAREFIELD FLOWS
 05/18/2001 – 02/29/2004 FY01: \$49,972 Total: \$49,972
Prin. Invest.: J C MCDANIEL, JR, D E CECIL
Tech. Officer: LARC/C E GLASS
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 01120 **UNIV OF VIRGINIA** **9265**
 UNSTEADY AERODYNAMICS OF FLAPPING WINGS
 08/16/2001 – 08/31/2004 FY01: \$50,000 Total: \$50,000
Prin. Invest.: N NAJ-HARERI
Tech. Officer: LARC/D D MOERDER
CASE Category: 41 – AERONAUTICAL ENGR

NAG 3 1916 **UNIV OF VIRGINIA** **9266**
 INSTABILITY MECHANISMS OF THERMALLY-DRIVEN INTERFACIAL FLOWS
 IN LIGHT-ENCAPSULATED CRYSTALGROWTH
 07/16/1996 – 07/16/2001 FY01: \$0 Total: \$336,000
Prin. Invest.: H HAJ-HARIRI
Tech. Officer: GRC/T GLASGOW
CASE Category: 46 – MECHANICAL ENGR

NAG 3 1928 **UNIV OF VIRGINIA** **9267**
 HETEROGENEOUS COMB OF POROUS SOLID FUEL PART UNDER MICRO-
 GRAV: A COMPREHENSIVE THERM & EXP STUDIES
 07/23/1996 – 07/24/2001 FY01: \$0 Total: \$215,705
Prin. Invest.: H CHELLIAH, F MILLER
Tech. Officer: GRC/H ROSS
CASE Category: 46 – MECHANICAL ENGR

NAG 3 2359 **UNIV OF VIRGINIA** **9268**
 RLV THRUST CELL LINER COATING ANALYSIS AND OPTIMIZATION
 03/16/2000 – 09/30/2001 FY01: \$23,000 Total: \$81,500
Prin. Invest.: M J PINDERA
Tech. Officer: GRC/S M ARNOLD
CASE Category: 49 – ENGINEERING, OTHER

NAG 3 2411	UNIV OF VIRGINIA	9269	NAG 5 4779	UNIV OF VIRGINIA	9277
IMPACT OF INTERNALLY-COOLED FUNCTIONALLY GRADED CY LINDERS			AQUARIUS		
05/09/2000 - 04/04/2001	FY01: \$0	Total: \$30,000	06/18/1997 - 12/31/2000	FY01: -\$881	Total: \$594,192
<i>Prin. Invest.:</i> M J PINDERA			<i>Prin. Invest.:</i> M GARSTANG		
<i>Tech. Officer:</i> GRC/S M ARNOLD			<i>Tech. Officer:</i> GSFC/R J LAWRENCE		
<i>CASE Category:</i> 49 - ENGINEERING, OTHER			<i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE		
NAG 3 2524	UNIV OF VIRGINIA	9270	NAG 5 6043	UNIV OF VIRGINIA	9278
HOMOGENIZED AND SMART HOTFGM			EFFECTS OF THE DEVELOPMENT OF THE BAIKAL-AMUR MAIN PATTERNS OF BOREAL FOREST COVER AND CARBON FLUXES		
01/19/2001 - 11/30/2001	FY01: \$160,057	Total: \$160,057	07/23/1997 - 07/31/2000	FY01: \$0	Total: \$159,113
<i>Prin. Invest.:</i> M PINDERA			<i>Prin. Invest.:</i> H SHUGART		
<i>Tech. Officer:</i> GRC/S M ARNOLD			<i>Tech. Officer:</i> GSFC/A JANETOS		
<i>CASE Category:</i> 44 - CIVIL ENGR			<i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER		
NAG 5 3633	UNIV OF VIRGINIA	9271	NAG 5 6351	UNIV OF VIRGINIA	9279
CHARGED PARTICLE INDUCED ALTERATIONS OF SURFACES I			VEMAP PHASE II.		
03/13/1997 - 01/31/2002	FY01: \$0	Total: \$145,005	09/12/1997 - 05/31/2001	FY01: \$0	Total: \$292,215
<i>Prin. Invest.:</i> R E JOHNSON			<i>Prin. Invest.:</i> T SMITH		
<i>Tech. Officer:</i> GSFC/P G ROGERS			<i>Tech. Officer:</i> GSFC/A JANETOS		
<i>CASE Category:</i> 32 - GEOLOGICAL SCIENCE			<i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER		
NAG 5 3931	UNIV OF VIRGINIA	9272	NAG 5 6384	UNIV OF VIRGINIA	9280
EROSIONAL PROCESSES ON MARS			THE COUPLING LAND-USE AND LAND-COVER CHANGES, AND MIOMBO WOODLANDS		
03/12/1997 - 02/28/2002	FY01: \$60,000	Total: \$293,763	09/26/1997 - 10/31/2001	FY01: \$0	Total: \$570,165
<i>Prin. Invest.:</i> A D HOWARD			<i>Prin. Invest.:</i> P DESANKER		
<i>Tech. Officer:</i> GSFC/J G GRANT			<i>Tech. Officer:</i> GSFC/A C JANETOS		
<i>CASE Category:</i> 32 - GEOLOGICAL SCIENCE			<i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER		
NAG 5 3973	UNIV OF VIRGINIA	9273	NAG 5 6403	UNIV OF VIRGINIA	9281
ADVANCED COMPUTATIONAL METHODS FOR THE NUMERICAL S METEOROLOGICAL FLOW PROBLEMS			CRITICAL TESTS OF STELLAR EVOLUTION (L TSA)		
03/03/1997 - 01/31/2001	FY01: \$0	Total: \$326,830	10/10/1997 - 10/14/2002	FY01: \$86,400	Total: \$400,799
<i>Prin. Invest.:</i> J J DORNING			<i>Prin. Invest.:</i> R O'CONNELL		
<i>Tech. Officer:</i> GSFC/K H BERGMAN			<i>Tech. Officer:</i> GSFC/R K OLIVERSEN		
<i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE			<i>CASE Category:</i> 11 - ASTRONOMY		
NAG 5 4192	UNIV OF VIRGINIA	9274	NAG 5 6507	UNIV OF VIRGINIA	9282
ION COLLISION PROCESSES: PLASMA INTERACTIONS WITH AN NEUTRAL CORONA			THE DEVELOPMENT OF SUBMILLIMETER WAVELENGTH RECEIVERS FOR MICROWAVEREMOTE SENSING		
04/10/1997 - 03/31/2002	FY01: \$83,600	Total: \$408,848	11/04/1997 - 05/31/2000	FY01: \$0	Total: \$356,217
<i>Prin. Invest.:</i> D E JOHNSON			<i>Prin. Invest.:</i> J HESLER		
<i>Tech. Officer:</i> GSFC/J BERGSTRALH			<i>Tech. Officer:</i> GSFC/L HILLIARD		
<i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE			<i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE		
NAG 5 4283	UNIV OF VIRGINIA	9275	NAG 5 6828	UNIV OF VIRGINIA	9283
EROSION AND ALTERATION OF INTERSTELLAR AND INTERPL			GAS EVOLUTION FROM ICY SURFACES		
04/07/1997 - 05/31/2002	FY01: \$35,000	Total: \$177,700	01/15/1998 - 07/31/2001	FY01: \$0	Total: \$130,643
<i>Prin. Invest.:</i> D E JOHNSON			<i>Prin. Invest.:</i> R BARAGIOLA		
<i>Tech. Officer:</i> GSFC/D BOYCE			<i>Tech. Officer:</i> GSFC/R BEEBE		
<i>CASE Category:</i> 11 - ASTRONOMY			<i>CASE Category:</i> 11 - ASTRONOMY		
NAG 5 4332	UNIV OF VIRGINIA	9276	NAG 5 7033	UNIV OF VIRGINIA	9284
SUBLIMATION AND OPTICAL PROPERTIES OF ICES AT LOW TO SOLAR SYSTEM OBJECTS			EVALUATION OF INCREMENTAL RELEASES OF ECS USER INTERFACES AND THE DEVELOPMENT OF HDF/HDF-EOS		
04/30/1997 - 08/31/2001	FY01: \$0	Total: \$193,971	02/19/1998 - 09/30/2000	FY01: -\$571	Total: \$113,280
<i>Prin. Invest.:</i> D A BARAGIOLA			<i>Prin. Invest.:</i> G D EMMITT		
<i>Tech. Officer:</i> GSFC/P ROGERS			<i>Tech. Officer:</i> GSFC/H K RAMPRIYAN		
<i>CASE Category:</i> 32 - GEOLOGICAL SCIENCE			<i>CASE Category:</i> 39 - ENVIRONMENTAL SCI, OTHER		

NAG 5 7104 **UNIV OF VIRGINIA** **9285**
 ULTRAVIOLET SPECTRAL DIAGNOSTICS FOR OLD STELLAR POPULATIONS
 03/13/1998 – 03/31/2001 FY01: \$0 Total: \$41,875
Prin. Invest.: R T ROOD
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 7266 **UNIV OF VIRGINIA** **9286**
 SOUTHERN AFRICAN VALIDATION OF EOS GROUND AND AIRB ORNE
 INSTRUMENTATION AND VALIDATION ACTIVITIES
 04/30/1998 – 08/30/2001 FY01: \$0 Total: \$499,858
Prin. Invest.: R J SWAPP
Tech. Officer: GSFC/J PRIVETTE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 7417 **UNIV OF VIRGINIA** **9287**
 CENTRAL AFRICAN REGIONAL PROJECT FOR THE ENVIRONME NT:
 REMOTE SENSING AND GIS SUPPORT ACTIVITIES
 05/22/1998 – 01/31/2000 FY01: -\$789 Total: \$178,211
Prin. Invest.: C JUSTICE
Tech. Officer: GSFC/C TUCKER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 7500 **UNIV OF VIRGINIA** **9288**
 MAGNETOHYDRODYNAMICS OF THE SOLAR NEBULA
 06/01/1998 – 05/31/2002 FY01: \$0 Total: \$164,000
Prin. Invest.: S BALBUS
Tech. Officer: HQ/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 7749 **UNIV OF VIRGINIA** **9289**
 SPUTTERING OF THE MARTIAN ATMOSPHERE
 11/04/1998 – 12/31/2001 FY01: \$59,370 Total: \$173,751
Prin. Invest.: R E JOHNSON
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 – ASTRONOMY

NAG 5 7862 **UNIV OF VIRGINIA** **9290**
 SAFARI 2000: A SOUTHERN AFRICAN REGIONAL SCIENCE I NITIATIVE
 01/08/1999 – 01/31/2002 FY01: \$95,347 Total: \$252,864
Prin. Invest.: C O JUSTICE
Tech. Officer: GSFC/D WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 7939 **UNIV OF VIRGINIA** **9291**
 "COLLABORATIVE PARTICIPATION OF SOUTH AFRICAN AIRB ORNE VALIDA-
 TIONPLATFORM IN SAFARI2000"
 01/04/1999 – 09/14/2001 FY01: \$0 Total: \$300,704
Prin. Invest.: R J SWAP
Tech. Officer: GSFC/M KING
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 7956 **UNIV OF VIRGINIA** **9292**
 LAND SURFACE CHARACTERIZATION OF SOUTHERN AFRICAN SAVANNAS:
 CARBONCYCLING AND SENSITIVITY TO E
 01/07/1999 – 01/31/2002 FY01: \$170,833 Total: \$605,642
Prin. Invest.: H H SHUGART
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 8088 **UNIV OF VIRGINIA** **9293**
 SUPERNOVA-INFLUENCED STAR FORMATION
 01/27/1999 – 12/31/2001 FY01: \$45,000 Total: \$130,000
Prin. Invest.: D A CHEVALIER
Tech. Officer: HQ/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 8130 **UNIV OF VIRGINIA** **9294**
 MODELS OF PULSAR NEBULAE (ATP 98)
 02/11/1999 – 02/14/2002 FY01: \$63,700 Total: \$185,500
Prin. Invest.: R A CHEVALIER
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 8162 **UNIV OF VIRGINIA** **9295**
 LAND COVER AND LAND USE CHANGE PROJECT SCIENTIST S UPPORT
 02/08/1999 – 08/31/2001 FY01: \$0 Total: \$537,535
Prin. Invest.: C O JUSTICE
Tech. Officer: GSFC/A C JANETOS
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 8232 **UNIV OF VIRGINIA** **9296**
 SUPERNOVA REMNANTS: INTERSTELLAR AND CIRCUMSTELLAR INTER-
 ACTIONS (ATP98)
 02/11/1999 – 02/14/2002 FY01: \$60,000 Total: \$180,000
Prin. Invest.: R A CHEVALIER
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 – ASTRONOMY

NAG 5 8444 **UNIV OF VIRGINIA** **9297**
 LABORATORY SIMULATIONS OF RADIATION EFFECTS ON PLA NETARY
 SURFACES
 04/07/1999 – 05/31/2002 FY01: \$109,000 Total: \$164,000
Prin. Invest.: R A BARAGIOLA, NONE
Tech. Officer: HQ/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 8585 **UNIV OF VIRGINIA** **9298**
 EXTENDING THE VOCABULARY FOR CROSS-DISCIPLINARY SEARCHING
 OF EOS DATA
 06/24/1999 – 06/30/2001 FY01: \$0 Total: \$153,917
Prin. Invest.: J C FRENCH
Tech. Officer: GSFC/K MOE
CASE Category: 22 – COMPUTER SCIENCE

NAG 5 8612 **UNIV OF VIRGINIA** **9299**
 TOWARD REAL-TIME ANALYSIS OF TERRESTRIAL CARBON CYCLING
 06/11/1999 – 01/31/2000 FY01: -\$460 Total: \$65,540
Prin. Invest.: W R EMANUEL
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 8663 **UNIV OF VIRGINIA** **9300**
 LOW COST TERAHERTZ FREQUENCY MULTIPLIERS FOR SOFIA AND
 EXPLORER MISSIONS
 07/07/1999 – 01/14/2002 FY01: \$0 Total: \$267,552
Prin. Invest.: T CROWE
Tech. Officer: GSFC/G MUCKLOW
CASE Category: 45 – ELECTRICAL ENGR

NAG 5 8670 **UNIV OF VIRGINIA** **9301**
 ESTIMATING ROOT ZONE SOIL MOISTURE AND EXPLORING SCALE
 ASPECTS OF ITS COUPLING TO THE ATMOSPHERIC
 07/08/1999 - 07/14/2002 FY01: \$119,291 Total: \$346,695
Prin. Invest.: J D ALBERTSON
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8749 **UNIV OF VIRGINIA** **9302**
 TO DEVELOPE A COMPACT, AMBIENT TEMPERATURE 500 GHZ RECEIVER
 FOR USE IN PASSIVE MICROWAVE REMOTE SEN
 08/25/1999 - 09/30/2001 FY01: \$0 Total: \$97,000
Prin. Invest.: J L HESLER
Tech. Officer: GSFC/J R WANG
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 8838 **UNIV OF VIRGINIA** **9303**
 CENTRAL AFRICAN REGIONAL PROJECT FOR THE ENVIRON MENT:
 REMOTE SENSING AND GIS SUPPORT ACTIVITIES
 09/23/1999 - 09/30/2000 FY01: \$0 Total: \$158,271
Prin. Invest.: C O JUSTICE
Tech. Officer: GSFC/C J TUCKER
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8902 **UNIV OF VIRGINIA** **9304**
 MARTIAN CRATERED HIGHLANDS FIELD CONFERENCE
 12/28/1999 - 12/31/2001 FY01: \$0 Total: \$22,000
Prin. Invest.: A HOWARD
Tech. Officer: GSFC/J GRANT
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8954 **UNIV OF VIRGINIA** **9305**
 FAR-ULTRAVIOLET STUDIES OF METAL-DEFICIENT BLUE COMPACT
 DWARF GALAXIES - FUSE
 01/24/2000 - 01/31/2002 FY01: \$0 Total: \$54,300
Prin. Invest.: T X THUAN
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 9266 **UNIV OF VIRGINIA** **9306**
 NUMERICAL MAGNETOHYDRODYNAMIC STUDIES OF ACCRETION DISKS
 (ATP 99)
 03/13/2000 - 03/14/2002 FY01: \$94,530 Total: \$184,364
Prin. Invest.: J HAWLEY
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9289 **UNIV OF VIRGINIA** **9307**
 OPERATIONALIZING GOF C IN THE MIOMBO REGION & QUES TIONS OF
 CARBON MIOMBO REGION A SOURCE ORSINK
 03/27/2000 - 04/30/2002 FY01: \$129,986 Total: \$216,693
Prin. Invest.: P V DESANKER
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9357 **UNIV OF VIRGINIA** **9308**
 REGIONAL ANALYSIS OF LAND-ATMOSPHERE FEEDBACKS IN SOUTHERN
 AFRICAN SAVANNAS: A SYNTHESIS ACTIVITIES
 04/05/2000 - 04/30/2002 FY01: \$281,176 Total: \$463,121
Prin. Invest.: H H SHUGART
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9654 **UNIV OF VIRGINIA** **9309**
 PRODUCTION OF DIABATIC HEATING IN THE TROPICAL TROPOSPHERE
 06/05/2000 - 05/31/2002 FY01: \$111,000 Total: \$183,333
Prin. Invest.: J D FUENTES
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9747 **UNIV OF VIRGINIA** **9310**
 INTEGRATING A MANUAL THESAURUS WITH AUTOMATED TERM SUGGES-
 TION TECHNIQUES FOR CROSS-DISCIPLINARY
 07/11/2000 - 01/14/2002 FY01: \$0 Total: \$82,338
Prin. Invest.: J FRENCH
Tech. Officer: GSFC/K MOE
CASE Category: 22 - COMPUTER SCIENCE

NAG 5 9758 **UNIV OF VIRGINIA** **9311**
 MOLECULAR ISTOPIC COMPOSITION OF ORGANIC COMPOUNDS IN
 ANTARCTIC METEORITES
 06/28/2000 - 06/30/2001 FY01: \$0 Total: \$51,810
Prin. Invest.: S MACKO
Tech. Officer: GSFC/M MEYER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9900 **UNIV OF VIRGINIA** **9312**
 ARE THE SCUBA DEEP SURVEY SOURCES STARBURSTS OR AGN?
 09/06/2000 - 09/14/2001 FY01: \$0 Total: \$12,300
Prin. Invest.: T X THUAN
Tech. Officer: GSFC/R F MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10074 **UNIV OF VIRGINIA** **9313**
 STELLAR MASS LOSS VERSUS EXTERNAL ACCRETION IN X-RAY BRIGHT
 ELLIPTICALS
 10/27/2000 - 10/31/2002 FY01: \$40,000 Total: \$40,000
Prin. Invest.: C L SARAZIN
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10075 **UNIV OF VIRGINIA** **9314**
 MERGER SHOCKS IN CLUSTERS OF GALAXIES
 10/27/2000 - 10/31/2002 FY01: \$38,700 Total: \$38,700
Prin. Invest.: C L SARAZIN
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10173 **UNIV OF VIRGINIA** **9315**
 CHARGED PARTICLE ALTERATIONS OF THE SURFACES IN THE OUTER
 SOLAR SYSTEM
 12/21/2000 - 01/31/2002 FY01: \$39,000 Total: \$39,000
Prin. Invest.: R E JOHNSON, NONE
Tech. Officer: GSFC/D SENSKE
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 10250 **UNIV OF VIRGINIA** **9316**
OBSERVATIONS OF O VI EMISSION IN THE HOT HALO OF NGC 891 (FUSE
00)
02/15/2001 – 02/14/2002 FY01: \$69,997 Total: \$69,997
Prin. Invest.: E M MURPHY
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 – ASTRONOMY

NAG 5 10341 **UNIV OF VIRGINIA** **9317**
THE INTERSTELLAR MEDIUM OF BLUE COMPACT DWARF GALAXIES (FUSE
00)
02/05/2001 – 02/14/2002 FY01: \$77,800 Total: \$77,800
Prin. Invest.: T X THUAN
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 – ASTRONOMY

NAG 5 10436 **UNIV OF VIRGINIA** **9318**
STRUCTURE & REFLECTANCE OF SURFACES OF ICY BODIES: LABORA-
TORY SIMULATIONS
02/20/2001 – 02/28/2002 FY01: \$50,500 Total: \$50,500
Prin. Invest.: R A BARAGIOLA
Tech. Officer: GSFC/D SENSKE
CASE Category: 11 – ASTRONOMY

NAG 5 10606 **UNIV OF VIRGINIA** **9319**
ANALYSIS OF IN-SITU OBSERVATIONS OF AEROSOLS OVER SOUTHERN
AFRICA
03/15/2001 – 03/14/2002 FY01: \$71,973 Total: \$71,973
Prin. Invest.: R SWAP
Tech. Officer: GSFC/M WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 10655 **UNIV OF VIRGINIA** **9320**
MAGNETOHYDRODYNAMICS IN PROTOSTELLAR DISKS
03/20/2001 – 05/31/2002 FY01: \$30,000 Total: \$30,000
Prin. Invest.: S BALBUS
Tech. Officer: GSFC/J M BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 10956 **UNIV OF VIRGINIA** **9321**
ADVANCED IMAGE PROCESSING FOR IMAGE2000 ENHANCE- MENTS
05/30/2001 – 05/31/2002 FY01: \$50,000 Total: \$50,000
Prin. Invest.: G WILLIAMS
Tech. Officer: WFF/B MERRITT
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NAG 5 10985 **UNIV OF VIRGINIA** **9322**
SOUTHERN AFRICAN VALIDATION OF EOS GROUND AND AIR- BORNE
INSTRUMENTATION AND VALIDATION ACTIVITIES
05/31/2001 – 05/31/2002 FY01: \$58,997 Total: \$58,997
Prin. Invest.: R J SWAPP
Tech. Officer: GSFC/J PRIVETTE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 11341 **UNIV OF VIRGINIA** **9323**
CARPE GIS MAPPING ACTIVITY
09/24/2001 – 09/30/2002 FY01: \$9,004 Total: \$9,004
Prin. Invest.: C O JUSTICE
Tech. Officer: GSFC/C J TUCKER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 8 1567 **UNIV OF VIRGINIA** **9324**
MEMBRANE PROTEIN CRYSTALLIZATION SCREENS BASED UPON FUNDA-
MENTAL PHENOMENOLOGY OF SOLUTIONS
12/22/1998 – 11/30/2002 FY01: \$101,550 Total: \$459,550
Prin. Invest.: M C WIENER
Tech. Officer: MSFC/B GUYNES
CASE Category: 13 – PHYSICS

NAG 8 1832 **UNIV OF VIRGINIA** **9325**
A DIRECTED APPROACH TO MEMBRANE PROTEIN CRYSTALLO- GRAPHY
09/05/2001 – 11/30/2004 FY01: \$91,000 Total: \$91,000
Prin. Invest.: M C WIENER
Tech. Officer: MSFC/B Q GUYNES
CASE Category: 59 – LIFE SCIENCE, OTHER

NAS 1 99098 **UNIV OF VIRGINIA** **9326**
ANALYTICAL AERONAUTICAL SAFETY SOFTWARE TOOL
03/26/1999 – 11/25/2001 FY01: \$228,087 Total: \$700,087
Prin. Invest.: J BECHTA-DUGAN, K J SULLIZAN
Tech. Officer: LARC/H A ROELANT, LARC/D J PORTER, JR.
CASE Category: 49 – ENGINEERING, OTHER

NAS 3 97190 **UNIV OF VIRGINIA** **9327**
HOTFGM CYLINDER A COUPLED MICRO MACROSTRUCTURAL TH EORY
10/29/1997 – 03/01/2000 FY01: \$0 Total: \$157,629
Prin. Invest.: M PINDERG, J ABOUDI
Tech. Officer: GRC/S ARNOLD
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 1 237 **UNIV OF VIRGINIA** **9328**
NASA-VIRGINIA CONSORTIUM OF ENGINEERING & SCIENCE UNIVERSITIES
PH.D RESEARCH ASSISTANTSHIP PROGRAM
07/16/1996 – 08/31/2000 FY01: -\$7,828 Total: \$469,099
Prin. Invest.: D CHESTNUTT
Tech. Officer: LARC/S E MASSENBERG, LARC/E J PRIOR
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 1 263 **UNIV OF VIRGINIA** **9329**
CENTER FOR ADVANCED COMPUTATIONAL TECHNOLOGY MY 1/3
08/20/1997 – 12/31/2000 FY01: -\$71,498 Total: \$1,653,503
Prin. Invest.: A K NOORE
Tech. Officer: LARC/K A CANNON
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 1 342 **UNIV OF VIRGINIA** **9330**
ROBUST ADAPTIVE CONTROL IN THE PRESENCE OF UNCERTAINTIES AND
FAILURES
06/08/1999 – 05/31/2002 FY01: \$52,000 Total: \$129,001
Prin. Invest.: G TAO
Tech. Officer: LARC/S M JOSHI, LARC/C M BELCASTRO
CASE Category: 41 – AERONAUTICAL ENGNR

NCC 1 361 **UNIV OF VIRGINIA** **9331**
NONLINEAR IMPEDANCE OF POROUS MATERIALS
11/12/1999 – 11/14/2002 FY01: \$54,473 Total: \$106,473
Prin. Invest.: W E ZORUMSKI
Tech. Officer: LARC/T L PARROTT, LARC/M G JONES
CASE Category: 13 – PHYSICS

NCC 1 01009	UNIV OF VIRGINIA	9332	NGT 1 52212	UNIV OF VIRGINIA	9340
DEVELOPMENT & EVALUATION OF LAP JOINT SIMULANT ENVIRONMENTS FOR ACCELERATED TESTING			GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)		
12/14/2000 - 12/31/2002	FY01: \$60,000	Total: \$60,000	05/28/1999 - 06/30/2000	FY01: -\$589	Total: \$21,411
<i>Prin. Invest.:</i> R G KELLY			<i>Prin. Invest.:</i> D A STACK, J C MCDANREL		
<i>Tech. Officer:</i> LARC/R S PIASCIK			<i>Tech. Officer:</i> LARC/C E GLASS, LARC/C G MILLER		
<i>CASE Category:</i> 47 - METAL & MATERIALS ENGR			<i>CASE Category:</i> 13 - PHYSICS		
NCC 2 1093	UNIV OF VIRGINIA	9333	NGT 1 52234	UNIV OF VIRGINIA	9341
WHEN ARE THE IMMERSIVE DISPLAYS USEFUL: PERCEPTUAL & TASK CONSIDERATIONS?			GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)		
03/09/1999 - 02/28/2002	FY01: \$145,117	Total: \$441,768	05/26/2000 - 12/31/2000	FY01: -\$3	Total: \$11,914
<i>Prin. Invest.:</i> D R PROFFITT			<i>Prin. Invest.:</i> H G WOOD		
<i>Tech. Officer:</i> ARC/M K KAISER			<i>Tech. Officer:</i> LARC/R H THOMAS		
<i>CASE Category:</i> 69 - PSYCHOLOGY, OTHER			<i>CASE Category:</i> 41 - AERONAUTICAL ENGR		
NCC 2 1192	UNIV OF VIRGINIA	9334	NGT 1 52237	UNIV OF VIRGINIA	9342
THE TOPOGRAPHY & BASIN DEPOSITS OF THE EQUATORIAL HIGHLANDS			GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)		
08/28/2000 - 08/31/2001	FY01: \$11,000	Total: \$22,000	04/27/2000 - 06/30/2001	FY01: \$12,000	Total: \$22,000
<i>Prin. Invest.:</i> A D HOWARD			<i>Prin. Invest.:</i> C R ELKS		
<i>Tech. Officer:</i> ARC/J M MOORE			<i>Tech. Officer:</i> LARC/P W GOODE, LARC/A T MORRIS		
<i>CASE Category:</i> 19 - PHYSICAL SCIENCE, OTHER			<i>CASE Category:</i> 29 - MATH/COMPUTER SCI, OTHER		
NCC 2 5415	UNIV OF VIRGINIA	9335	NGT 1 52244	UNIV OF VIRGINIA	9343
THEORETICAL CALCULATIONS OF POLYNUCLEAR TRANSITION METAL CARBONYLS			GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)		
01/19/2001 - 01/31/2002	FY01: \$60,000	Total: \$60,000	08/07/2000 - 06/30/2001	FY01: \$12,000	Total: \$22,000
<i>Prin. Invest.:</i> L S ANDREWS			<i>Prin. Invest.:</i> R W KENT		
<i>Tech. Officer:</i> ARC/H PARTRIDGE			<i>Tech. Officer:</i> LARC/L E JONES		
<i>CASE Category:</i> 12 - CHEMISTRY			<i>CASE Category:</i> 49 - ENGINEERING, OTHER		
NCC 8 171	UNIV OF VIRGINIA	9336	NGT 1 52247	UNIV OF VIRGINIA	9344
MODELING PROSTATE CANCER SKELETAL METASTASIS AND GENE THERAPY			GRADUATE STUDENT RESEARCHERS PROGRAM		
03/01/1999 - 11/30/2002	FY01: \$169,100	Total: \$463,100	08/01/2000 - 06/30/2001	FY01: \$12,000	Total: \$22,000
<i>Prin. Invest.:</i> L W CHUNG			<i>Prin. Invest.:</i> J C MCDANIEL JR, D E CECIL		
<i>Tech. Officer:</i> MSFC/D R MORRISON			<i>Tech. Officer:</i> GSFC/C E GLASS		
<i>CASE Category:</i> 51 - BIOLOGY (EXCLUDING ENVIR)			<i>CASE Category:</i> 41 - AERONAUTICAL ENGR		
NGT 1 01016	UNIV OF VIRGINIA	9337	NGT 5 30365	UNIV OF VIRGINIA	9345
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) MY 1/2			NEE MODIFICATION BY AEROSOL RADIATIVE FORCING/JORDAN G. BARR		
06/22/2001 - 06/30/2003	FY01: \$12,000	Total: \$12,000	08/13/2001 - 08/31/2004	FY01: \$22,000	Total: \$22,000
<i>Prin. Invest.:</i> B W JOHNSON			<i>Prin. Invest.:</i> J FUENTES		
<i>Tech. Officer:</i> LARC/P M GOODE, LARC/A T MORRIS			<i>Tech. Officer:</i> GSFC/M WEI		
<i>CASE Category:</i> 29 - MATH/COMPUTER SCI, OTHER			<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER		
NGT 1 01031	UNIV OF VIRGINIA	9338	NGT 5 30418	UNIV OF VIRGINIA	9346
GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) MY 1/2			STRUCTURAL DYNAMICS OF SOUTHERN AFRICAN SAVANNAS A LONG THE KALAHARITRANSECT--STUDENT:KELLY C		
06/22/2001 - 06/30/2003	FY01: \$12,000	Total: \$12,000	09/10/2001 - 08/31/2004	FY01: \$22,000	Total: \$22,000
<i>Prin. Invest.:</i> J C MCDANIEL, JR			<i>Prin. Invest.:</i> H SHUGART		
<i>Tech. Officer:</i> LARC/C E GLASS			<i>Tech. Officer:</i> GSFC/M WEI		
<i>CASE Category:</i> 41 - AERONAUTICAL ENGR			<i>CASE Category:</i> 99 - MULTI INTERDISCIPL, OTHER		
NGT 1 52187	UNIV OF VIRGINIA	9339	NGT 5 50062	UNIV OF VIRGINIA	9347
GRADUATE STUDENT RESEARCHERS PROGRAM			APPROACHES FOR IMPROVING ACCESS TO NASA'S SCIENTIF		
06/04/1998 - 09/30/2000	FY01: \$0	Total: \$44,000	08/04/1997 - 06/30/2000	FY01: -\$73	Total: \$65,927
<i>Prin. Invest.:</i> C T HEROKOVICH			<i>Prin. Invest.:</i> J FRENCH		
<i>Tech. Officer:</i> LARC/J H STORRIES			<i>Tech. Officer:</i> HQ/A NURRIDIN		
<i>CASE Category:</i> 31 - ATMOSPHERIC SCIENCE			<i>CASE Category:</i> 41 - AERONAUTICAL ENGR		

NGT 5 50305 **UNIV OF VIRGINIA** **9348**
 USING NOVEL MEMBRANE PROTEIN CRYSTALLIZATION SCREE NS FOR
 THE STRUCTURE DETERMINATION OF ACHLORIDE
 07/07/2000 – 06/30/2002 FY01: \$21,140 Total: \$42,252
Prin. Invest.: M C WIENER
Tech. Officer: GSFC/L SMITH
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT10 52620 **UNIV OF VIRGINIA** **9349**
 TRAINING GRANT UNDER A GRADUATE STUDENT RESEARCHER'S
 PROGRAM
 06/22/1999 – 07/30/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: A MILLS
Tech. Officer: KSC/R WHEELER
CASE Category: 55 – AGRICULTURE

NAG 1 1851 **VA POLYTECHNIC INST & ST UNIV** **9350**
 AIRCRAFT NONLINEAR DYNAMICS STUDIES
 06/26/1996 – 08/15/2000 FY01: -\$1 Total: \$229,641
Prin. Invest.: F H LUTZE, W H MASON
Tech. Officer: LARC/J V FOSTER
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 1881 **VA POLYTECHNIC INST & ST UNIV** **9351**
 RESIN FILM INFUSION (RFI) PROCESS MODELING FOR LARGE TRANSPORT
 AIRCRAFT WING STRUCTURES
 11/22/1996 – 05/15/2000 FY01: -\$1 Total: \$437,187
Prin. Invest.: A C LOOS
Tech. Officer: LARC/H B DEXTER
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 1 1895 **VA POLYTECHNIC INST & ST UNIV** **9352**
 THE NASA-VIRGINIA TECH COMPOSITE PROGRAM: INVESTIGATION OF
 COMPOSITE STRUCTURES
 01/29/1997 – 08/31/2000 FY01: \$0 Total: \$202,273
Prin. Invest.: M W HYER
Tech. Officer: LARC/J H STAMES
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 1942 **VA POLYTECHNIC INST & ST UNIV** **9353**
 TURBULENCE IN HELICOPTER ROTOR FLOWS AND THE MECHANISM OF
 NOISE PRODUCTION
 06/04/1997 – 12/31/2000 FY01: -\$39 Total: \$272,827
Prin. Invest.: W J DEVENPORT
Tech. Officer: LARC/C L BURLEY, LARC/T F BROOKS
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 1959 **VA POLYTECHNIC INST & ST UNIV** **9354**
 EARTH RADIATION MEASUREMENT SCIENCE MY 1/3
 08/05/1997 – 08/15/2000 FY01: -\$14,501 Total: \$298,184
Prin. Invest.: G L SMITH, J R MAHAN
Tech. Officer: LARC/R B LEE, III, LARC/R L HUFFMAN, JR.
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 2106 **VA POLYTECHNIC INST & ST UNIV** **9355**
 EVALUATION AND IMPROVEMENT OF EARTH RADIATION BUDGET DATA
 SETS
 09/17/1998 – 09/30/2001 FY01: \$237,527 Total: \$674,454
Prin. Invest.: M P HAEFFELIN
Tech. Officer: LARC/D F YOUNG
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 2111 **VA POLYTECHNIC INST & ST UNIV** **9356**
 AIRPLANE CONTROL ALLOCATION STUDY
 09/16/1998 – 08/07/2000 FY01: -\$1 Total: \$99,500
Prin. Invest.: W C DURHAM
Tech. Officer: LARC/J V FOSTER
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 2128 **VA POLYTECHNIC INST & ST UNIV** **9357**
 INVESTIGATION OF NOVEL SPACE-BORNE BROADBAND RADIO METER
 CONCEPTS
 01/07/1999 – 10/31/2001 FY01: \$105,319 Total: \$297,806
Prin. Invest.: J R MAHAN
Tech. Officer: LARC/R B LEE, ARC/R L HUFFMAN, JR.
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 1 2137 **VA POLYTECHNIC INST & ST UNIV** **9358**
 CONTROL OF FAN NOISE FROM TURBOFAN ENGINES USING ADAPTIVE
 HERSHEY-QUINCKE TUBES, NRA 98-LARC-3
 01/28/1999 – 04/15/2001 FY01: \$0 Total: \$179,377
Prin. Invest.: R A BURDISSO
Tech. Officer: LARC/C H GERHOLD, LARC/J W POSEY
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 2158 **VA POLYTECHNIC INST & ST UNIV** **9359**
 HYBRID ACTIVE-PASSIVE SYSTEMS FOR CONTROL OF AIRCRAFT
 INTERIOR NOISE
 03/09/1999 – 12/31/2001 FY01: \$146,739 Total: \$414,882
Prin. Invest.: C R FULLER
Tech. Officer: LARC/D L PALUMBO
CASE Category: 46 – MECHANICAL ENGR

NAG 1 2190 **VA POLYTECHNIC INST & ST UNIV** **9360**
 EFFICIENT HYBRID ACTUATION USING SOLID-STATE ACTUATORS
 07/06/1999 – 04/30/2002 FY01: -\$300 Total: \$314,123
Prin. Invest.: D J LEO, H H CUDNEY
Tech. Officer: LARC/G C HORNER, LARC/R G REMUS
CASE Category: 46 – MECHANICAL ENGR

NAG 1 2246 **VA POLYTECHNIC INST & ST UNIV** **9361**
 CONTROL LAW -- CONTROL ALLOCATION INTERACTION
 09/17/1999 – 09/30/2000 FY01: \$0 Total: \$25,000
Prin. Invest.: W C DURHAM
Tech. Officer: LARC/J B DAVIDSON
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 2272 **VA POLYTECHNIC INST & ST UNIV** **9362**
 AERODYNAMIC STUDIES RELATED TO THE AEROACOUSTICS OF
 TILTROTOR BLADES
 03/24/2000 – 02/28/2003 FY01: \$80,000 Total: \$160,000
Prin. Invest.: W J DAVENPORT
Tech. Officer: LARC/C L BURLEY, LARC/T F BROOKS
CASE Category: 41 – AERONAUTICAL ENGR

NAG 1 2277 **VA POLYTECHNIC INST & ST UNIV** **9363**
 FINITE ELEMENT MODEL UPDATING OF UNCERTAIN SYSTEMS
 03/08/2000 – 02/28/2003 FY01: \$30,000 Total: \$62,117
Prin. Invest.: R KAPANIA
Tech. Officer: LARC/L G HORTA, LARC/J JUANG
CASE Category: 46 – MECHANICAL ENGR

NAG 1 01123 VA POLYTECHNIC INST & ST UNIV 9380
 ANALYSIS FOR THE PROGRESSIVE FAILURE RESPONSE OF TEXTILE
 COMPOSITE FUSELAGE FRAMES
 09/18/2001 - 06/09/2002 FY01: \$19,000 Total: \$19,000
Prin. Invest.: E R JOHNSON
Tech. Officer: LARC/R B OITNOTT
CASE Category: 41 - AERONAUTICAL ENGR

NAG 2 1180 VA POLYTECHNIC INST & ST UNIV 9381
 DESIGN SPACE EXPLORATION FOR MDO ON A TERAFLAP COM PUTER
 02/26/1998 - 01/31/2001 FY01: \$0 Total: \$102,830
Prin. Invest.: B GROSSMAN, L T WATSON, W H MASON
Tech. Officer: ARC/G H KLOPTER
CASE Category: 41 - AERONAUTICAL ENGR

NAG 2 1292 VA POLYTECHNIC INST & ST UNIV 9382
 NON-PARAMETIC METHODS FOR AUTOMATED LFIGHT DATA CL ASSIFICA-
 TION
 02/12/1999 - 08/31/2000 FY01: -\$7,593 Total: \$153,024
Prin. Invest.: M R ANDERSON
Tech. Officer: ARC/J C STALER
CASE Category: 41 - AERONAUTICAL ENGR

NAG 2 1486 VA POLYTECHNIC INST & ST UNIV 9383
 PERFORMANCE PREDICTION & VALIDATION FOR SMALL VTOL UAV'S
 06/18/2001 - 02/28/2002 FY01: \$123,980 Total: \$123,980
Prin. Invest.: A MYKLEBUST
Tech. Officer: ARC/T NAUMONICE, ARC/C E HANGE
CASE Category: 41 - AERONAUTICAL ENGR

NAG 2 1521 VA POLYTECHNIC INST & ST UNIV 9384
 ACCELERATING DESIGN INTEGRATED AIRCRAFT SYNTHESIS TOOLS
 09/10/2001 - 08/31/2002 FY01: \$159,020 Total: \$159,020
Prin. Invest.: A MYKLEBUST, J H BOHN
Tech. Officer: ARC/D A WARDWELL
CASE Category: 41 - AERONAUTICAL ENGR

NAG 3 2093 VA POLYTECHNIC INST & ST UNIV 9385
 AN INTEGRATED SYSTEMS APPROACH TOWARDS ACTIVE CONT ROL OF
 THERMO-ACOPUSTIC INSTABILITIES
 12/15/1997 - 10/31/2001 FY01: \$0 Total: \$292,803
Prin. Invest.: U VANDSBURGER, W R SAUNDERS, B GANESHAN
Tech. Officer: GRC/J E MAY
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2098 VA POLYTECHNIC INST & ST UNIV 9386
 ACTIVE & PASSIVE BLADE VIBRATION CONTROL USING MEM S
 12/22/1997 - 11/30/2001 FY01: \$0 Total: \$292,228
Prin. Invest.: W NG
Tech. Officer: GRC/O MEHMED, GRC/G L STEFKO
CASE Category: 46 - MECHANICAL ENGR

NAG 3 2100 VA POLYTECHNIC INST & ST UNIV 9387
 DURABILITY OF CERAMIC MATRIX COMPOSITES AT HIGH TE MPERATURES:
 EXPERIMENTAL STUDIES& PRODICTIVE MO
 01/06/1998 - 11/19/2001 FY01: \$0 Total: \$200,184
Prin. Invest.: W A CURTIN
Tech. Officer: GRC/M H JASKOWIAK
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 4 204 VA POLYTECHNIC INST & ST UNIV 9388
 DIRECT MEASUREMENTS OF SKIN FRICTION ON HIGH-SPEED FLIGHT
 VEHICLES
 03/30/2000 - 03/30/2001 FY01: -\$161 Total: \$74,839
Prin. Invest.: J A SCHETZ
Tech. Officer: DFRC/T T BUI
CASE Category: 41 - AERONAUTICAL ENGR

NAG 4 218 VA POLYTECHNIC INST & ST UNIV 9389
 RESEARCH AND DEVELOPMENT OF SCRAMJET SKIN FRICTION AND HEAT
 FLUX INSTRUMENTATION FOR FLIGHT RESEARC
 01/31/2001 - 01/03/2002 FY01: \$75,000 Total: \$75,000
Prin. Invest.: J A SCHETZ
Tech. Officer: DFRC/T T BUI
CASE Category: 41 - AERONAUTICAL ENGR

NAG 5 5099 VA POLYTECHNIC INST & ST UNIV 9390
 UNDERSTANDING SIGMA NAUGHT BLOOMS AND THEIR EFFECTS ON
 RADAR ALTIMETERS
 12/11/1996 - 11/30/1999 FY01: -\$69 Total: \$81,931
Prin. Invest.: G E BROWN
Tech. Officer: GSFC/G E KAYNE
CASE Category: 33 - OCEANOGRAPHY

NAG 5 5295 VA POLYTECHNIC INST & ST UNIV 9391
 IONOSPHERIC NANOSATELLITE FORMATION (ION-F) SCIENCE
 06/01/2000 - 05/25/2003 FY01: \$51,970 Total: \$99,070
Prin. Invest.: W SCALES
Tech. Officer: GSFC/J C BRINTON
CASE Category: 13 - PHYSICS

NAG 5 8343 VA POLYTECHNIC INST & ST UNIV 9392
 FLUID INCLUSION STUDY OF VOLATILES IN SNC METEORIT ES
 04/08/1999 - 12/31/2000 FY01: \$0 Total: \$71,000
Prin. Invest.: R J BODNAR
Tech. Officer: HQ/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 9291 VA POLYTECHNIC INST & ST UNIV 9393
 ION-F: A SPACE-BASED TESTBED FOR DISTRIBUTED FORMA TION
 CONTROL USING THE HOKIESAT NANOSATELLITE
 03/17/2000 - 03/31/2002 FY01: \$110,000 Total: \$157,000
Prin. Invest.: C HALL
Prin. Invest.: NONE
Tech. Officer: GSFC/K LUU
CASE Category: 41 - AERONAUTICAL ENGR

NAG 5 9744 VA POLYTECHNIC INST & ST UNIV 9394
 LEONARDO MISSION UNIQUE ORBITS
 06/29/2000 - 12/01/2000 FY01: -\$867 Total: \$16,383
Prin. Invest.: D FOLTA
Tech. Officer: GSFC/S HUGHES
CASE Category: 41 - AERONAUTICAL ENGR

NAG 5 10548 VA POLYTECHNIC INST & ST UNIV 9395
 NET ECOSYSTEM PRODUCTIVITY OF MANAGED FORESTS
 03/14/2001 - 03/14/2002 FY01: \$107,659 Total: \$107,659
Prin. Invest.: R WYNNE
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10733 VA POLYTECHNIC INST & ST UNIV 9396
 FLUID AND MELT INCLUSION STUDIES OF VOLATILES IN PLANETARY
 SAMPLES
 04/11/2001 – 04/14/2002 FY01: \$25,000 Total: \$25,000
Prin. Invest.: R BODNAR, NONE
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 10818 VA POLYTECHNIC INST & ST UNIV 9397
 "CONTROL EFFECTIVENESS FOR LEONARDO MISSION ORBITS"
 04/24/2001 – 09/30/2001 FY01: \$40,000 Total: \$40,000
Prin. Invest.: C HALL
Tech. Officer: GSFC/S HUGHES
CASE Category: 41 – AERONAUTICAL ENGR

NAG 5 11315 VA POLYTECHNIC INST & ST UNIV 9398
 TETHERED FORMATION FLYING STUDY-CROSS ENTERPRISE TECH. DEV.
 PROGRAM
 09/05/2001 – 08/31/2004 FY01: \$32,447 Total: \$32,447
Prin. Invest.: C HALL
Tech. Officer: GSFC/D QUINN
CASE Category: 41 – AERONAUTICAL ENGR

NAG 8 1846 VA POLYTECHNIC INST & ST UNIV 9399
 MATERIAL CHARACTERIZATION OF ELASTOMERIC ADHESIVE
 08/09/2001 – 08/09/2002 FY01: \$66,983 Total: \$66,983
Prin. Invest.: D A DILLIARD
Tech. Officer: MSFC/M E PRINCE
CASE Category: 47 – METAL & MATERIALS ENGR

NAS 1 99128 VA POLYTECHNIC INST & ST UNIV 9400
 ADVANCED MODELING AND ANALYSIS TECHNIQUES FOR ADVANCED
 BROADBAND DETECTOR DEVELOPMENT
 07/30/1999 – 07/28/2000 FY01: \$0 Total: \$39,923
Prin. Invest.: J R MAHAN
Tech. Officer: LARC/E KIST, JR.
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCA 1 01002 VA POLYTECHNIC INST & ST UNIV 9401
 VA POLYTECHNIC INST FOR NAT. DECISION SPT SIM MODEL FRAMEWORK
 DEV
 03/15/2001 – 10/31/2001 FY01: \$94,100 Total: \$94,100
Prin. Invest.: A A TRANI, H SWINGLE
Tech. Officer: LARC/S A COOKE
CASE Category: 41 – AERONAUTICAL ENGR

NCC 1 344 VA POLYTECHNIC INST & ST UNIV 9402
 INNOVATIVE LINER CONCEPTS
 06/17/1999 – 09/30/2000 FY01: -\$8,785 Total: \$120,515
Prin. Invest.: R H THOMAS
Tech. Officer: LARC/T L PARROTT, LARC/M G JONES
CASE Category: 41 – AERONAUTICAL ENGR

NCC 1 346 VA POLYTECHNIC INST & ST UNIV 9403
 A UNIFIED PROGRAM FOR THE FLIGHT DYNAMICS AND AERO SERVOELAS-
 TICITY OF WHOLE AIRCRAFT
 06/17/1999 – 06/15/2002 FY01: \$50,000 Total: \$115,000
Prin. Invest.: L MEIROVITCH
Tech. Officer: LARC/M R WAZAK
CASE Category: 41 – AERONAUTICAL ENGR

NCC 1 367 VA POLYTECHNIC INST & ST UNIV 9404
 LOW SPEED ROTOR/FUSELAGE INTERACTIONAL AERODYNAMICS
 01/12/2000 – 10/30/2002 FY01: \$35,186 Total: \$137,867
Prin. Invest.: D D BOYD, R W BARNWELL
Tech. Officer: LARC/H E JONES/Z T APPLIN
CASE Category: 41 – AERONAUTICAL ENGR

NCC 1 398 VA POLYTECHNIC INST & ST UNIV 9405
 INTERFACE FINITE ELEMENTS FOR ANALYSIS OF FRACTURE INITIATION &
 PROGRESSION
 05/15/2000 – 05/14/2003 FY01: \$84,284 Total: \$107,278
Prin. Invest.: E R JOHNSON
Tech. Officer: LARC/D R AMBUR
CASE Category: 41 – AERONAUTICAL ENGR

NCC 1 405 VA POLYTECHNIC INST & ST UNIV 9406
 SCIENTIFIC INVESTIGATIONS WITH RADIATION BUDGET DATA
 08/10/2000 – 08/15/2003 FY01: \$111,068 Total: \$135,383
Prin. Invest.: G L SMITH
Tech. Officer: LARC/R B LEE III, LARC/R L HUFFMAN JR.
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 1 01029 VA POLYTECHNIC INST & ST UNIV 9407
 DEVELOPMENT OF AN EFFICIENT BINAURAL SIMULATION FOR THE ANAL-
 YSIS OF STRUCTURAL ACOUSTIC DATA
 03/14/2001 – 12/31/2002 FY01: \$50,757 Total: \$50,757
Prin. Invest.: M E JOHNSON
Tech. Officer: LARC/S A RIZZI
CASE Category: 41 – AERONAUTICAL ENGR

NCC 1 01037 VA POLYTECHNIC INST & ST UNIV 9408
 VARTM MODEL DEVELOPMENT AND VERIFICATION
 04/12/2001 – 04/11/2004 FY01: \$74,989 Total: \$74,989
Prin. Invest.: A C LOOS
Tech. Officer: LARC/R J CANO, LARC/B J JENSEN
CASE Category: 47 – METAL & MATERIALS ENGR

NCC 1 01044 VA POLYTECHNIC INST & ST UNIV 9409
 NEW NANO-SPHERE MATERIALS: MAGNETIC AND DIELECTRIC PROPER-
 TIES OF THE A3N@C80 ENDOHEDRAL
 04/12/2001 – 01/12/2004 FY01: \$70,650 Total: \$70,650
Prin. Invest.: H C DORN
Tech. Officer: LARC/S H CHOI, LARC/G C KING
CASE Category: 12 – CHEMISTRY

NCC 2 5433 VA POLYTECHNIC INST & ST UNIV 9410
 AEROELASTIC DESIGN OF WINGS USING NON-TRADITIONAL METHODS
 04/25/2001 – 09/30/2002 FY01: \$47,023 Total: \$47,023
Prin. Invest.: R K KAPANIA
Tech. Officer: ARC/T L HOLST, ARC/G GURASWANY
CASE Category: 22 – COMPUTER SCIENCE

NCC 3 866 VA POLYTECHNIC INST & ST UNIV 9411
 HIGH TEMPERATURE PROTON EXCHANGE MEMBRANDS FOR FUE L CELLS
 02/20/2001 – 12/31/2001 FY01: \$69,815 Total: \$69,815
Prin. Invest.: J E MCGRATH
Tech. Officer: GRC/M B MEADOR
CASE Category: 12 – CHEMISTRY

<p>NGT 1 01002 VA POLYTECHNIC INST & ST UNIV 9412 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) 11/14/2000 – 10/31/2001 FY01: \$17,721 Total: \$17,721 <i>Prin. Invest.:</i> J J KELLEY <i>Tech. Officer:</i> LARC/R H THOMAS <i>CASE Category:</i> 41 – AERONAUTICAL ENGR</p>	<p>NGT 1 52224 VA POLYTECHNIC INST & ST UNIV 9421 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) 09/27/1999 – 08/31/2001 FY01: \$12,000 Total: \$44,000 <i>Prin. Invest.:</i> G J OGLE <i>Tech. Officer:</i> LARC/J M SEATON <i>CASE Category:</i> 22 – COMPUTER SCIENCE</p>
<p>NGT 1 01003 VA POLYTECHNIC INST & ST UNIV 9413 GRADUATE STUDENT RESEARCHERS PROGRAM 01/26/2001 – 12/31/2001 FY01: \$22,000 Total: \$22,000 <i>Prin. Invest.:</i> T C WARD <i>Tech. Officer:</i> LARC/E J SIOCHI, LARC/J A HINKLEY <i>CASE Category:</i> 12 – CHEMISTRY</p>	<p>NGT 1 52226 VA POLYTECHNIC INST & ST UNIV 9422 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) 12/20/1999 – 12/31/2000 FY01: \$0 Total: \$22,000 <i>Prin. Invest.:</i> A C LOOS <i>Tech. Officer:</i> LARC/N J JOHNSTON <i>CASE Category:</i> 41 – AERONAUTICAL ENGR</p>
<p>NGT 1 01033 VA POLYTECHNIC INST & ST UNIV 9414 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) MY 1/3 06/22/2001 – 06/30/2004 FY01: \$12,000 Total: \$12,000 <i>Prin. Invest.:</i> T LONG <i>Tech. Officer:</i> LARC/E J SIOCHI <i>CASE Category:</i> 41 – AERONAUTICAL ENGR</p>	<p>NGT 1 52246 VA POLYTECHNIC INST & ST UNIV 9423 TRAINING GRANT – ADAPTIVE SYSTEM IDENTIFICATION AND CONTROL TECHNIQUES FOR STRUCTURAL NOISE REDUC- 08/25/2000 – 06/14/2001 FY01: \$24,543 Total: \$36,543 <i>Prin. Invest.:</i> M AHMODEON <i>Tech. Officer:</i> LARC/D L PALOMBO <i>CASE Category:</i> 49 – ENGINEERING, OTHER</p>
<p>NGT 1 01035 VA POLYTECHNIC INST & ST UNIV 9415 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) MY 1/3 06/25/2001 – 06/30/2004 FY01: \$22,000 Total: \$22,000 <i>Prin. Invest.:</i> D P TELIONES <i>Tech. Officer:</i> LARC/A E WASHBURN, LARC/W L SELLERS <i>CASE Category:</i> 41 – AERONAUTICAL ENGR</p>	<p>NGT 1 52248 VA POLYTECHNIC INST & ST UNIV 9424 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) 08/01/2000 – 06/30/2002 FY01: \$24,001 Total: \$34,001 <i>Prin. Invest.:</i> A M SMITH, J R MAHAN <i>Tech. Officer:</i> LARC/K J PRIESTLEY, LARC/R B LEE III <i>CASE Category:</i> 46 – MECHANICAL ENGR</p>
<p>NGT 1 01038 VA POLYTECHNIC INST & ST UNIV 9416 GSRP 09/10/2001 – 12/31/2002 FY01: \$10,000 Total: \$10,000 <i>Prin. Invest.:</i> M AHMADIAN <i>Tech. Officer:</i> LARC/D L PALOMBO <i>CASE Category:</i> 46 – MECHANICAL ENGR</p>	<p>NGT 5 30198 VA POLYTECHNIC INST & ST UNIV 9425 ESTIMATING FOREST VEGETATION BIOMASS USING AIRBORNE LIDAR MEASUREMENTS STUDENT: SORIN POPESCU 08/24/1999 – 08/31/2002 FY01: \$22,000 Total: \$66,000 <i>Prin. Invest.:</i> R H WYNNE <i>Tech. Officer:</i> GSFC/M WEI <i>CASE Category:</i> 39 – ENVIRONMENTAL SCI, OTHER</p>
<p>NGT 1 52112 VA POLYTECHNIC INST & ST UNIV 9417 GRADUATE STUDENT RESEARCHER PROGRAM 06/19/1995 – 06/30/2000 FY01: \$1 Total: \$110,001 <i>Prin. Invest.:</i> M W HYER <i>Tech. Officer:</i> LARC/J H STARNES, JR. <i>CASE Category:</i> 41 – AERONAUTICAL ENGR</p>	<p>NGT 5 50260 VA POLYTECHNIC INST & ST UNIV 9426 A SHARED AUGMENTED REALITY SYSTEM FOR COMMUNICATION ACROSS ENVIRONMENTS STUDENT: WILLIAM STADERMAN 07/07/1999 – 06/30/2002 FY01: \$22,000 Total: \$66,000 <i>Prin. Invest.:</i> B M KLEINER <i>Tech. Officer:</i> GSFC/L SMITH <i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER</p>
<p>NGT 1 52174 VA POLYTECHNIC INST & ST UNIV 9418 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) 05/29/1997 – 08/31/2000 FY01: -\$2,227 Total: \$63,773 <i>Prin. Invest.:</i> J A NEWMAN <i>Tech. Officer:</i> LARC/R S PIASCLK <i>CASE Category:</i> 49 – ENGINEERING, OTHER</p>	<p>NGT 5 50262 VA POLYTECHNIC INST & ST UNIV 9427 SHORT-TERM TIME COURSE SKELETAL RESPONSES TO HIGH INTENSITY PHYSICAL ACTIVITY 07/08/1999 – 06/30/2000 FY01: \$0 Total: \$22,000 <i>Prin. Invest.:</i> W HERBERT <i>Tech. Officer:</i> GSFC/L SMITH <i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER</p>
<p>NGT 1 52184 VA POLYTECHNIC INST & ST UNIV 9419 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) 05/12/1998 – 06/30/2001 FY01: \$24,000 Total: \$78,000 <i>Prin. Invest.:</i> J BURTON <i>Tech. Officer:</i> LARC/J M SEATON <i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE</p>	<p>NGT 8 52909 VA POLYTECHNIC INST & ST UNIV 9428 DEVELOPMENT OF SELF-MONITORING AND SELF-HEALING BOLTED JOINTS 05/25/2001 – 07/01/2004 FY01: \$22,000 Total: \$22,000 <i>Prin. Invest.:</i> D J INMAN <i>Tech. Officer:</i> MSFC/S NASH-STEVENSON <i>CASE Category:</i> 46 – MECHANICAL ENGR</p>
<p>NGT 1 52202 VA POLYTECHNIC INST & ST UNIV 9420 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP) 09/01/1998 – 06/30/2000 FY01: -\$1,584 Total: \$42,416 <i>Prin. Invest.:</i> J R MOHAN <i>Tech. Officer:</i> LARC/M HENDERSON <i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE</p>	

NAG 1 2302 VIRGINIA COMMONWEALTH UNIV 9429
ELECTRIC FIELD-MEDIATED PROCESSING OF POLYMERS
06/07/2000 - 01/14/2002 FY01: \$0 Total: \$38,512
Prin. Invest.: G E WNEK, T W HAAS, G L BOWLIN
Tech. Officer: LARC/J S HARRISON, LARC/E J SIOCHI
CASE Category: 43 - CHEMICAL ENGR

NAG 1 01042 VIRGINIA COMMONWEALTH UNIV 9430
A MINIATURE EMBEDDED RECONFIGURABLE COMPUTER AND LOGIC
MODULE
04/09/2001 - 02/21/2002 FY01: \$39,957 Total: \$39,957
Prin. Invest.: J H TUCKER, NONE
Tech. Officer: LARC/Q A SHAMS
CASE Category: 45 - ELECTRICAL ENGR

NAG 8 1276 VIRGINIA COMMONWEALTH UNIV 9431
STUDIES ON POLYMERIZATION AND NANOPARTICLE COMPOSITES
04/25/1996 - 04/30/2000 FY01: -\$255 Total: \$339,745
Prin. Invest.: S EL-SHALL
Tech. Officer: MSFC/D R WOODARD, MSFC/B G PENN
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1484 VIRGINIA COMMONWEALTH UNIV 9432
R/S GAS PHASE POLYMERIZATION AND NUCLEATION EXPERIMENTS IN
MICROGRAVITY
02/01/1998 - 01/31/2002 FY01: \$114,000 Total: \$430,000
Prin. Invest.: M S EL-SHALL
Tech. Officer: MSFC/P M DOTY
CASE Category: 12 - CHEMISTRY

NAS 9 19539 VIRGINIA COMMONWEALTH UNIV 9433
NEUROLAB EXPERIMENT DOCUMENT FOR E-049
02/22/1996 - 09/30/2001 FY01: \$0 Total: \$915,438
Prin. Invest.: D ECKBURG
Tech. Officer: JSC/A LEE
CASE Category: 56 - MEDICL

NAS 9 19541 VIRGINIA COMMONWEALTH UNIV 9434
AUTONOMIC MECHANISMS DURING PROLONGED WEIGHTLESSNESS
03/14/1996 - 02/28/2002 FY01: \$0 Total: \$749,668
Prin. Invest.: H B CHERMSIDE
Tech. Officer: JSC/C M BUNTIN
CASE Category: 54 - ENVIRONMENTAL BIOLOGY

NCC 3 645 VIRGINIA COMMONWEALTH UNIV 9435
INVESTIGATION OF BOUNDARY LAYER DEVELOPMENT I LOW- PRESSURE
TURBINE STAGES
09/03/1998 - 10/31/2000 FY01: \$0 Total: \$127,310
Prin. Invest.: D J DORNEY
Tech. Officer: GRC/D E ASHPIS
CASE Category: 41 - AERONAUTICAL ENGR

NCC 9 87 VIRGINIA COMMONWEALTH UNIV 9436
MEDICAL INFORMANTICS AND TECH APPLICATIONS CONSORTIUM
07/01/1999 - 06/30/2002 FY01: \$2,528,884 Total: \$5,772,199
Prin. Invest.: R C MERRELL
Tech. Officer: JSC/J S LOGAN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

WASHINGTON

NAG 5 7672 CENTRAL WASHINGTON UNIV 9437
FUNDING FOR 'VARIATIONS IN SEA LEVEL CHANGE ALONG THE CASCADIA
MARGIN..' (SENH98-0083)
09/01/1998 - 06/30/2002 FY01: \$37,000 Total: \$294,208
Prin. Invest.: M MILLER
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 10501 CENTRAL WASHINGTON UNIV 9438
APPLICATIONS OF DIGITAL ELEVATION MODELS TO THE ACTIVE
TECTONICS & PALEOCLIMATE OF CENTRAL ASIA
03/02/2001 - 02/28/2002 FY01: \$19,000 Total: \$19,000
Prin. Invest.: C RUBIN
Tech. Officer: GSFC/H V FREY
CASE Category: 22 - COMPUTER SCIENCE

NAG 2 6041 EASTERN WASHINGTON UNIV 9439
THE SCIENCE OLYMPIAD PROJECT
02/08/2000 - 01/31/2001 FY01: \$0 Total: \$25,000
Prin. Invest.: R SOLTERO
Tech. Officer: ARC/D JAMES
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 2 6034 HERITAGE COLLEGE 9440
ENHANCING SCIENCE TEACHER TRAINING USING WATER RESOURCES &
GLOBE
06/10/1999 - 03/31/2002 FY01: \$182,311 Total: \$512,930
Prin. Invest.: P T ALEXANDER
Tech. Officer: ARC/B J COLLINS, ARC/G S LEE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG13 99027 HERITAGE COLLEGE 9441
APPLICATION OF REMOTELY SENSED INFORMATION TO ENVIRONMENTAL
PROBLEMS OF HISPANICS AND NATIVE AM
09/08/1999 - 09/26/2001 FY01: \$51,950 Total: \$198,642
Prin. Invest.: J W FALCO
Tech. Officer: SSC/R TRAVIS
CASE Category: 62 - PSYCHOLOGY SOCIAL ASPECTS

NCC 5 423 NORTHWEST INDIAN COLLEGE 9442
ASSESSING AGRICULTURAL LAND CONVERSION IMPACTS TO TRIBAL FISH-
ERIES USING NASA SATELLITE IMAGERY
09/13/1999 - 08/31/2001 FY01: \$97,754 Total: \$175,043
Prin. Invest.: G BLEDSOE
Tech. Officer: GSFC/M JASINSKI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 1 2055 UNIV OF WASHINGTON 9443
STRUCTURAL DESIGN METHODOLOGY BASED ON CONCEPTS OF UNCER-
TAINTY
05/08/1998 - 06/30/2000 FY01: -\$976 Total: \$200,547
Prin. Invest.: K Y LIN
Tech. Officer: LARC/W J STROUD
CASE Category: 41 - AERONAUTICAL ENGR

NAG 1 2072 UNIV OF WASHINGTON 9444
 COORD'D PARAMETERIZATION DEV & LG-EDDY SIMULATION FOR MARINE
 & ARCTIC CLOUD-TOPPED BOUNDARY LAYERS
 06/12/1998 - 03/31/2002 FY01: \$19,000 Total: \$236,000
Prin. Invest.: C S BERTHERTON
Tech. Officer: LARC/D S MCDUGAL, LARC/J RAPER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 2079 UNIV OF WASHINGTON 9445
 AIRBORNE STUDIES IN THE ARCTIC IN SUPPORT OF FIRE III
 06/12/1998 - 03/31/2002 FY01: \$41,000 Total: \$736,064
Prin. Invest.: P V HOBBS, D A HEGG
Tech. Officer: LARC/D S MCDUGAL, LARC/J RAPER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 2193 UNIV OF WASHINGTON 9446
 DYNAMICAL COUPLING OF STRATOSPHERE & TROPOSPHERE
 05/12/1999 - 03/30/2002 FY01: \$112,524 Total: \$354,994
Prin. Invest.: J R HOLTON
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 1 2200 UNIV OF WASHINGTON 9447
 COUPLING SATELLITE AND GROUND-BASED INSTRUMENTS TO MAP
 CLIMATE FORCING BY ANTHROPOGENIC AEROSOLS
 06/04/1999 - 08/15/2000 FY01: -\$197 Total: \$76,866
Prin. Invest.: R J CHARLSON
Tech. Officer: LARC/C A HOSTELER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 2296 UNIV OF WASHINGTON 9448
 PROBABILISTIC STRUCTURAL INSPECTION OPTIMIZATION WITH BAYESIAN
 UPDATING OF DAMAGE CHARACTERISTICS
 06/01/2000 - 06/30/2002 FY01: \$72,000 Total: \$130,000
Prin. Invest.: K Y LIN
Tech. Officer: LARC/W J STLOUD, LARC/I S RAJU
CASE Category: 49 - ENGINEERING, OTHER

NAG 1 01029 UNIV OF WASHINGTON 9449
 INTEGRATED AEROSERVOELASTIC OPTIMIZATION OF FULL-SCALE
 STRAIN-ACTUATED AIRPLANES: TOOL DEVELOPMENT
 02/15/2001 - 12/31/2003 FY01: \$53,000 Total: \$53,000
Prin. Invest.: E LIVNE
Tech. Officer: LARC/C D WIESEMAN, LARC/R C SCOTT
CASE Category: 41 - AERONAUTICAL ENGR

NAG 1 01078 UNIV OF WASHINGTON 9450
 TOUGHENED RESIN DEVELOPMENT AND COMPOSITE SYSTEMS FOR
 VARTM APPLICATIONS
 05/24/2001 - 05/30/2004 FY01: \$118,500 Total: \$118,500
Prin. Invest.: J C SEFERIS
Tech. Officer: LARC/B J JENSEN, LARC/R J CANO
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 2 1157 UNIV OF WASHINGTON 9451
 PRESSURE SENSITIVE PAINT: IMPROVED QUALITY CONTROL &
 REFERNCING
 08/27/1997 - 01/14/2000 FY01: -\$361 Total: \$371,639
Prin. Invest.: M P GOUTERMAN
Tech. Officer: ARC/J H BELL, ARC/E T SCHAIRER
CASE Category: 12 - CHEMISTRY

NAG 2 1450 UNIV OF WASHINGTON 9452
 NETWORK SERVER PARADIGMS FOR AIR TRAFFIC MANAGEMENT
 AUTOMATION
 12/14/2000 - 12/31/2001 FY01: \$27,939 Total: \$27,939
Prin. Invest.: S DEVASIA
Tech. Officer: ARC/G MEYER
CASE Category: 49 - ENGINEERING, OTHER

NAG 2 1514 UNIV OF WASHINGTON 9453
 THE ROLE OF THE HOMEBOX TRANSCRIPTION FACTOR, CPPO X1, IN
 DEVELOPMENT OF THE VESTIBULAR PERIPHERY IN
 08/17/2001 - 07/14/2002 FY01: \$71,220 Total: \$71,220
Prin. Invest.: J S STONE
Prin. Invest.: NONE
Tech. Officer: ARC/M MAVERNER
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 3 1837 UNIV OF WASHINGTON 9454
 PHORETIC AND RADIMEDTRIC FORCE MEASUREMENT ON MICROPARTICLES
 UN MICROGRAVITY CONDITIONS
 04/22/1996 - 09/30/2000 FY01: -\$1,971 Total: \$318,029
Prin. Invest.: E J DAVIS
Tech. Officer: GRC/J S LING, GRC/B S SINGH
CASE Category: 13 - PHYSICS

NAG 3 1865 UNIV OF WASHINGTON 9455
 INDIUM MONO-ION OSCILLATOR II
 07/23/1996 - 01/01/2001 FY01: \$0 Total: \$450,000
Prin. Invest.: W NAGOURNEY, M DEHMELT
Tech. Officer: GRC/B S SINGH
CASE Category: 13 - PHYSICS

NAG 3 2379 UNIV OF WASHINGTON 9456
 BUOYANCY-DRIVEN INSTABILITIES IN SINGLE-BUBBLE SONOLUMINES-
 CENCE (REF.# 123814)
 04/04/2000 - 11/30/2003 FY01: \$95,000 Total: \$160,000
Prin. Invest.: T J MATULA
Tech. Officer: GRC/N R HALL
CASE Category: 49 - ENGINEERING, OTHER

NAG 3 2455 UNIV OF WASHINGTON 9457
 PRESSURE SENSITIVE (PSP) FOR TWO SENSOR LIFETIME MEASUREMENT
 OF PRESSURE AND TEMPERATURE
 06/07/2000 - 09/30/2002 FY01: \$65,000 Total: \$105,000
Prin. Invest.: D GOUTERMAN
Tech. Officer: GRC/T BENCIC
CASE Category: 12 - CHEMISTRY

NAG 3 2517 UNIV OF WASHINGTON 9458
 INVESTIGATION OF THE LIFTOFF AND BLOWOUT OF TRANSITIONAL AND
 TURBULENT JET FLAMES
 01/09/2001 - 11/30/2004 FY01: \$80,000 Total: \$80,000
Prin. Invest.: D RILEY
Tech. Officer: GRC/J E BROOKER
CASE Category: 49 - ENGINEERING, OTHER

NAG 5 2767 UNIV OF WASHINGTON 9459
 THE ACCRETION AND SPECTRUM OF U GEM IN QUIESCENCE
 10/26/1994 - 11/14/1999 FY01: -\$346 Total: \$27,950
Prin. Invest.: P SZKODY
Tech. Officer: GSFC/N WHITE
CASE Category: 11 - ASTRONOMY

NAG 5 3023 UNIV OF WASHINGTON 9460
 THE EVOLUTION OF GALAXIES AND CLUSTERS OF GALAXIES
 10/02/1995 - 09/30/2000 FY01: \$0 Total: \$270,000
Prin. Invest.: G R LAKE
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 3121 UNIV OF WASHINGTON 9461
 A STUDY OF MAGNETIC ACCRETION IN VV PUP AND BL HYI
 10/18/1995 - 10/31/2000 FY01: \$0 Total: \$20,346
Prin. Invest.: P SZKODY
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 3170 UNIV OF WASHINGTON 9462
 POLAR ULTRAVIOLET IMAGING DATA ANALYSIS
 02/22/1996 - 12/31/1999 FY01: -\$9 Total: \$1,880,266
Prin. Invest.: G K PARKS
Tech. Officer: GSFC/R A HOFFMAN
CASE Category: 69 - PSYCHOLOGY, OTHER

NAG 5 3345 UNIV OF WASHINGTON 9463
 SPACE SPECTROSCOPY OF THE WHITE DWARFS IN CATACLYS MIC VARI-
 ABLES: PROBES OF ACCRETION PROCESSES.....
 08/13/1996 - 08/14/2000 FY01: \$0 Total: \$99,837
Prin. Invest.: P SZKODY
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 4242 UNIV OF WASHINGTON 9464
 A THEORETICAL STUDY OF PROCESSES DRIVING THE FORMA
 04/17/1997 - 04/14/2001 FY01: \$0 Total: \$204,872
Prin. Invest.: T QUIN
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 4375 UNIV OF WASHINGTON 9465
 POLAR EXCHANGE AT THE SEA SURFACE
 06/11/1997 - 05/31/2001 FY01: \$0 Total: \$2,914,703
Prin. Invest.: D A ROTHROCK
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 4473 UNIV OF WASHINGTON 9466
 INTERPLANETARY DUST
 06/02/1997 - 03/14/2001 FY01: \$0 Total: \$552,000
Prin. Invest.: D E BROWNLEE
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 4540 UNIV OF WASHINGTON 9467
 THERMAL HISTORY OF LUNAR CRUSTAL ROCKS
 05/06/1997 - 12/14/2001 FY01: \$34,000 Total: \$165,000
Prin. Invest.: D S MCCALLUM
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 - ASTRONOMY

NAG 5 4630 UNIV OF WASHINGTON 9468
 AEROSOL CONCENTRATIONS AND LARGE SCALE CLOUD DISTR
 BOUNDARY LAYER
 05/21/1997 - 01/31/2000 FY01: -\$490 Total: \$120,807
Prin. Invest.: M B BAKER
Tech. Officer: GSFC/M CHOU
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 4681 UNIV OF WASHINGTON 9469
 ENERGY DISTRIBUTION WITHIN THE TERRESTRIAL MAGNETO WITH
 NUMERICAL MODELS
 06/17/1997 - 03/31/2000 FY01: -\$7 Total: \$105,129
Prin. Invest.: D MCCARTHY, NONE
Tech. Officer: GSFC/J GREBOWSKY
CASE Category: 13 - PHYSICS

NAG 5 4712 UNIV OF WASHINGTON 9470
 TITLE: THE REGIONAL AMAZON MODEL SYNOPTIC SCALE H
 BIOGEOCHEMICAL CYCLES FROM EOS (EOSRAM)
 06/23/1997 - 06/30/2001 FY01: \$0 Total: \$1,169,956
Prin. Invest.: J RICHEY
Tech. Officer: GSFC/A C JANETOS
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 4739 UNIV OF WASHINGTON 9471
 RADIATIVE TRANSFER IN SNOW TERRAIN FOR APPLICATION REMOTE
 SENSING
 06/17/1997 - 03/14/2001 FY01: \$0 Total: \$106,208
Prin. Invest.: L TSANG
Tech. Officer: GSFC/A T CHANG
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 4791 UNIV OF WASHINGTON 9472
 MONITORING THE ACCRETION OF TWO OLD NOVAE
 06/17/1997 - 12/31/2000 FY01: \$0 Total: \$5,000
Prin. Invest.: P SZKODY
Tech. Officer: GSFC/J SWANK
CASE Category: 11 - ASTRONOMY

NAG 5 4795 UNIV OF WASHINGTON 9473
 TRMM VALIDATION: INTEGRATION OF TRMM SATELLITE AN DATA TO
 DETERMINE TROPICAL HEATING
 09/08/1997 - 03/15/2001 FY01: \$0 Total: \$806,179
Prin. Invest.: R A HOUZE,JR.
Tech. Officer: GSFC/R W LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 5183 UNIV OF WASHINGTON 9474
 DROPPS: DISTRIBUTION AND ROLE OF PARTICLES IN THE POLAR SUMMER
 MESOSPHERE
 03/13/1998 - 03/31/2002 FY01: \$0 Total: \$168,353
Prin. Invest.: R H HOLZWORTH
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 - PHYSICS

NAG 5 5190 UNIV OF WASHINGTON 9475
 ATMOSPHERIC LIGHTNING ATMOSPHERIC LIGHTNING
 04/16/1998 - 04/20/2002 FY01: \$0 Total: \$201,960
Prin. Invest.: M MCCARTHY
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 - PHYSICS

NAG 5 5294 **UNIV OF WASHINGTON** **9476**
 IONOSPHERIC NANOSATELLITE FORMATION (ION-F) SCIENCE
 06/01/2000 - 05/25/2003 FY01: \$70,792 Total: \$91,092
Prin. Invest.: J D SAHR
Tech. Officer: GSFC/J C BRINTON
CASE Category: 13 - PHYSICS

NAG 5 6067 **UNIV OF WASHINGTON** **9477**
 IMPACT OF FOREST CLEARCUTTING IN THE PACIFIC NORTH OD EVENTS
 07/28/1997 - 07/31/2001 FY01: \$0 Total: \$255,000
Prin. Invest.: A GILLESPIE
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 6101 **UNIV OF WASHINGTON** **9478**
 CLIMATE PROCESSES OVER THE OCEAN
 07/24/1997 - 07/31/2001 FY01: \$0 Total: \$1,674,000
Prin. Invest.: D HARTMANN
Tech. Officer: GSFC/J A CURRAN
CASE Category: 33 - OCEANOGRAPHY

NAG 5 6297 **UNIV OF WASHINGTON** **9479**
 UNIV OF WASHINGTON - RESEARCH EARTH SYSTEM S
 09/15/1997 - 08/31/2000 FY01: \$0 Total: \$225,000
Prin. Invest.: J M DECOSMO
Tech. Officer: GSFC/N KHAZENI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6328 **UNIV OF WASHINGTON** **9480**
 PLASMODESMATA AND THE CONTROL OF GRAVITROPISM
 09/11/1997 - 09/30/2001 FY01: \$0 Total: \$65,000
Prin. Invest.: D CLELAND
Tech. Officer: GSFC/M AVERNER
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 5 6463 **UNIV OF WASHINGTON** **9481**
 BROADBAND INFRARED THERMOMETER MEASUREMENTS FOR MO DIS
 VALIDATION
 10/14/1997 - 03/31/2002 FY01: \$175,168 Total: \$801,752
Prin. Invest.: A T JESSUP
Tech. Officer: GSFC/D O STARR
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 6493 **UNIV OF WASHINGTON** **9482**
 VALIDATION OF RADARSAT GEOPHYSICAL PROCESSOR SYSTEMS PROD-
 UCTS
 10/27/1997 - 09/30/2001 FY01: \$0 Total: \$366,447
Prin. Invest.: R LINDSAY
Tech. Officer: GSFC/J DODGE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6505 **UNIV OF WASHINGTON** **9483**
 ESTIMATION OF FLOOD HAZARDS THROUGH REMOTE SENSING AND
 MODELING (SENH 06-0114, LETTENMAIR AND WOO
 10/24/1997 - 04/30/2001 FY01: \$0 Total: \$152,500
Prin. Invest.: D LETTENMAIR
Prin. Invest.: NONE
Tech. Officer: GSFC/H FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 6626 **UNIV OF WASHINGTON** **9484**
 CODES TO ENABLE DIRECT SIMULATION OF SOLAR SYSTEM FORMATION.
 11/17/1997 - 11/14/2001 FY01: \$0 Total: \$451,354
Prin. Invest.: G LAKE
Tech. Officer: GSFC/J FISCHER
CASE Category: 11 - ASTRONOMY

NAG 5 6688 **UNIV OF WASHINGTON** **9485**
 A CONTINUED STUDY OF ACCRETION IN MAGNETIC SYSTEMS WITH
 LARGE RATIOS OF SOFT/HARD X-RAYS
 12/01/1997 - 10/31/2000 FY01: \$0 Total: \$11,520
Prin. Invest.: P SZKODY
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 6819 **UNIV OF WASHINGTON** **9486**
 SATELLITE OBSERVATIONS OF ICE SHEET CLIMATE VARIATIONS ON
 DECADEAL TIME SCALES
 01/08/1998 - 12/31/2000 FY01: -\$263 Total: \$339,203
Prin. Invest.: D WINEBRENNER
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6894 **UNIV OF WASHINGTON** **9487**
 SATELLITE STUDIES OF THE ICE COVERS OF THE OKHOTSK & SIBERIAN
 SHELF SEAS
 01/16/1998 - 12/31/2000 FY01: \$0 Total: \$162,550
Prin. Invest.: S MARTIN
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6924 **UNIV OF WASHINGTON** **9488**
 GRANT
 02/04/1998 - 01/31/2001 FY01: \$0 Total: \$478,269
Prin. Invest.: G PARKS
Tech. Officer: GSFC/M HESSE
CASE Category: 13 - PHYSICS

NAG 5 7090 **UNIV OF WASHINGTON** **9489**
 WAVE DYNAMICS AND TRANSPORT IN THE MIDDLE ATMOSPHERE (UARS)
 02/24/1998 - 02/28/2001 FY01: \$0 Total: \$297,883
Prin. Invest.: D R HOLTON
Tech. Officer: GSFC/A DOUGLASS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7114 **UNIV OF WASHINGTON** **9490**
 WIND DATA ANALYSIS USING THE 3-D INSTRUMENT
 03/31/1998 - 03/31/2002 FY01: \$0 Total: \$392,000
Prin. Invest.: G PARKS
Tech. Officer: GSFC/K OGILVIE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 7278 **UNIV OF WASHINGTON** **9491**
 XTE PROPOSAL - THE OUTBURST CYCLE OF V803 CEN
 04/15/1998 - 04/30/2001 FY01: \$0 Total: \$10,353
Prin. Invest.: P SZKODY
Tech. Officer: GSFC/J SWANK
CASE Category: 11 - ASTRONOMY

NAG 5 7300 **UNIV OF WASHINGTON** **9492**
 EVALUATION OF HYDROLOGIC CONTROLS ON CATCHMENT SCALE
 ENERGY & MOISTURE FLUXES
 05/27/1998 - 04/30/2001 FY01: \$0 Total: \$107,072
Prin. Invest.: D LETTENMAIER
Tech. Officer: GSFC/D WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7330 **UNIV OF WASHINGTON** **9493**
 XTE PROPOSAL - TIMING THE X-RAY SOURCE IN NCG 6652 : THE REMAINING LUMINOUS GLOBULAR CLUSTER
 04/24/1998 - 04/30/2002 FY01: \$0 Total: \$20,200
Prin. Invest.: B MARGON
Tech. Officer: GSFC/L KALUZIENSKI
CASE Category: 11 - ASTRONOMY

NAG 5 7495 **UNIV OF WASHINGTON** **9494**
 MAPPING THE SPATIAL DISTRIBUTION AND TIME EVOLUTION OF SNOW-WATER EQUIVALENT WITH PASSIVE MICROWAVE
 06/29/1998 - 09/14/2001 FY01: \$0 Total: \$350,000
Prin. Invest.: L TSANG
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 7526 **UNIV OF WASHINGTON** **9495**
 EVALUATION OF OCEANIC COOL-SKIN AND WARM LAYER MODELS USING LONG-TERM MEASUREMENTS
 06/08/1998 - 05/31/2002 FY01: \$100,000 Total: \$435,721
Prin. Invest.: A T JESSUP
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7550 **UNIV OF WASHINGTON** **9496**
 AIRBORNE MICROWAVE IMAGING OF RIVER VELOCITIES
 06/30/1998 - 12/31/2001 FY01: \$0 Total: \$330,000
Prin. Invest.: W J PLANT
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 7604 **UNIV OF WASHINGTON** **9497**
 CIS NET: IN SITU AND REMOTE MONITORING OF PRODUCTIVITY AND NUTRIENT CYCLES IN PUGET SOUND
 07/21/1998 - 09/30/2001 FY01: \$23,691 Total: \$179,832
Prin. Invest.: B FROST
Tech. Officer: GSFC/J W MARRA
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7675 **UNIV OF WASHINGTON** **9498**
 UTILIZATION OF THE UNIV OF WASHINGTON'S AIRBORNE MEASUREMENTS FOR STUDIES OF THE RADIATIVE EFFECTS OF
 09/09/1998 - 08/31/2002 FY01: \$138,062 Total: \$396,062
Prin. Invest.: P V HOBBS
Tech. Officer: GSFC/M I MISHCHENKO
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7732 **UNIV OF WASHINGTON** **9499**
 POLAR UVI MISSION DATA ANALYSIS EXTENDED MISSION
 09/29/1998 - 09/30/2001 FY01: \$0 Total: \$1,141,740
Prin. Invest.: G K PARKS
Tech. Officer: GSFC/R HOFFMAN
CASE Category: 13 - PHYSICS

NAG 5 7819 **UNIV OF WASHINGTON** **9500**
 EOS OBSERVATION RESOURCE
 12/14/1998 - 12/31/2001 FY01: \$0 Total: \$549,872
Prin. Invest.: P V HOBBS
Tech. Officer: GSFC/M D KING
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7847 **UNIV OF WASHINGTON** **9501**
 VARIABILITY OF NET PRECIPITATION OVER ANTARCTIC SEA ICE AND ITS EFFECTS ON ICE-OCEAN INTERACTIONS
 11/23/1998 - 12/31/2001 FY01: \$110,629 Total: \$328,625
Prin. Invest.: A SCHWEIGER
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7886 **UNIV OF WASHINGTON** **9502**
 VALIDATION OF ACOUSTICAL RAINFALL MEASUREMENTS
 12/02/1998 - 09/30/2001 FY01: \$31,893 Total: \$201,504
Prin. Invest.: J A NYSTUEN
Tech. Officer: GSFC/O W THIELE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7932 **UNIV OF WASHINGTON** **9503**
 THE COUNTERPARTS OF THE LUMINOUS, BURSTING X-RAY SOURCES IN GLOBULAR CLUSTERS - LTSA98
 01/04/1999 - 01/14/2002 FY01: \$49,033 Total: \$141,508
Prin. Invest.: S F ANDERSON
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8089 **UNIV OF WASHINGTON** **9504**
 SOLAR WIND/IONOSPHERIC COUPLING IN THE MASS LOADING OF THE MAGNETOSPHERE AND THE FORMATION OF THE GE
 01/28/1999 - 02/28/2002 FY01: \$81,870 Total: \$224,963
Prin. Invest.: R M WINGLEE
Tech. Officer: GSFC/J SHARBER
CASE Category: 11 - ASTRONOMY

NAG 5 8109 **UNIV OF WASHINGTON** **9505**
 AIRBORNE IN SITU MEASUREMENTS FOR TRMM VALIDATION STUDIES AT KWAJALEIN
 02/08/1999 - 02/14/2002 FY01: \$80,927 Total: \$690,698
Prin. Invest.: P V HOBBS
Tech. Officer: GSFC/R W LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 8164 **UNIV OF WASHINGTON** **9506**
 TOOLS TO PROBE THE OUTER COMETARY SYSTEM AND TO SIMULATE THE FORMATION AND EVOLUTION OF THE SOLAR
 02/08/1999 - 01/31/2002 FY01: \$163,200 Total: \$470,969
Prin. Invest.: G LAKE
Tech. Officer: GSFC/P HUNTER
CASE Category: 11 - ASTRONOMY

NAG 5 8296 **UNIV OF WASHINGTON** **9507**
 DYNAMICS AND THERMODYNAMICS OF THE NORTH PACIFIC OCEAN
 02/23/1999 - 02/28/2002 FY01: \$155,047 Total: \$456,973
Prin. Invest.: K KELLY
Tech. Officer: GSFC/E LINDSTROM
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8363 **UNIV OF WASHINGTON** **9508**
 VALIDATION OF THE LIDAR RETRIEVAL OF AEROSOL EXTINCTION
 03/15/1999 – 03/14/2001 FY01: \$0 Total: \$168,058
Prin. Invest.: D S COVERT
Tech. Officer: GSFC/M MISHCHENKO
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 8374 **UNIV OF WASHINGTON** **9509**
 ANALYSIS OF ASCA AND ROSAT OBSERVATIONS OF CATAclySMIC VARI-
 ABLES (ADP98)
 03/03/1999 – 03/14/2001 FY01: \$0 Total: \$20,000
Prin. Invest.: P SZKODY
Tech. Officer: GSFC/D K WEST
CASE Category: 11 – ASTRONOMY

NAG 5 8684 **UNIV OF WASHINGTON** **9510**
 INVESTIGATION OF THE RELATIONSHIPS BETWEEN AEROSOL PHYSICAL
 AND CHEMICAL PROPERTIES
 07/16/1999 – 07/14/2002 FY01: \$14,600 Total: \$43,841
Prin. Invest.: D A HEGG
Tech. Officer: GSFC/M I MISHCHENKO
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 8784 **UNIV OF WASHINGTON** **9511**
 MOTOR PROTEINS AS SHUTTLES FOR DIRECTED TRANSPORT IN
 SYNTHETIC MATRICES
 09/27/1999 – 01/31/2003 FY01: \$197,600 Total: \$477,605
Prin. Invest.: V VOGEL
Tech. Officer: GSFC/S DAVISON
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 8801 **UNIV OF WASHINGTON** **9512**
 "AIRCRAFT SUPPORT FOR SAFARI-2000"
 12/13/1999 – 12/14/2001 FY01: \$0 Total: \$582,932
Prin. Invest.: P V HOBBS
Tech. Officer: GSFC/M D KING
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 8966 **UNIV OF WASHINGTON** **9513**
 O VI EMISSION LINES IN HYADES F STARS – FUSE
 01/24/2000 – 01/31/2002 FY01: \$0 Total: \$33,400
Prin. Invest.: E H BOHM-VITENSE
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 – ASTRONOMY

NAG 5 8981 **UNIV OF WASHINGTON** **9514**
 THE ORIGIN OF PECULIAR UV LINE RATIOS IN MAGNETIC CATAclySMIC
 VARIABLES – FUSE
 01/24/2000 – 01/31/2002 FY01: \$0 Total: \$14,900
Prin. Invest.: P SZKODY
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 – ASTRONOMY

NAG 5 9022 **UNIV OF WASHINGTON** **9515**
 "UNIV OF WASHINGTON PARTICIPATION IN SAFARI- 2000"
 02/08/2000 – 02/14/2002 FY01: \$183,000 Total: \$467,176
Prin. Invest.: P V HOBBS
Tech. Officer: GSFC/M D KING
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 9086 **UNIV OF WASHINGTON** **9516**
 ENHANCING THE LASER-LUNAR RANGING TEST OF THE STRONG EQUIV-
 ALENCE PRINCIPLE
 02/17/2000 – 01/31/2002 FY01: \$40,000 Total: \$77,500
Prin. Invest.: J GUNDLACH
Tech. Officer: GSFC/P CRANE
CASE Category: 11 – ASTRONOMY

NAG 5 9250 **UNIV OF WASHINGTON** **9517**
 ION-F: A SPACE-BASED TESTBED FOR DISTRIBUTED FORMATION
 CONTROL USING THE DAWGSTAR NANOSAT
 03/17/2000 – 03/31/2002 FY01: \$40,000 Total: \$87,000
Prin. Invest.: M CAMPELL
Tech. Officer: GSFC/K LUU
CASE Category: 41 – AERONAUTICAL ENGR

NAG 5 9324 **UNIV OF WASHINGTON** **9518**
 NEXT GENERATION SPACE TELESCOPE (NGST) AD HOC SCIENCE
 WORKING GROUP (ASWG) ACTIVITY
 03/21/2000 – 03/14/2001 FY01: \$0 Total: \$22,779
Prin. Invest.: B MARGON
Tech. Officer: GSFC/E P SMITH
CASE Category: 42 – ASTRONAUTICAL ENGR

NAG 5 9334 **UNIV OF WASHINGTON** **9519**
 ROLE OF THE POLAR OCEANS IN GLOBAL CLIMATE
 06/19/2000 – 08/31/2002 FY01: \$310,000 Total: \$485,000
Prin. Invest.: D A ROTHROCK
Tech. Officer: GSFC/K PATRINGTON
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 9416 **UNIV OF WASHINGTON** **9520**
 UNDERSTANDING WATER, CLIMATE AND GLOBAL CHANGE: A GEWEX
 GLOBAL WATER AND ENERGY PATHFINDER DATA SET
 04/25/2000 – 04/30/2002 FY01: \$67,965 Total: \$111,665
Prin. Invest.: D LETTENMAIER
Tech. Officer: GSFC/J DODGE
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 9454 **UNIV OF WASHINGTON** **9521**
 TERRESTRIAL HYDROLOGY & CLIMATE STUDIES USING EOS- ERA DATA
 05/17/2000 – 04/14/2002 FY01: \$91,211 Total: \$154,023
Prin. Invest.: D LETTENMAIER
Tech. Officer: GSFC/P HOUSER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 5 9657 **UNIV OF WASHINGTON** **9522**
 RELATIONSHIP BETWEEN PRECIPITATING CONVECTION AND EASTERLY
 WAVE DYNAMICS IN THE WESTERN CENTRAL PACI
 06/22/2000 – 05/31/2002 FY01: \$91,000 Total: \$147,000
Prin. Invest.: C BRETHERTON
Tech. Officer: GSFC/R LAWRENCE
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 9668 **UNIV OF WASHINGTON** **9523**
 COMBINED USE OF TRMM SATELLITE GROUND-VALIDATION DATA TO MAP
 CONVECTIVE & STRATIFORM PRECIPITATION
 06/19/2000 – 11/30/2001 FY01: \$243,000 Total: \$290,070
Prin. Invest.: R A HOUZE
Prin. Invest.: NONE
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 11 – ASTRONOMY

NAG 5 9720 UNIV OF WASHINGTON 9524
 JOINT-PROBABILITY ANALYSIS OF THE NATURAL VARIABILITY OF TROPICAL OCEANIC PRECIPITATION
 06/21/2000 - 06/30/2002 FY01: \$164,000 Total: \$231,083
Prin. Invest.: S E YUTER
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9830 UNIV OF WASHINGTON 9525
 USE OF TRMM DATA TO EVALUATE BENEFITS OF POST-2002 GLOBAL PRECIPITATION MISSION FOR LAND SURFACE HYD
 08/23/2000 - 08/31/2002 FY01: \$62,000 Total: \$124,000
Prin. Invest.: D LETTENMAIER
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9835 UNIV OF WASHINGTON 9526
 MICROWAVE PASSIVE REMOTE SENSING OF SNOW: SCATTERING MODELS
 07/26/2000 - 09/14/2001 FY01: \$0 Total: \$44,104
Prin. Invest.: L TSANG
Tech. Officer: GSFC/A T CHANG
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9854 UNIV OF WASHINGTON 9527
 SEA ICE KINEMATICS & THICKNESS FROM RGPS: OBSERVATIONS & THEORY
 08/03/2000 - 09/30/2001 FY01: \$80,853 Total: \$197,355
Prin. Invest.: H STERN
Tech. Officer: GSFC/K PARTINGTON
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9906 UNIV OF WASHINGTON 9528
 ESTIMATION OF WEST ANTARCTIC MASS BALANCE USING ICESAT/GLAS
 09/08/2000 - 09/14/2002 FY01: \$44,197 Total: \$87,101
Prin. Invest.: C F RAYMOND
Tech. Officer: GSFC/J ZWALLY
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10092 UNIV OF WASHINGTON 9529
 USE OF RADARSAT DATA TO PREDICT THE EFFECTS OF LAKE & WETLAND STORAGE ON THE FLOW OF ARTIC RIVERS
 11/20/2000 - 11/30/2001 FY01: \$74,049 Total: \$74,049
Prin. Invest.: D LETTENMAIER
Tech. Officer: GSFC/K PARTINGTON
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10114 UNIV OF WASHINGTON 9530
 SURFACE WIND SPEED & FLUXES FROM SYNTHETIC APERTURE RADAR: VALIDATION & APPLICATION TO THE
 11/22/2000 - 11/30/2001 FY01: \$158,480 Total: \$158,480
Prin. Invest.: P MOURAD
Tech. Officer: GSFC/K PARTINGTON
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10225 UNIV OF WASHINGTON 9531
 ICE SHEETS SURFACE AND BED BOUNDARY CONDITIONS FROM REMOTE SENSING
 01/04/2001 - 01/14/2002 FY01: \$116,663 Total: \$116,663
Prin. Invest.: D WINEBRENNER
Tech. Officer: GSFC/W ABDALATI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10246 UNIV OF WASHINGTON 9532
 UNDERSTANDING THE ENIGMATIC SW SEX STARS (FUSE 00)
 02/12/2001 - 02/14/2002 FY01: \$46,000 Total: \$46,000
Prin. Invest.: P SZKODY
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 10342 UNIV OF WASHINGTON 9533
 MODELING CONTINENTAL SCALE EROSION IN MOUNTAINOUS REGIONS
 02/05/2001 - 01/31/2002 FY01: \$98,864 Total: \$98,864
Prin. Invest.: D R MONTGOMERY
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 10343 UNIV OF WASHINGTON 9534
 ACCRETION ONTO MAGNETIC WHITE DWARFS (FUSE 00)
 01/31/2001 - 01/31/2002 FY01: \$48,845 Total: \$48,845
Prin. Invest.: P SZKODY
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 10400 UNIV OF WASHINGTON 9535
 THE ORIGIN OF PECULIAR UV LINE RATIOS IN THE MAGNETIC CATAclysmic VARIABLE AE AQR (FUSE 2000)
 04/02/2001 - 05/31/2002 FY01: \$14,440 Total: \$14,440
Prin. Invest.: P SZKODY
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 10404 UNIV OF WASHINGTON 9536
 VALIDATION OF LIDAR RETRIEVAL OF AEROSOL EXTINCTION
 04/02/2001 - 03/31/2002 FY01: \$85,488 Total: \$85,488
Prin. Invest.: D S COVERT
Tech. Officer: GSFC/M I MISHCHENKO
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 10499 UNIV OF WASHINGTON 9537
 INTERPLANETARY DUST
 03/13/2001 - 03/14/2003 FY01: \$361,000 Total: \$361,000
Prin. Invest.: D E BROWNLEE
Tech. Officer: GSFC/J M BOYCE
CASE Category: 12 - CHEMISTRY

NAG 5 10570 UNIV OF WASHINGTON 9538
 NUMERICAL CALCULATION OF THE MAGNETIC FIELDS GENERATED BY OCEAN TIDES & THEIR COMPARISON WITH SATELLITE
 03/13/2001 - 03/14/2002 FY01: \$80,000 Total: \$80,000
Prin. Invest.: R TYLER
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10621 UNIV OF WASHINGTON 9539
 LAGRANGIAN ASSIMILATION OF SATELLITE DATA FOR CLIMATE STUDIES
 03/19/2001 - 03/31/2002 FY01: \$79,269 Total: \$79,269
Prin. Invest.: R LINDSAY
Tech. Officer: GSFC/W ABDALATI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10624 **UNIV OF WASHINGTON** **9540**
 CLIMATE PROCESSES OVER THE OCEANS
 03/20/2001 – 03/31/2002 FY01: \$596,979 Total: \$596,979
Prin. Invest.: D L HARTMANN
Tech. Officer: GSFC/A ANDERSON
CASE Category: 33 – OCEANOGRAPHY

NAG 5 10745 **UNIV OF WASHINGTON** **9541**
 "UNIV OF WASHINGTON AIRBORNE STUDIES IN SUPP ORT OF THE
 CLAMS-2001 FIELD STUDY"
 04/17/2001 – 02/28/2002 FY01: \$384,511 Total: \$384,511
Prin. Invest.: P V HOBBS
Tech. Officer: GSFC/M D KING
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 10903 **UNIV OF WASHINGTON** **9542**
 A KINETIC STUDY OF PARTICLE ACCELERATION IN MAGNET OSPHERIC
 CURRENT SHEETS & COMPARISON WITH OBSEVAT
 05/08/2001 – 05/14/2002 FY01: \$87,737 Total: \$87,737
Prin. Invest.: M J BRITTNACHER
Tech. Officer: GSFC/J F SPANN
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 10962 **UNIV OF WASHINGTON** **9543**
 MODELING IONOSPHERIC OUTFLOW IN GEOPHYSICALLY RELEVANT
 COORDINATE SYSTEMS
 05/23/2001 – 05/31/2002 FY01: \$68,222 Total: \$68,222
Prin. Invest.: R M WINGLEE
Tech. Officer: GSFC/J SPANN
CASE Category: 11 – ASTRONOMY

NAG 5 11057 **UNIV OF WASHINGTON** **9544**
 MULTISENSOR ASSESSMENT OF ARCTIC POLYNYA VARIA- BILITY & ITS
 ASSOCIATION WITH LARGE-SCALECHANGE
 06/22/2001 – 06/30/2002 FY01: \$46,515 Total: \$46,515
Prin. Invest.: S MARTIN
Tech. Officer: GSFC/W ABDALATI
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 5 11079 **UNIV OF WASHINGTON** **9545**
 A ONE-YEAR PILOT STUDY FOR THE INCLUSION OF ACTIVE OPTICAL
 SENSORS INTO PALACE FLOATS
 08/06/2001 – 08/14/2002 FY01: \$56,557 Total: \$56,557
Prin. Invest.: S RISER
Tech. Officer: GSFC/J MARRA
CASE Category: 33 – OCEANOGRAPHY

NAG 7 99001 **UNIV OF WASHINGTON** **9546**
 GRANT FOR PI OF THE STARDUST PROGRAM (PHASE E)
 05/21/1999 – 06/30/2004 FY01: \$0 Total: \$183,221
Prin. Invest.: D E BROWNLEE
Tech. Officer: HQ/M DAHL
CASE Category: 11 – ASTRONOMY

NAG 8 1424 **UNIV OF WASHINGTON** **9547**
 R/S IMPROVING OCEANIC STORM FORECASTING AND ANALYSIS THROUGH
 ASSIMILATION OF REMOTE SENSING
 01/13/1998 – 12/31/2001 FY01: -\$300 Total: \$340,596
Prin. Invest.: R A BROWN
Tech. Officer: MSFC/J M SIMONDS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 8 1512 **UNIV OF WASHINGTON** **9548**
 WATER TRANSPORT TO THE UPPER TROPOSPHERE BY CONVECTIVE
 SYSTEMS, AS INFERRED FROM GLOBAL
 04/06/1998 – 04/05/2002 FY01: \$0 Total: \$126,560
Prin. Invest.: M BAKER
Tech. Officer: MSFC/J R BLOCKER
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NAG 8 1647 **UNIV OF WASHINGTON** **9549**
 POLLUTION AND LIGHTNING
 10/15/1999 – 09/30/2002 FY01: \$0 Total: \$95,177
Prin. Invest.: M B BAKER
Tech. Officer: MSFC/D SAMUELSON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAG 8 1756 **UNIV OF WASHINGTON** **9550**
 FEASIBILITY STUDY FOR A SPACE-BASED TEST OF THE STRONG EQUIV-
 ALENCE PRINCIPLE USING LUNAR RANGING.
 04/23/2001 – 02/01/2006 FY01: \$120,000 Total: \$120,000
Prin. Invest.: E G ADELBERGER, K NORDVEDT, C STUBBS
Tech. Officer: MSFC/D HUBBARD
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1776 **UNIV OF WASHINGTON** **9551**
 ULTRHIGH RESOLUTION OPTICAL FREQUENCY STANDARD USI NG
 INDIVIDUAL INDIUM IONS
 04/20/2001 – 02/01/2004 FY01: \$80,000 Total: \$80,000
Prin. Invest.: W NAGOURNEY
Tech. Officer: MSFC/D HUBBARD
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1849 **UNIV OF WASHINGTON** **9552**
 FRC ACCELERATION SPACE THRUSTER (FAST)
 08/30/2001 – 11/30/2001 FY01: \$9,273 Total: \$9,273
Prin. Invest.: J SLOUGH
Tech. Officer: MSFC/A MARTIN, MSFC/F THIO
CASE Category: 41 – AERONAUTICAL ENGR

NAG 9 1258 **UNIV OF WASHINGTON** **9553**
 VISUAL ANATOMIC GUIDANCE TO FACILITATE ULTRASOUND IMAGE
 ACQUISITION
 09/07/2000 – 08/31/2001 FY01: \$169,943 Total: \$203,932
Prin. Invest.: F H SHEEHAN, NONE
Tech. Officer: JSC/C W LLOYD
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 9 1271 **UNIV OF WASHINGTON** **9554**
 DNA MICROCHIP BASED MICROBIAL MONITORING
 12/08/2000 – 11/30/2002 FY01: \$260,856 Total: \$260,856
Prin. Invest.: D STAHL
Tech. Officer: JSC/D L JAN
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 9 1343 **UNIV OF WASHINGTON** **9555**
 MICROARRAYS OF CELLULAR MEMBRANE PATCHES FOR INFL IGH
 T STUDIES OF ION CHANNEL FUNCTION
 08/01/2001 – 09/30/2004 FY01: \$54,000 Total: \$54,000
Prin. Invest.: A FOLCH
Tech. Officer: JSC/D RISIN
CASE Category: 43 – CHEMICAL ENGR

NAS 1 18940 **UNIV OF WASHINGTON** **9556**
 SAGE III SCIENCE INVESTIGATION SUPPORT, P.I. PETER V. HOBBS
 10/27/1989 – 01/31/2005 FY01: \$26,147 Total: \$428,027
Prin. Invest.: P V HOBBS
Tech. Officer: LARC/G MADDREA
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAS 1 99105 **UNIV OF WASHINGTON** **9557**
 COUPLING PICASSO-CENA TO IN SITU MEASUREMENTS FOR ESTIMATION
 OF DIRECT AEROSOL RADIATIVE FORCING
 05/17/1999 – 05/16/2002 FY01: \$95,000 Total: \$153,650
Prin. Invest.: R J CHARLSON *Prin. Invest.:* NONE
Tech. Officer: LARC/G GIBSON
CASE Category: 31 – ATMOSPHERIC SCIENCE

NAS 5 00212 **UNIV OF WASHINGTON** **9558**
 MATLAB-BASED ADAPTIVE COMPUTING FOR NASA IMAGE
 09/29/2000 – 09/28/2002 FY01: \$227,273 Total: \$227,273
Prin. Invest.: S HAUCK
Tech. Officer: GSFC/J STEPHENS
CASE Category: 22 – COMPUTER SCIENCE

NAS 5 00213 **UNIV OF WASHINGTON** **9559**
 RECONFIGURABLE COMPUTING BASED COMPRESSION FOR SPACEBORNE
 HYPERSPECTRAL IMAGES.
 09/29/2000 – 09/28/2002 FY01: \$187,143 Total: \$187,143
Prin. Invest.: S HAUCK
Tech. Officer: GSFC/J STEPHENS
CASE Category: 22 – COMPUTER SCIENCE

NAS 5 30613 **UNIV OF WASHINGTON** **9560**
 INVESTIGATION DEFINITION PHASE FOR CLUSTER PLASMA SPEC-
 TROMETRY
 02/21/1989 – 02/09/2001 FY01: \$5 Total: \$5,175,503
Prin. Invest.: G K PARKS
Tech. Officer: GSFC/J L CHRISTENSEN
CASE Category: 13 – PHYSICS

NAS 5 31372 **UNIV OF WASHINGTON** **9561**
 INTERMEDIATE THERMAL INFRARED RADIOMETER (EOS INVESTIGATION)
 02/19/1992 – 12/14/2001 FY01: \$418,503 Total: \$3,484,852
Prin. Invest.: A R GILLESPIE
Tech. Officer: GSFC/H BLODGET
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 1 402 **UNIV OF WASHINGTON** **9562**
 REMOTE & IN-SITU MEASUREMENT OF AEROSOL OPTICAL PROPERTIES IN
 THE BOUNDARY LAYER
 07/24/2000 – 09/14/2003 FY01: -\$20,000 Total: \$3,200
Prin. Invest.: T L COVERT, T L ANDERSON
Tech. Officer: LARC/C A HOSTETLER
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 1273 **UNIV OF WASHINGTON** **9563**
 HABITABLE PLANETS AND EVOLUTION OF BIOLOGICAL COMPLEXITY
 07/20/2001 – 06/30/2002 FY01: \$575,000 Total: \$575,000
Prin. Invest.: P D WARD, J T STALEY, D A KRING
Tech. Officer: ARC/R A GRAYMES, ARC/W W DOLCI
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NCC 2 5463 **UNIV OF WASHINGTON** **9564**
 MATHEMATICAL MODELING OF METABOLIC NETWORKS AND ALGORIT-
 HMIC DEVELOPMENT FOR HIGH-THROUGHPUT MULTID
 09/14/2001 – 09/14/2002 FY01: \$29,994 Total: \$29,994
Prin. Invest.: H QIAN
Tech. Officer: ARC/S LIANG, ARC/B A BIEGEL
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NCC 5 326 **UNIV OF WASHINGTON** **9565**
 SUPPORT OF THE UNIV OF WASHINGTON'S RESEARCH AIRCRAFT FOR
 NASA STUDIES (PROPOSAL #111017)
 03/23/1998 – 02/28/2002 FY01: \$0 Total: \$934,204
Prin. Invest.: P V HOBBS
Tech. Officer: GSFC/M D KING
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 5 345 **UNIV OF WASHINGTON** **9566**
 BIOGEOCHEMICAL DYNAMICS IN RIVER CORRIDORS OF THE AMAZON
 BASIN AND THEIR RESPONSE TO ANTHROPOGENIC C
 06/25/1998 – 12/31/2001 FY01: \$193,552 Total: \$537,352
Prin. Invest.: J E RICHEY
Tech. Officer: GSFC/D W DEERING
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 5 363 **UNIV OF WASHINGTON** **9567**
 TWO-HANDED INTERFACE IMPROVEMENTS FOR THE STEREO SCOPIC
 ANALYZER
 09/22/1998 – 09/30/2000 FY01: \$0 Total: \$81,830
Prin. Invest.: T FURNESS
Tech. Officer: GSFC/A ROBERTS
CASE Category: 22 – COMPUTER SCIENCE

NCC 5 550 **UNIV OF WASHINGTON** **9568**
 SUPPORT OF THE UNIV OF WASHINGTON'S RESEARCH AIRCRAFT FOR
 NASA STUDIES
 05/11/2001 – 04/30/2002 FY01: \$340,214 Total: \$340,214
Prin. Invest.: P HOBBS
Tech. Officer: GSFC/C YUHAS
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NCC 5 584 **UNIV OF WASHINGTON** **9569**
 MICROWAVE REMOTE SENSING OF FROZEN PRECIPITATION
 08/23/2001 – 08/31/2004 FY01: \$36,000 Total: \$36,000
Prin. Invest.: R HOUZE
Tech. Officer: GSFC/J A WEINMAN
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NCC 8 231 **UNIV OF WASHINGTON** **9570**
 MINI-MAGNETOSPHERIC PLASMA PROPULSION-RADIATION SHIELDING
 (M2PS-S)
 09/05/2001 – 12/31/2002 FY01: \$86,311 Total: \$86,311
Prin. Invest.: R M WINGLEE
Tech. Officer: MSFC/J H ADAMS
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 9 56 **UNIV OF WASHINGTON** **9571**
 RESEARCH GRANT
 02/22/2000 – 01/15/2002 FY01: \$37,955 Total: \$48,392
Prin. Invest.: D E PARKER
Tech. Officer: JSC/D HARM, JSC/J J BLOOMBERG
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 2 52219 UNIV OF WASHINGTON 9572
 INFRARED STUDY OF HERBIG AE/BE SYSTEMS
 08/19/1996 - 08/31/2002 FY01: \$0 Total: \$76,000
Prin. Invest.: D BROWNLEE
Tech. Officer: ARC/D H WOODEN, ARC/F C WITTEBORN
CASE Category: 11 - ASTRONOMY

NGT 2 52281 UNIV OF WASHINGTON 9573
 A PRESSURE SENSITIVE PAINT FOR THE STUDY OF UNSTEADY FLOWS
 OVER FLEXIBLE BOUNDARIES
 07/27/2001 - 08/31/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: J B CALLIS
Tech. Officer: ARC/J H BELL, ARC/E S SCHAIRER
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NGT 5 66 UNIV OF WASHINGTON 9574
 COMPUTATIONAL OPTICS YEAR 1 OF 2 YEAR COMMITMENT PERIOD OF
 PERFORMANCE SEPT. 1, 1998 TO AUG. 31, 1
 05/27/1998 - 08/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: J BURKE
Tech. Officer: GSFC/G SOFFEN
CASE Category: 21 - MATHEMATICS

NGT 5 98 UNIV OF WASHINGTON 9575
 A NEW MECHANISM FOR DEGASSING AT HIGH-SULFUR VOLCANOES
 08/23/1999 - 08/31/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: C NEWHALL
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 126 UNIV OF WASHINGTON 9576
 SIMULATING GALAXY GROUPS. STUDENT: DARREN S. REED
 06/11/2001 - 06/30/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: T QUINN
Tech. Officer: GSFC/M S BURRELL
CASE Category: 29 - MATH/COMPUTER SCI, OTHER

NGT 5 30120 UNIV OF WASHINGTON 9577
 PREDICTING LAND SURFACE FLUXES OF FRESH WATER TO THE ARCTIC
 OCEAN ESSF RECIPIENT: SANTIAGO GASSO
 10/01/1997 - 08/31/2000 FY01: -\$9 Total: \$65,991
Prin. Invest.: D LETTENMAIER
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30121 UNIV OF WASHINGTON 9578
 ASSESSING THE GLOBAL CHARACTERISTICS OF AEROSOLS: WHAT IS THE
 INFLUENCE OF HUMIDITY IN COLUMNAR AERO
 10/01/1997 - 03/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: D HEGG
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30149 UNIV OF WASHINGTON 9579
 COMBINED USE OF REMOTE SENSING AND BIOGEOCHEMICAL MODELING
 TO ESTIMATE PRIMARY PRODUCTION AND CARBO
 08/28/1998 - 08/31/2001 FY01: \$0 Total: \$55,000
Prin. Invest.: J E RICHEY, WILHELM
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30157 UNIV OF WASHINGTON 9580
 MODELING THE FLAMMABILITY OF BRAZILIAN AMAZON FORESTS AT THE
 FOREST-SAVANNA ECOTONE
 08/28/1998 - 08/31/2001 FY01: \$0 Total: \$44,000
Prin. Invest.: T M HINCKLEY
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30161 UNIV OF WASHINGTON 9581
 COUPLING LAND-SURFACE AND RIVERINE WATER AND CARBON CYCLES
 IN THE AMAZON BASIN: DEVELOPMENT OF A MODEL
 08/31/1998 - 08/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: J E RICHEY, MAYORGA
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30195 UNIV OF WASHINGTON 9582
 THE ARCTIC OSCILLATION SIGNATURE IN NORTHERN HEMISPHERE
 CLIMATE
 08/18/1999 - 12/31/2000 FY01: \$0 Total: \$23,727
Prin. Invest.: J M WALLACE
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30213 UNIV OF WASHINGTON 9583
 IMPROVING MODEL PARAMETERIZATIONS OF GAS EXCHANGE: QUANTI-
 FICATION OF BUBBLE DYNAMICS BY MEASUREMENT
 08/20/1999 - 08/31/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: S R EMERSON
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30220 UNIV OF WASHINGTON 9584
 OPPORTUNITIES FOR IMPROVING WESTERN WATER MANAGEMENT
 THROUGH REMOTE SENSING & HYDROLOGIC MODEL
 08/24/1999 - 08/31/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: D P LETTENMAIER
Prin. Invest.: NONE
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30343 UNIV OF WASHINGTON 9585
 TROPICAL FOREST PHENOLOGY ACROSS ENVIRONMENTAL GRADIENTS
 IN PANAMA: A MULTISCALE STUDY USING RE
 08/21/2000 - 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: T HINCKLEY
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30378 UNIV OF WASHINGTON 9586
 TRMM-OBSERVED STARTIFORM PRECIPITATION FRACTION RELATED TO
 LARGE-SCALE TROPICAL CIRCULATION/COURT
 08/13/2001 - 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: R HOUZE, JR
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40017 **UNIV OF WASHINGTON** **9587**
 TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE
 AND FELLOWSHIP PROGRAM.
 12/19/1996 – 01/31/2001 FY01: \$0 Total: \$1,664,616
Prin. Invest.: G K PARKS
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 40084 **UNIV OF WASHINGTON** **9588**
 WASHINGTON SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
 02/09/2001 – 01/31/2002 FY01: \$447,050 Total: \$447,050
Prin. Invest.: J DECOSMO
Tech. Officer: GSFC/D D DETROYE
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 50078 **UNIV OF WASHINGTON** **9589**
 NUMERICAL SIMULATION OF DAMPED LYMAN-ALPHA SYSTEMS
 08/26/1997 – 12/30/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: G LAKE
Tech. Officer: GSFC/A NURRIDIN
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 50285 **UNIV OF WASHINGTON** **9590**
 THREE DIMENTIONAL SIMULATIONS OF THE SOLAR WIND INTERACTION
 WITH MAGNETIC ANOMALIES ON THE SURFACE
 06/23/2000 – 08/31/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: R WINGLEE
Tech. Officer: GSFC/L SMITH
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 50298 **UNIV OF WASHINGTON** **9591**
 CALCULATION OF THE MERGER PHASE OF BINARY BLACK HOLES USING
 NUMERICAL RELATIVITY/STUDENT LUISA BU
 06/28/2000 – 06/30/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: J BARDEEN
Tech. Officer: GSFC/K BLANDING
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 50299 **UNIV OF WASHINGTON** **9592**
 AN EMPIRICAL MEASURE OF GALAXY EVOLUTION IN CLUSTERS
 06/28/2000 – 06/30/2002 FY01: \$22,000 Total: \$44,000
Prin. Invest.: J DALCANTON
Tech. Officer: GSFC/L SMITH
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NGT 5 50334 **UNIV OF WASHINGTON** **9593**
 DETERMINING THE EFFECTS OF CLOUDS & SEA ICE ON THE EARTH RADI-
 ATION BUDGET IN THE SOUTHERNOCEAN
 08/17/2000 – 08/31/2001 FY01: \$22,000 Total: \$44,000
Prin. Invest.: S WARREN
Tech. Officer: GSFC/M WEI
CASE Category: 39 – ENVIRONMENTAL SCI, OTHER

NGT 8 52862 **UNIV OF WASHINGTON** **9594**
 MODELING OF ELECTRICAL EFFECTS ON THE DYNAMICS OF SOLIDIFICA-
 TION
 07/27/1998 – 08/13/2000 FY01: \$0 Total: \$22,000
Prin. Invest.: L N BRUSH
Tech. Officer: MSFC/J F DOWDY
CASE Category: 47 – METAL & MATERIALS ENGR

NAG 2 1198 **WASHINGTON STATE UNIV** **9595**
 LIGNIFICATION: A NEW PARADIGM
 04/02/1998 – 05/31/2002 FY01: \$0 Total: \$375,000
Prin. Invest.: N G LEWIS
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 54 – ENVIRONMENTAL BIOLOGY

NAG 2 1513 **WASHINGTON STATE UNIV** **9596**
 DETERMINING THE COMPLEX ORGAIZATIONAL NATURE OF PH ENOLIC
 RADICAL-RADICAL COUPLING IN VASCULAR PLANT
 08/17/2001 – 07/14/2002 FY01: \$64,999 Total: \$64,999
Prin. Invest.: N G LEWIS
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NAG 3 2114 **WASHINGTON STATE UNIV** **9597**
 SINGLE BUBBLE SONOLUMINESCENCE IN LOW GRAVITY AND OPTICAL
 RADIATION PRESSURE POSITIONING OF THE BUBB
 02/24/1998 – 09/30/2000 FY01: \$0 Total: \$130,000
Prin. Invest.: P L MARSTON, W E TORRUELLAS
Tech. Officer: GRC/N R HALL
CASE Category: 13 – PHYSICS

NAG 3 2378 **WASHINGTON STATE UNIV** **9598**
 PASSIVE AND ACTIVE STABILIZATION OF LIQUID BRIDGES IN LOW
 GRAVITY
 04/04/2000 – 03/09/2004 FY01: \$155,612 Total: \$255,612
Prin. Invest.: D MARSTON
Tech. Officer: GRC/C NIEDERHAUS
CASE Category: 49 – ENGINEERING, OTHER

NAG 5 4035 **WASHINGTON STATE UNIV** **9599**
 RECONSTRUCTION OF THREE-DIMENSIONAL SHAPE AND SPIN FROM
 RADAR DATA
 02/27/1997 – 03/31/2001 FY01: \$0 Total: \$173,975
Prin. Invest.: D HUDSON
Tech. Officer: GSFC/J G GRANT
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 4841 **WASHINGTON STATE UNIV** **9600**
 CALCIUM/CALMODULIN-MEDIATED GRAVITROPIC RESPONSE I
 06/19/1997 – 09/15/2001 FY01: \$0 Total: \$497,400
Prin. Invest.: B POOVAIAH
Tech. Officer: GSFC/M AVERNER
CASE Category: 59 – LIFE SCIENCE, OTHER

NAG 5 9345 **WASHINGTON STATE UNIV** **9601**
 ACCRETION OF INTERPLANETARY DUST: A NEW RECORD FROM 3-HE IN
 POLAR ICE CORES
 03/30/2000 – 03/31/2002 FY01: \$30,000 Total: \$60,000
Prin. Invest.: E BROOK
Tech. Officer: GSFC/J BOYCE
CASE Category: 11 – ASTRONOMY

NAG 5 10462 **WASHINGTON STATE UNIV** **9602**
 PHYSICAL MODELING OF ASTEROIDS USING RADAR & OPICAL DATA
 02/26/2001 – 03/31/2002 FY01: \$45,000 Total: \$45,000
Prin. Invest.: D HUDSON
Tech. Officer: GSFC/D SENSKE
CASE Category: 32 – GEOLOGICAL SCIENCE

NAG 5 10637 **WASHINGTON STATE UNIV** **9603**
 USING SATELLITE OBSERVATIONS TO QUANTIFY BIOMASS BURNING EMISSIONS OF NOX & HYDROCARBONS IN THE
 03/19/2001 – 03/14/2002 FY01: \$83,167 Total: \$83,167
Prin. Invest.: L JAEGLE
Tech. Officer: GSFC/M WEI
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 5 11364 **WASHINGTON STATE UNIV** **9604**
 CALCIUM/CALMODULIN MEDIATED GRAVITROPIC RESPONSE IN PLANTS
 09/27/2001 – 09/30/2002 FY01: \$163,806 Total: \$163,806
Prin. Invest.: B W POOVAIAH
Tech. Officer: GSFC/M AVERNER
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 8 1477 **WASHINGTON STATE UNIV** **9605**
 R/S A COMPARATIVE MODELING STUDY OF MAGNETIC AND ELECTROSTATIC LEVITATION IN MICROGRAVITY
 03/26/1998 – 01/31/2003 FY01: \$0 Total: \$254,167
Prin. Invest.: B Q LI
Tech. Officer: MSFC/C TALLEY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAG 8 1693 **WASHINGTON STATE UNIV** **9606**
 R/S "STUDY OF MAGNETIC FIELD EFFECTS ON CONVECTION AND SOLIDIFICATION IN NORMAL AND MICROGRAVITY"
 06/02/2000 – 11/30/2003 FY01: \$0 Total: \$45,000
Prin. Invest.: B Q LI
Tech. Officer: MSFC/P M DOTY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NAS 5 00177 **WASHINGTON STATE UNIV** **9607**
 PARTICIPATION IN THE OZONE MONITORING INSTRUMENT SCIENCE TEAM
 06/09/2000 – 10/31/2004 FY01: \$68,217 Total: \$118,217
Prin. Invest.: G MOUNT
Tech. Officer: GSFC/J C RIVERA
CASE Category: 31 – ATMOSPHERIC SCIENCE

NCC 2 5346 **WASHINGTON STATE UNIV** **9608**
 LOW-POWER FAST SOI ELECTRONICS FOR SPACE APPLICATIONS
 08/22/1999 – 07/31/2001 FY01: \$0 Total: \$49,100
Prin. Invest.: M A OSMAN
Tech. Officer: ARC/B A BIEGEL, ARC/T R GOVINDAN
CASE Category: 29 – MATH/COMPUTER SCI, OTHER

NCC 2 5407 **WASHINGTON STATE UNIV** **9609**
 TRANSPORT IN MOLECULAR STRUCTURES
 10/30/2000 – 12/31/2001 FY01: \$60,910 Total: \$60,910
Prin. Invest.: M A OSMAN
Tech. Officer: ARC/N HALL
CASE Category: 13 – PHYSICS

NCC 8 92 **WASHINGTON STATE UNIV** **9610**
 "STUDY OF MAGNETIC DUMPING EFFECT ON CONVECTION & SOLIDIFICATION UNDER G-JITTER CONDITIONS"
 04/19/1996 – 04/21/2001 FY01: \$0 Total: \$360,000
Prin. Invest.: B Q LI
Tech. Officer: MSFC/C R TALLEY
CASE Category: 19 – PHYSICAL SCIENCE, OTHER

NGT 3 52330 **WASHINGTON STATE UNIV** **9611**
 GRADUATE STUDENT RESEARCHERS PROGRAM
 06/10/1997 – 08/15/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: P MARSTON
Tech. Officer: GRC/F J MONTEGANI
CASE Category: 13 – PHYSICS

NAG 5 8248 **WHITMAN COLLEGE** **9612**
 ORFEUS IMAPS MISSION SUPPORT
 03/09/1999 – 09/30/2000 FY01: \$0 Total: \$31,299
Prin. Invest.: U J SOFIA
Tech. Officer: GSFC/R POLIDAN
CASE Category: 11 – ASTRONOMY

NAG 5 8249 **WHITMAN COLLEGE** **9613**
 THE PROPERTIES OF INTERSTELLAR DUST & APPLICATIONS TO ASTROPHYSICAL PROBLEMS
 03/09/1999 – 09/30/2000 FY01: \$0 Total: \$25,500
Prin. Invest.: U SOFIA
Tech. Officer: GSFC/D WEST
CASE Category: 11 – ASTRONOMY

NAG 5 9249 **WHITMAN COLLEGE** **9614**
 FUV EXTINCTION: UNIQUE INSIGHTS INTO THE NATURE & ROLE OF SMALL DUST GRAINS – FUSE
 03/16/2000 – 03/14/2002 FY01: \$0 Total: \$21,954
Prin. Invest.: U SOFIA
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 – ASTRONOMY

NAG 3 2510 **WHITWORTH COLLEGE** **9615**
 DEVELOPMENT OF A METHOD TO SPECTROSCOPICALLY ANALYZE CARBON GRID EROSION IN ION THRUSTERS
 12/07/2000 – 12/31/2001 FY01: \$15,924 Total: \$15,924
Prin. Invest.: D STEVENS
Tech. Officer: GRC/D DOMOMKOS
CASE Category: 13 – PHYSICS

WEST VIRGINIA

NAG 5 11072 **BLUEFIELD STATE COLLEGE** **9616**
 EMERGIN LEADER'S INST
 07/06/2001 – 07/14/2002 FY01: \$100,000 Total: \$100,000
Prin. Invest.: F WOOTEN BLANKS
Tech. Officer: GSFC/M MATHEWS
CASE Category: 99 – MULTI INTERDISCIPL, OTHER

NAG 2 1194 **MARSHALL UNIV** **9617**
 CALBINDINS & APOPTOSIS AFTERSHORT TERM SPACE FLIGHT
 03/25/1998 – 05/31/2001 FY01: \$0 Total: \$103,026
Prin. Invest.: W B RHOTEN, I N SERGEEV
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 – BIOLOGY (EXCLUDING ENVIR)

NCC 5 542 **MARSHALL UNIV** **9618**
 RCBI ADVANCED COMPOSITES TECHNOLOGY INITIATIVE
 03/20/2001 – 03/31/2002 FY01: \$2,300,000 Total: \$2,300,000
Prin. Invest.: M R JULIAN
Tech. Officer: GSFC/M KIENLEN
CASE Category: 49 – ENGINEERING, OTHER

NGT 9 24 UNIV OF CHARLESTON -WEST VIRGINIA 9619
 GRADUATE STUDENT RESEARCH PROGRAM
 06/02/1997 - 06/30/2000 FY01: -\$14,851 Total: \$29,149
Prin. Invest.: C COOMBS, J NETTLES
Tech. Officer: JSC/D A MORRISON
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 11088 WEST VIRGINIA STATE COLLEGE 9620
 APPLICATION OF NASA'S REMOTE SENSING SATELLITES TO ENVIRON-
 MENTAL RESEARCH AND EARTH SCIENCE EDUCATIO
 07/25/2001 - 06/30/2002 FY01: \$70,000 Total: \$70,000
Prin. Invest.: J MAYHUGH
Tech. Officer: GSFC/M MATHEWS
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 11103 WEST VIRGINIA STATE COLLEGE 9621
 NASA SCIENCE AND TECHNOLOGY SCHOLAR PROGRAM
 07/31/2001 - 07/31/2002 FY01: \$30,000 Total: \$30,000
Prin. Invest.: E V GRIFFIN, SR
Tech. Officer: GSFC/M MATHEWS
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 1 2096 WEST VIRGINIA UNIV 9622
 ROLE OF TURBULENCE IN CHEMICAL AND DYNAMICAL PROCESSES IN THE
 NEAR-FIELD WAKE OF SUBSONICAIRC
 09/14/1998 - 12/15/2001 FY01: \$102,570 Total: \$299,190
Prin. Invest.: R F TURCO, W S LEWELLEN
Tech. Officer: LARC/W L GROSE, LARC/B E ANDERSON
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 2132 WEST VIRGINIA UNIV 9623
 INVESTIGATION OF POINT DOPPLER VELOCIMETRY (PDV) FOR TRAN-
 SITION DETECTION IN BOUNDARY LAYERS
 01/15/1999 - 01/12/2000 FY01: -\$89 Total: \$47,558
Prin. Invest.: J M KUHLMAN
Tech. Officer: LARC/J F MEYERS
CASE Category: 41 - AERONAUTICAL ENGR

NAG 2 1158 WEST VIRGINIA UNIV 9624
 AIRNET REMOTELY CONTROLLED B747 SCAL MODEL; TRANS FR AMES
 10/2000; GSFC STARTS SUPP 2
 08/25/1997 - 01/31/2001 FY01: \$0 Total: \$150,000
Prin. Invest.: M R NAPOLITANO
Tech. Officer: ARC/W F BROOKS
CASE Category: 41 - AERONAUTICAL ENGR

NAG 5 6468 WEST VIRGINIA UNIV 9625
 INVESTIGATION OF THE ENERGY BALANCE OF SOLAR WIND ELECTRONS:
 ULYSSES OBSERVATIONS
 11/13/1997 - 01/31/2001 FY01: \$0 Total: \$113,529
Prin. Invest.: E SCIME
Tech. Officer: GSFC/J LING
CASE Category: 11 - ASTRONOMY

NAG 5 10218 WEST VIRGINIA UNIV 9626
 LABORATORY MEASUREMENTS OF BROADBAND EXTREMELY-LOW -
 FREQUENCY(BB-ELF) WAVE EXCITATION THRESHOLDS &
 01/05/2001 - 01/14/2002 FY01: \$98,769 Total: \$98,769
Prin. Invest.: M KOEPKE
Tech. Officer: GSFC/M MELLOTT
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1494 WEST VIRGINIA UNIV 9627
 MARS ENVIRONMENTAL COMPATIBILITY ASSESSMENT
 06/11/1998 - 05/31/2002 FY01: \$50,000 Total: \$243,541
Prin. Invest.: T MELOY
Tech. Officer: MSFC/J POE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 8 1496 WEST VIRGINIA UNIV 9628
 TECHNOLOGY EDUCATION BIOTECHNOLOGY CURRICULUM (TBEC)
 09/23/1998 - 08/31/2000 FY01: -\$863 Total: \$93,817
Prin. Invest.: J G WELLS
Tech. Officer: MSFC/D LONGEDDY
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 2 979 WEST VIRGINIA UNIV 9629
 APPLIED RESEARCH IN SOFTWARE VERIF & VALIDATION TRANS. FROM
 ARC 10/1/00 START MOD 21 HERE
 02/27/1997 - 02/28/2002 FY01: \$1,909,964 Total: \$11,843,674
Prin. Invest.: A C COGLEY, J SHAUB, S M EASTERBROOK
Tech. Officer: ARC/D S OSBURN
CASE Category: 29 - MATH/COMPUTER SCI, OTHER

NCC 2 6043 WEST VIRGINIA UNIV 9630
 NASA AMES FACILITY EDUCATION OUTREACH PROGRAM
 05/10/2000 - 10/31/2000 FY01: \$147,692 Total: \$227,054
Prin. Invest.: K DAVIS, E PULE
Tech. Officer: ARC/D OZBURN, ARC/S YASSINI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 406 WEST VIRGINIA UNIV 9631
 NASA EPSCOR: PREPARATORY GRANT PROPOSAL
 05/17/1999 - 06/30/2001 FY01: \$0 Total: \$450,000
Prin. Invest.: M JARAIEDI
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 570 WEST VIRGINIA UNIV 9632
 WEST VIRGINIA NASA EPSCOR PROGRAM
 07/13/2001 - 07/31/2002 FY01: \$291,600 Total: \$291,600
Prin. Invest.: M JARAIEDI
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40055 WEST VIRGINIA UNIV 9633
 TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE
 AND FELLOWSHIP PROGRAM.
 02/12/1997 - 02/28/2001 FY01: -\$1,584 Total: \$972,166
Prin. Invest.: M JARAIEDI
Tech. Officer: GSFC/L KEFFER
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40120 WEST VIRGINIA UNIV 9634
 WEST VIRGINIA SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
 03/14/2001 - 02/28/2002 FY01: \$257,834 Total: \$257,834
Prin. Invest.: M JARAIEDI
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50009 WEST VIRGINIA UNIV 9635
 ASSESSING THE CONSEQUENCES OF OZONE DEPLETION ON EFFECTS OF
 ULTRAVIOLET-B RADIATION ON PLANT LITER Q
 02/10/1997 - 08/31/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: W T PETERJOHN
Tech. Officer: GSFC/A NURRIDIN
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NGT 5 50103 WEST VIRGINIA UNIV 9636
 DEBRIS SLIDE HAZARDS IN THE CENTRAL APPALACHIANS: CONTROLLING
 FACTORS VIA LARGE SCALE SURFICIAL MAPP
 09/06/1997 - 08/31/2000 FY01: \$0 Total: \$44,000
Prin. Invest.: S KITE
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 6961 WHEELING JESUIT UNIV 9637
 CLASSROOM OF THE FUTURE
 02/06/1998 - 06/30/2000 FY01: -\$195 Total: \$299,748
Prin. Invest.: R MYERS
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8628 WHEELING JESUIT UNIV 9638
 EARTH SYSTEM SCIENCE EDUCATION ALLIANCE
 06/24/1999 - 06/30/2002 FY01: \$200,815 Total: \$588,498
Prin. Invest.: R J MEYERS
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 3 858 WHEELING JESUIT UNIV 9639
 THE SYNTHESIS OF INDIUM, GALLIUM AND COPPER DITHIO CARBAMATE
 COMPLEXES FOR DEPOSITION FOR SPACE AND
 02/01/2001 - 12/31/2001 FY01: \$9,020 Total: \$9,020
Prin. Invest.: N N DUFFY
Tech. Officer: GRC/A F HEPP
CASE Category: 12 - CHEMISTRY

NCC 5 440 WHEELING JESUIT UNIV 9640
 NATIONAL TECHNOLOGY TRANSFER CENTER: NASA TECHN. TRANSFER &
 COMMERCIALIZATION PROGRAM
 11/09/1999 - 11/30/2001 FY01: \$7,284,000 Total: \$14,457,000
Prin. Invest.: J P ALLEN
Tech. Officer: GSFC/N CHEEKS
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 451 WHEELING JESUIT UNIV 9641
 CLASSROOM OF THE FUTURE PROGRAM
 01/28/2000 - 12/31/2001 FY01: \$1,900,000 Total: \$3,840,000
Prin. Invest.: N NAIK
Tech. Officer: GSFC/S CANRIGHT
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

WISCONSIN

NAG 3 2293 LAC COURTE OREILLES OJIBWA COMM COLL 9642
 RENEWABLE ENERGY AND SUSTAINABLE DEVELOPMENT INST PROJECT
 09/24/1999 - 09/30/2001 FY01: \$100,000 Total: \$200,000
Prin. Invest.: D H ANDERSON
Tech. Officer: GRC/A F HEPP
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 9 1156 MARQUETTE UNIV 9643
 LIMB MUSCLE FUNCTION WITH UNLOADING AND COUNTERMEASURES
 09/15/1999 - 09/30/2002 FY01: \$186,026 Total: \$404,487
Prin. Invest.: R H FITTS
Tech. Officer: JSC/C W LLOYD
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAS 9 18768 MARQUETTE UNIV 9644
 EFFECTS OF WEIGHTLESSNESS ON HUMAN SINGLE MUSCLE F IBER
 FUNCTION FOR SLS-3
 08/31/1992 - 12/31/1999 FY01: \$2,466 Total: \$972,628
Prin. Invest.: R H FITTS, NONE
Tech. Officer: JSC/V ELLERBEE
CASE Category: 59 - LIFE SCIENCE, OTHER

NCC 9 116 MARQUETTE UNIV 9645
 LIFE SCIENCE EXPERIMENT EFFECT OF PROLONGED SPACEFLIGHT ON
 HUMAN SKELETAL MUSCLE
 01/05/2001 - 04/01/2004 FY01: \$300,000 Total: \$300,000
Prin. Invest.: D L COSTILL, D R RILEY, R H FITTS
Tech. Officer: JSC/D BAUMANN
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 2 956 MEDICAL COLLEGE OF WISCONSIN 9646
 THE EFFECTS OF MICROGRAVITY ON NEUROMUSCULAR DEVELOPMENT
 01/20/1995 - 10/31/2001 FY01: \$0 Total: \$871,961
Prin. Invest.: D A RILEY
Tech. Officer: ARC/W E HINDS, ARC/D M WINGET
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 2 1422 MEDICAL COLLEGE OF WISCONSIN 9647
 EVALUATION OF THE QUALITY OF PRESERVATION OF ARCHIVED FIXED
 TISSUE SAMPLES FOR ULTRASTRUCTURAL STUDY
 07/18/2000 - 07/31/2002 FY01: \$0 Total: \$42,000
Prin. Invest.: D A RILEY
Tech. Officer: ARC/R D MACELROY, ARC/M M AVERNER
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 3 2242 UNIV WISCONSIN-PLATTEVILLE 9648
 SLOW CRACK GROWTH AND FATIGUE LIFE PREDICTION OF CERAMIC
 COMPONENTS SUBJECTED TO VARIABLE LOAD HISTORY
 03/10/1999 - 11/01/2000 FY01: \$0 Total: \$42,000
Prin. Invest.: O JADAAN
Tech. Officer: GRC/N N NEMETH
CASE Category: 46 - MECHANICAL ENGR

NGT 5 40097 UNIV OF WISCONSIN - GREEN BAY 9649
 WISCONSIN SPACE GRANT COLLEGE & FELLOWSHIP PROGRAM
 03/06/2001 - 02/28/2002 FY01: \$473,250 Total: \$473,250
Prin. Invest.: R A YINGST
Tech. Officer: GSFC/D D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 2 1163 UNIV OF WISCONSIN - LA CROSSE 9650
 A WORKBENCH FOR VOLUMETRIC DATA FILTERING AND SEGMENTATION ALGORITHMS
 03/16/2000 - 12/31/2001 FY01: \$0 Total: \$31,901
Prin. Invest.: S O SENER
Tech. Officer: ARC/J D SMITH/P
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG 1 2073 UNIV OF WISCONSIN - MADISON 9651
 THE COLLECTION AND ANALYSIS OF HIGH SPECTRAL- RESOLUTION INFRARED RADIANCES AS PART OF FIRE
 05/26/1998 - 11/30/2001 FY01: \$0 Total: \$354,000
Prin. Invest.: S A ACKERMAN, H RECERCOMB
Tech. Officer: LARC/V E DELNORE, LARC/J RAPER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 2162 UNIV OF WISCONSIN - MADISON 9652
 MODELING AND ANALYSIS OF SAGE CONSTITUENT MIXING IN THE LOWER STRATOSPHERE AND UPPER TROPOSPHERE
 03/16/1999 - 12/31/2001 FY01: \$90,000 Total: \$310,000
Prin. Invest.: M H HITCHMAN
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 2196 UNIV OF WISCONSIN - MADISON 9653
 THE CONTINUATION OF CLOUD STATISTICS FOR NASA CLIMATE CHANGE STUDIES (NAG-1-1830 FOLLOW-ON/NRA)
 05/21/1999 - 04/17/2001 FY01: \$0 Total: \$80,000
Prin. Invest.: D P WYLIE
Prin. Invest.: NONE
Tech. Officer: LARC/V E DELNORE, LARC/J L ROPER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 1 2322 UNIV OF WISCONSIN - MADISON 9654
 OVERLAPPING CLOUD INVESTIGATIONS USING MODIS, CERES AND ARM CART SITE DATA
 08/18/2000 - 12/31/2001 FY01: \$64,891 Total: \$139,891
Prin. Invest.: S ACKERMAN
Tech. Officer: LARC/J A GREEN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 2 1189 UNIV OF WISCONSIN - MADISON 9655
 MOLECULAR GENETICS OF ROOT THIGMORESPONSIVENESS IN ARABIDOPSIS THALIANA
 03/19/1998 - 03/31/2001 FY01: \$0 Total: \$451,867
Prin. Invest.: P H MASSON
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 2 1220 UNIV OF WISCONSIN - MADISON 9656
 SKELETAL MUSCLE GROWTH OF REPAIR DURING MICROGRAVITY
 05/20/1998 - 06/30/2001 FY01: \$0 Total: \$347,962
Prin. Invest.: E SCHULTZ
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 2 1336 UNIV OF WISCONSIN - MADISON 9657
 MOLECULAR CLONING & CHARACTERIZATION OF THE AGR1 GENE OF ARABIDOPSIS THALIANA
 07/15/1999 - 06/30/2002 FY01: \$156,379 Total: \$392,490
Prin. Invest.: P MASSON
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 2 1380 UNIV OF WISCONSIN - MADISON 9658
 EFFECT OF SPACE FLIGHT ON ADRENAL MEDULLARY FUNCTION
 09/01/1999 - 02/28/2001 FY01: \$0 Total: \$90,070
Prin. Invest.: P ILEKES
Tech. Officer: ARC/R D MACELROY, ARC/M M AVERNER
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 2 1492 UNIV OF WISCONSIN - MADISON 9659
 MOLECULAR GENETICS OF ROOT THIGMORESPONSIVENESS IN ARABIDOPSIS
 07/05/2001 - 08/30/2002 FY01: \$61,049 Total: \$61,049
Prin. Invest.: P H MASSON
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 2 1510 UNIV OF WISCONSIN - MADISON 9660
 SKELETAL MUSCLE GROWTH AND REPAIR DURING MICROGRAVITY
 07/24/2001 - 11/30/2002 FY01: \$71,752 Total: \$71,752
Prin. Invest.: E SCHULTZ
Tech. Officer: ARC/M M AVERNER, ARC/R D MACELROY
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NAG 5 647 UNIV OF WISCONSIN - MADISON 9661
 DEVELOPMENT & FLIGHT OF WIDE FIELD IMAGING SURVEY POLARIMETER
 03/01/1988 - 12/31/2000 FY01: \$0 Total: \$3,639,890
Prin. Invest.: K H NORDSIECK
Tech. Officer: GSFC/L J EARLY, GSFC/R H PLESS
CASE Category: 13 - PHYSICS

NAG 5 674 UNIV OF WISCONSIN - MADISON 9662
 SPATIAL HETERODYNE SPECTROMETER FOR INVESTIGATION OF INTERSTELLAR FAR ULTRAVIOLET EMISSION LINES
 11/30/1990 - 01/31/2002 FY01: \$0 Total: \$2,125,999
Prin. Invest.: R J REYNOLDS
Tech. Officer: GSFC/L J EARLY, GSFC/R H PLESS
CASE Category: 13 - PHYSICS

NAG 5 679 UNIV OF WISCONSIN - MADISON 9663
 COSMIC X-RAY PHYSICS
 03/25/1991 - 04/30/2001 FY01: \$0 Total: \$3,194,189
Prin. Invest.: D MCCAMMON
Tech. Officer: GSFC/L J EARLY, GSFC/R H PLESS
CASE Category: 13 - PHYSICS

NAG 5 2720 UNIV OF WISCONSIN - MADISON 9664
 CONTINUING INVESTIGATION OF SINGLE-PHOTON CALORIMETERS FOR X-RAY SPECTROSCOPY
 09/08/1994 - 07/31/2000 FY01: \$0 Total: \$454,788
Prin. Invest.: D MCCAMMON
Tech. Officer: GSFC/R L KELLEY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 2854 UNIV OF WISCONSIN - MADISON 9665
 MULTI-WAVELENGTH DIAGNOSTICS OF ROTATION AND NON-S PHERICAL WINDS IN THE WOLF-RAYET STAR
 12/22/1994 - 09/30/1999 FY01: -\$1,846 Total: \$226,153
Prin. Invest.: J P CASSINELLI
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 3513 UNIV OF WISCONSIN - MADISON 9666
 INTEGRATING BIOGEOCHEMICAL ECOLOGICAL AND HYDROLOG DYNAMIC BIOSPHERE
 11/18/1996 - 11/14/2000 FY01: \$0 Total: \$903,971
Prin. Invest.: J A FOLEY
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 3524 UNIV OF WISCONSIN - MADISON 9667
 STUDIES OF THE HOT INTERSTELLAR MEDIUM AND HALO OF STRUCTURE & SPECTRAL CHARACTERISTICS OF THE LOW E
 11/13/1996 - 05/14/2002 FY01: \$144,000 Total: \$575,390
Prin. Invest.: W T SANDERS, NONE
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 3769 UNIV OF WISCONSIN - MADISON 9668
 NEW MATHEMATICAL METHODS FOR VARIATIONAL OBJECTIVE ESTIMATION
 02/13/1997 - 09/30/2002 FY01: \$0 Total: \$360,000
Prin. Invest.: G WAHBA
Tech. Officer: GSFC/K H BERGMAN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 4484 UNIV OF WISCONSIN - MADISON 9669
 CO-INVESTIGATOR TO NRA-96-OSS-07 "PRECISION BALLOO OF ANISOTROPY IN THE CMBR"
 05/30/1997 - 05/31/2000 FY01: \$0 Total: \$123,000
Prin. Invest.: P TIMBIE
Tech. Officer: GSFC/R SILVERBERG
CASE Category: 13 - PHYSICS

NAG 5 4751 UNIV OF WISCONSIN - MADISON 9670
 CHARACTERIZING THE SPATIAL AND TERMPORAL DISTRIBUTION THICKNESS OVER THE ATLANTIC BASIN UTILIZING GOES-
 06/17/1997 - 05/31/2000 FY01: \$0 Total: \$150,000
Prin. Invest.: E PRINS
Tech. Officer: GSFC/B N HOLBEN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 5252 UNIV OF WISCONSIN - MADISON 9671
 FLIGHT OF FAR-ULTRAVIOLET SPECTROPOLARIMETER (FUSP) AND DEVELOPMENT AND FLIGHT OF CUPID PI NORDSIECH
 02/04/2000 - 02/03/2003 FY01: \$420,000 Total: \$815,640
Prin. Invest.: K H NORDSIECH, NONE
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 - PHYSICS

NAG 5 5253 UNIV OF WISCONSIN - MADISON 9672
 UV POLARIMETRIC OBSERVATIONS OR RESONANCE LINE AND DUST SCATTERING
 02/18/2000 - 02/03/2003 FY01: \$0 Total: \$136,000
Prin. Invest.: W HARIS
Tech. Officer: GSFC/W B JOHNSON
CASE Category: 13 - PHYSICS

NAG 5 5270 UNIV OF WISCONSIN - MADISON 9673
 STUDIES OF THE COSMIC X-RAY BACKGROUND FIRST YEAR FUNDING
 04/11/2000 - 04/06/2003 FY01: \$350,000 Total: \$667,000
Prin. Invest.: D MCCAMMON
Tech. Officer: GSFC/J BRINTON
CASE Category: 13 - PHYSICS

NAG 5 5272 UNIV OF WISCONSIN - MADISON 9674
 FIRST FUNDING FOR PHASE 1 OF CIRRUS PROJECT FIRST FUNDING FOR PHASE 1 OF CIRRUS PROJECT
 04/17/2000 - 04/13/2006 FY01: \$0 Total: \$299,808
Prin. Invest.: S ACKERMAN
Tech. Officer: GSFC/D L PIERCE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6032 UNIV OF WISCONSIN - MADISON 9675
 THE EVOLUTION OF GALAXY IMAGE STRUCTURE TO Z=3
 10/08/1997 - 10/14/2001 FY01: \$55,100 Total: \$270,000
Prin. Invest.: M BERSHADY
Tech. Officer: GSFC/D WEST
CASE Category: 11 - ASTRONOMY

NAG 5 6248 UNIV OF WISCONSIN - MADISON 9676
 PLANETARY IMAGING FOURIER TRANSFORM SPECTROMETER
 08/19/1997 - 07/31/2000 FY01: \$0 Total: \$405,000
Prin. Invest.: D A SROMOVSKY
Tech. Officer: GSFC/B CAMPBELL
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 6457 UNIV OF WISCONSIN - MADISON 9677
 VALIDATION OF ASTER AND MODIS SURFACE-TEMPERATURE AND VEGETATION PRODUCTS WITH SURFACE-FLUX APPLICATION
 10/15/1997 - 03/31/2002 FY01: \$200,274 Total: \$849,751
Prin. Invest.: S T GOWER
Tech. Officer: GSFC/D O STARR
CASE Category: 19 - PHYSICALSCIENCE, OTHER

NAG 5 6535 UNIV OF WISCONSIN - MADISON 9678
 REMOTE SENSING TEACHING AND RESEARCH IN SUPPORT OF CREATING A VISION FOR THE ENVIRONMENT AS A WHOLE
 10/24/1997 - 09/30/1999 FY01: -\$12,264 Total: \$411,705
Prin. Invest.: D MACKAY
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 6546 UNIV OF WISCONSIN - MADISON 9679
 SYNOPTIC MONITORING OF THE IO TORUS: SPECTROSCOPY, DOPPLER IMAGERY, AND PHOTOMETRY
 10/29/1997 - 10/31/2000 FY01: \$0 Total: \$151,084
Prin. Invest.: F SCHERB
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 6787 UNIV OF WISCONSIN - MADISON 9680
 GROUND-BASED OBSERVATION OF [IO] 6300A EMISSION FR OM IO'S
 ATMOSPHERE
 02/06/1998 - 03/31/2001 FY01: \$0 Total: \$180,000
Prin. Invest.: F SCHERB
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 - ASTRONOMY

NAG 5 6788 UNIV OF WISCONSIN - MADISON 9681
 CLOUDS ON NEPTUNE: MOTIONS, EVOLUTION, STRUCTURE
 02/06/1998 - 03/31/2001 FY01: \$0 Total: \$230,780
Prin. Invest.: L A SROMOVSKY
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 - ASTRONOMY

NAG 5 6833 UNIV OF WISCONSIN - MADISON 9682
 THE MEASUREMENT OF VACUUM ULTRAVIOLET ATOMIC TRANSITION
 PROBABILITIES OF ASTROPHYSICAL INTEREST
 01/07/1998 - 12/31/2000 FY01: \$0 Total: \$264,780
Prin. Invest.: J LAWLER
Prin. Invest.: NONE
Tech. Officer: GSFC/H HASAN
CASE Category: 11 - ASTRONOMY

NAG 5 7026 UNIV OF WISCONSIN - MADISON 9683
 AN ULTRA-LOW BANDWIDTH DIGITAL IMAGING SYSTEM FOR SPACECRAFT
 02/26/1998 - 06/30/2001 FY01: \$0 Total: \$138,000
Prin. Invest.: J W PERCIVAL
Tech. Officer: GSFC/R SPAGNUOLO
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 5 7192 UNIV OF WISCONSIN - MADISON 9684
 ENHANCEMENTS TO THE GOES ARCHIVE
 03/23/1998 - 03/31/2000 FY01: \$0 Total: \$132,561
Prin. Invest.: F BRETHERTON
Tech. Officer: GSFC/J DODGE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7214 UNIV OF WISCONSIN - MADISON 9685
 PRESIDENTIAL EARLY CAREER AWARD FOR SCIENTISTS AND ENGINEERS
 04/06/1998 - 04/30/2002 FY01: \$100,000 Total: \$366,666
Prin. Invest.: J FOLEY, NONE
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7298 UNIV OF WISCONSIN - MADISON 9686
 CARBON BUDGETS FOR BOREAS AND OTHER BOREAL FORESTS :
 TOWARDS A BETTER UNDERSTANDING OF FACTORS IN
 04/24/1998 - 04/30/2000 FY01: \$0 Total: \$148,350
Prin. Invest.: S T GOWER
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 7444 UNIV OF WISCONSIN - MADISON 9687
 A COMPREHENSIVE INVESTIGATION OF THE STRUCTURING OF THE
 INTERSTELLAR MEDIUM BY MASSIVE STARS - L
 06/09/1998 - 06/14/2000 FY01: -\$5 Total: \$59,995
Prin. Invest.: B P WAKKER
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 7572 UNIV OF WISCONSIN - MADISON 9688
 "A STUDY OF ATMOSPHERIC SCATTERING CONTRIBUTIONS TO GLAS
 LIDAR RETURNS FROM THE EARTH'S SURFACE"
 07/24/1998 - 09/30/2001 FY01: \$80,000 Total: \$220,000
Prin. Invest.: E W ELORANTA
Tech. Officer: GSFC/J D SPINHIRNE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7605 UNIV OF WISCONSIN - MADISON 9689
 CRITICAL REVIEW OF CHINESE RESEARCH ON THE SOLAR INFLUENCES
 ON CLIMATE
 07/22/1998 - 07/31/2002 FY01: \$0 Total: \$218,976
Prin. Invest.: P WANG
Tech. Officer: GSFC/J SHARBER
CASE Category: 11 - ASTRONOMY

NAG 5 7626 UNIV OF WISCONSIN - MADISON 9690
 ANALYSIS OF THE IUE SPECTRA OBTAINED DURING THE SH OEMAKER/
 LEVY ENCOUNTER
 08/03/1998 - 09/30/1999 FY01: \$0 Total: \$62,665
Prin. Invest.: D M HARRIS
Tech. Officer: GSFC/R BEEBE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7661 UNIV OF WISCONSIN - MADISON 9691
 A STUDY OF UNCERTAINTIES FOR MODIS CLOUD RETRIEVALS OF
 OPTICAL THICKNESS AND EFFECTIVE RADIUS
 09/02/1998 - 03/31/2001 FY01: -\$49,408 Total: \$110,269
Prin. Invest.: D PINCUS
Tech. Officer: GSFC/D STARR
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 7931 UNIV OF WISCONSIN - MADISON 9692
 PHYSICS OF AN UNSTABLE WIND FROM THE UNSTABLE STAR P CYGNI
 ADP-98
 12/14/1998 - 12/14/2001 FY01: \$0 Total: \$121,000
Prin. Invest.: K H NORDSIECK
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 7952 UNIV OF WISCONSIN - MADISON 9693
 INTEGRATED STUDIES OF COMET C/199501 (HALE-BOPP) USING THE
 RESULTS OF THE UNIV WI/GSFC OBSERVATION CAMPAIN
 12/17/1998 - 12/31/2002 FY01: \$98,357 Total: \$276,256
Prin. Invest.: D M HARRIS
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 - ASTRONOMY

NAG 5 8057 UNIV OF WISCONSIN - MADISON 9694
 INTERPRETATION OF RADIATIVE ENERGY FLUXES IN JUPITER'S
 ATMOSPHERE
 01/15/1999 - 01/31/2001 FY01: \$0 Total: \$128,085
Prin. Invest.: L A SROMOVSKY
Tech. Officer: GSFC/R BEEBE
CASE Category: 11 - ASTRONOMY

NAG 5 8069 UNIV OF WISCONSIN - MADISON 9695
 BIGFOOT--CHARACTERIZING LAND COVER, LAI AND NPP AT THE LAND-
 SHAPE SCALE FOR EOS/MODIS VALIDATION
 01/28/1999 - 12/31/2001 FY01: \$169,401 Total: \$575,038
Prin. Invest.: S T GOWER
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8280 UNIV OF WISCONSIN - MADISON 9696
 THE HISTORY AND INITIAL MASS FUNCTION OF THE LAMBDA ORIONIS
 STAR FORMING REGION(ADP 98)
 04/15/1999 - 02/28/2002 FY01: \$0 Total: \$56,505
Prin. Invest.: R D MATHIEU
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8333 UNIV OF WISCONSIN - MADISON 9697
 X-RAY OBSERVATIONS OF INTRIGUING NOVAE (ADP98)
 03/02/1999 - 02/29/2000 FY01: \$0 Total: \$29,190
Prin. Invest.: H B OGELMAN
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8417 UNIV OF WISCONSIN - MADISON 9698
 THEORETICAL STUDIES OF THE DIFFUSE INTERSTELLAR MEDIUM (ATP 98)
 03/25/1999 - 03/31/2002 FY01: \$199,925 Total: \$290,025
Prin. Invest.: D P COX
Tech. Officer: GSFC/D K WEST
CASE Category: 11 - ASTRONOMY

NAG 5 8537 UNIV OF WISCONSIN - MADISON 9699
 X-RAY DETECTORS FOR SPECTROSCOPY OF 0.1-0.3 KEV EXTENDED
 SOURCES WITH SUB-EV RESOLUTION.
 07/09/1999 - 07/14/2002 FY01: \$139,500 Total: \$284,116
Prin. Invest.: D MCCAMMON *Prin. Invest.:* NONE
Tech. Officer: GSFC/G MUCKLOW
CASE Category: 13 - PHYSICS

NAG 5 8554 UNIV OF WISCONSIN - MADISON 9700
 LONG-TERM WATER FLUX CHANGES FROM CONVERTING OLD- GROWTH
 PINE FOREST TO HARDWOOD FORESTS IN NORTH
 06/17/1999 - 06/30/2002 FY01: \$118,552 Total: \$319,128
Prin. Invest.: D MACKAY
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8588 UNIV OF WISCONSIN - MADISON 9701
 A LOW COST ATTITUDE DETERMINATION SYSTEM & IMAGER WITH
 EMBEDDED COMPRESSION.
 07/09/1999 - 07/14/2001 FY01: \$0 Total: \$560,530
Prin. Invest.: J W PERCIVAL
Tech. Officer: GSFC/G MUCKLOW
CASE Category: 42 - ASTRONAUTICAL ENGR

NAG 5 8597 UNIV OF WISCONSIN - MADISON 9702
 THE ROLE OF LAND USE AND LAND COVER CHANGE ON THE TERRES-
 TRIAL WATER BALANCE OF THE MISSISSIPPI BASIN
 06/11/1999 - 06/30/2002 FY01: \$111,735 Total: \$294,621
Prin. Invest.: J A FOLEY
Tech. Officer: GSFC/E T ENGMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8625 UNIV OF WISCONSIN - MADISON 9703
 DOCUMENTING, UNDERSTANDING, AND PREDICTING THE AGGREGATE
 SURFACE RADIATION FLUXES FOR SHEBA
 08/31/1999 - 06/14/2000 FY01: \$0 Total: \$57,159
Prin. Invest.: J R KEYS
Tech. Officer: GSFC/S GOGINENI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 8639 UNIV OF WISCONSIN - MADISON 9704
 SIMPLE MODELS OF THE SPATIAL DISTRIBUTION OF CLOUD RADIATIVE
 PROPERTIES FOR REMOTE SENSING STUDIES
 06/29/1999 - 09/30/2001 FY01: -\$42,593 Total: \$47,887
Prin. Invest.: R PINCUS
Tech. Officer: GSFC/W WISCOMBE
CASE Category: 31 - ATMOSPHERICSCIENCE

NAG 5 8652 UNIV OF WISCONSIN - MADISON 9705
 CONTINUING INVESTIGATION OF SINGLE-PHOTON CALORIMETERS FOR
 X-RAY SPECTROSCOPY
 08/19/1999 - 09/30/2001 FY01: \$0 Total: \$100,000
Prin. Invest.: D MCCAMMON
Tech. Officer: GSFC/R L KELLEY
CASE Category: 11 - ASTRONOMY

NAG 5 8967 UNIV OF WISCONSIN - MADISON 9706
 OBSERVATIONAL CONSTRAINTS FOR THE GALACTIC FOUNDATION - FUSE
 01/24/2000 - 01/31/2003 FY01: \$0 Total: \$56,200
Prin. Invest.: R BENJAMIN
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 9024 UNIV OF WISCONSIN - MADISON 9707
 OBSERVATIONAL CONSTRAINTS FOR THE GALACTIC FOUNTAIN-FUSE
 HIGH VELOCITY CLOUDS: ORIGIN
 02/28/2000 - 02/28/2002 FY01: \$0 Total: \$70,459
Prin. Invest.: B P WAKKER
Tech. Officer: GSFC/G SONNEBORN
CASE Category: 11 - ASTRONOMY

NAG 5 9028 UNIV OF WISCONSIN - MADISON 9708
 EARTH SCIENCE COMPONENT FOR ACADEMIC PROFESSIONAL ENHANCE-
 MENT (ESCAPE)
 02/04/2000 - 02/14/2002 FY01: \$43,781 Total: \$86,975
Prin. Invest.: S S LIMAYE
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9084 UNIV OF WISCONSIN - MADISON 9709
 STATISTICAL ANALYSIS OF ATMOSPHERIC OZONE DATA FOR TREND
 FEATURES & STUDIES ON STATISTICAL METHODOLOGY
 02/16/2000 - 08/31/2001 FY01: \$0 Total: \$30,000
Prin. Invest.: G C REINSEL
Tech. Officer: GSFC/P K BHARTIA
CASE Category: 31 - ATMOSPHERICSCIENCE

NAG 5 9179 UNIV OF WISCONSIN - MADISON 9710
 THE ORIGINS OF GALACTIC HALO GAS: ACCRETION AND FOUNTAIN
 FLOWS (LISA 99)
 03/07/2000 - 03/14/2002 FY01: \$104,421 Total: \$201,637
Prin. Invest.: B P WAKKER
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9226 UNIV OF WISCONSIN - MADISON 9711
SPECTRAL DIAGNOSTICS FOR EARLY-TYPE STARS IN SUPPO RT OF HIGH-
RESOLUTION SATELLITE OBSERVATIONS (LTS)
03/09/2000 - 03/14/2002 FY01: \$20,033 Total: \$39,060
Prin. Invest.: J CASSINELLI
Tech. Officer: GSFC/R OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 9295 UNIV OF WISCONSIN - MADISON 9712
DIAGNOSTIC & PREDICTIVE STUDIES OF THE EARTH'S HYDROLOGIC
CYCLE USING MODEL-ASSIMILATED & REMOTE
04/13/2000 - 12/31/2001 FY01: \$195,000 Total: \$305,000
Prin. Invest.: D R JOHNSON
Tech. Officer: GSFC/R ATLAS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9389 UNIV OF WISCONSIN - MADISON 9713
INTERNATONAL MODIS/AIRS PROCESSING PACKAGE (IMAPP) FOR EOS
DIRECT BROADCAST DATA
04/04/2000 - 04/14/2003 FY01: \$250,000 Total: \$500,000
Prin. Invest.: A HUANG
Tech. Officer: GSFC/J DODGE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9436 UNIV OF WISCONSIN - MADISON 9714
MONITORING AND MODELING OF LAND-SURFACE ENERGY AND WATER
FLUXES USING ANENHANCEDPATHFINDER DATABASE
04/13/2000 - 04/30/2002 FY01: \$192,532 Total: \$343,710
Prin. Invest.: G DIAK
Tech. Officer: GSFC/J DODGE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9452 UNIV OF WISCONSIN - MADISON 9715
HUMAN ACTIVITY AND A CHANGING BIOSPHERE
04/13/2000 - 04/30/2002 FY01: \$298,535 Total: \$495,681
Prin. Invest.: J FOLLEY
Tech. Officer: GSFC/D WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 9483 UNIV OF WISCONSIN - MADISON 9716
COLLABORATIVE ANALYSIS AND VISUALIZATION OF SPACE SCIENCE DATA
USING JAVA AND VISAD
04/21/2000 - 04/30/2001 FY01: \$0 Total: \$85,000
Prin. Invest.: W T SANDERS
Tech. Officer: GSFC/J BREDEKAMP
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 9567 UNIV OF WISCONSIN - MADISON 9717
PRECISION BALLOON-BORNE MEASUREMENTS OF THE ANISOT ROPY IN
THE COSMIC INFRARED & FAR-INFRARED BACKGR
05/05/2000 - 05/14/2001 FY01: \$0 Total: \$79,980
Prin. Invest.: P TIMBE
Tech. Officer: GSFC/E S CHENG
CASE Category: 11 - ASTRONOMY

NAG 5 9673 UNIV OF WISCONSIN - MADISON 9718
DETERMINATION OF MOMENTUM TRANSPORT, ORGANIZATION, &
TEMPORAL INTENSITY OF DEEP TROPICAL CONVECTION
06/01/2000 - 05/31/2002 FY01: \$40,000 Total: \$60,339
Prin. Invest.: J R MECIKALSKI, NONE
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9688 UNIV OF WISCONSIN - MADISON 9719
APPLICATION OF REMOTE SENSING TO ASSESS THE IMPACT OF SHORT
TERM CLIMATEVARIABILITY ON COASTAL SEDIM
06/14/2000 - 06/14/2002 FY01: \$150,000 Total: \$200,000
Prin. Invest.: P MENZEL
Tech. Officer: GSFC/H V FREY
CASE Category: 32 - GEOLOGICALSCIENCE

NAG 5 9712 UNIV OF WISCONSIN - MADISON 9720
GLAST: A GEV ALL-SKY MONITOR OF TRANSIENT PHENOME NA
06/15/2000 - 06/14/2002 FY01: \$34,994 Total: \$54,989
Prin. Invest.: P DINGUS
Tech. Officer: GSFC/S LAMBROS
CASE Category: 13 - PHYSICS

NAG 5 9894 UNIV OF WISCONSIN - MADISON 9721
IMPROVED TRMM RAINFALL ESTIMATES FROM A COMBINA- TION OF
SATELLITE & SURFACE HYDROLOGICAL OBSERVA
08/25/2000 - 11/30/2001 FY01: \$105,000 Total: \$163,020
Prin. Invest.: G W PETTY
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 9931 UNIV OF WISCONSIN - MADISON 9722
THE NEARBY STARBURST DWARF GALAXY NGC 625
09/07/2000 - 09/14/2001 FY01: \$0 Total: \$6,400
Prin. Invest.: H A KOBULNICKY
Tech. Officer: GSFC/D F MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 9999 UNIV OF WISCONSIN - MADISON 9723
OPTIMIZATION OF THE GODDARD PROFILING (GPROF) ALGO RITHM FOR
SUBTROPICAL AND EXTRATROPICAL RAINFALL
11/17/2000 - 12/31/2001 FY01: \$34,641 Total: \$34,641
Prin. Invest.: G W PETTY
Tech. Officer: GSFC/R J LAWRENCE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 10196 UNIV OF WISCONSIN - MADISON 9724
THE MEASUREMENT OF ATOMIC TRANSITION PROBABILITIES FOR SPEC-
TRAL LINES IN THE FUSE BAND
01/04/2001 - 12/31/2001 FY01: \$60,000 Total: \$60,000
Prin. Invest.: J E LAWLER
Tech. Officer: GSFC/P CRANE
CASE Category: 11 - ASTRONOMY

NAG 5 10204 UNIV OF WISCONSIN - MADISON 9725
MINIATURE ADIABATIC DEMAGNETIZATION REFRIGERATOR
12/28/2000 - 12/31/2001 FY01: \$160,000 Total: \$160,000
Prin. Invest.: P TIMBIE
Tech. Officer: GSFC/G STRINGFELLOW
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10258 UNIV OF WISCONSIN - MADISON 9726
 ANTENNA COUPLED TRANSITION EDGE MICROBOLOMETERS WITH
 ON-CHIP FILTERING & DUAL POLARIZATION SENSITI
 01/31/2001 - 12/31/2001 FY01: \$223,105 Total: \$223,105
Prin. Invest.: P TIMBIE
Tech. Officer: GSFC/J CHERVENAK
CASE Category: 13 - PHYSICS

NAG 5 10273 UNIV OF WISCONSIN - MADISON 9727
 SOME NEW MATHEMATICAL METHODS FOR VARIATIONAL OBJECTIVE
 ANALYSIS & ACCURACY ESTIMATION, WITH EM
 01/16/2001 - 01/14/2002 FY01: \$65,000 Total: \$65,000
Prin. Invest.: G WAHBA
Tech. Officer: GSFC/Y SUD
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10415 UNIV OF WISCONSIN - MADISON 9728
 LMC 1995, THE THIRD SUPERSOFT X-RAY NOVA
 02/21/2001 - 02/28/2003 FY01: \$21,667 Total: \$21,667
Prin. Invest.: M ORIO
Tech. Officer: GSFC/R MUSHOTZKY
CASE Category: 11 - ASTRONOMY

NAG 5 10729 UNIV OF WISCONSIN - MADISON 9729
 CONTINUED DEVELOPMENT OF A PLANETARY IMAGING FOURIER TRANS-
 FORM SPECTROMETER (PIFTS)
 04/10/2001 - 04/14/2002 FY01: \$50,000 Total: \$50,000
Prin. Invest.: L SROMOVSKY
Tech. Officer: GSFC/B BETTS
CASE Category: 11 - ASTRONOMY

NAG 5 10770 UNIV OF WISCONSIN - MADISON 9730
 STAR FORMATION FEEDBACK ON GALAXY EVOLUTION (LISA 2000)
 04/26/2001 - 04/30/2002 FY01: \$114,544 Total: \$114,544
Prin. Invest.: H A KOBULNICKY
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 11085 UNIV OF WISCONSIN - MADISON 9731
 CLIMATE AND HUMAN IMPACTS ON WATER RESOURCES IN AFRICA
 07/20/2001 - 08/14/2002 FY01: \$80,503 Total: \$80,503
Prin. Invest.: M COE
Tech. Officer: GSFC/G GUTMAN
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 11155 UNIV OF WISCONSIN - MADISON 9732
 VALIDATION OF THE ATMOSPHERIC INFRARED SOUNDER (AIRS) OVER
 THE ANTARCTIC PLATEAU (AQUA-0080-033) NRA
 08/08/2001 - 08/31/2004 FY01: \$21,375 Total: \$21,375
Prin. Invest.: D C TOBIN
Tech. Officer: GSFC/D STARR
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 11221 UNIV OF WISCONSIN - MADISON 9733
 MAGNETIC FIELDS ON OB STARS (ATP 2000)
 08/09/2001 - 08/14/2004 FY01: \$5,023 Total: \$5,023
Prin. Invest.: J P CASSINELLI
Tech. Officer: GSFC/R J OLIVERSEN
CASE Category: 11 - ASTRONOMY

NAG 5 11242 UNIV OF WISCONSIN - MADISON 9734
 LINKING IN-SITU MEASUREMENTS, REMOTE SENSING, AND MODELS TO
 VALIDATE MODIS PRODUCTS RELATED TO TH
 08/17/2001 - 08/31/2004 FY01: \$93,203 Total: \$93,203
Prin. Invest.: S T GOWER
Tech. Officer: GSFC/D WICKLAND
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 11245 UNIV OF WISCONSIN - MADISON 9735
 INTERANNUAL TO DECADE AIR-SEA CARBON FLUXES: ANALYSIS OF
 MARINE PRODUCTIVITY AND NUTRIENT D
 08/16/2001 - 08/31/2004 FY01: \$117,204 Total: \$117,204
Prin. Invest.: A WINGUTH
Tech. Officer: GSFC/J MARRA
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 11303 UNIV OF WISCONSIN - MADISON 9736
 ANALYSIS OF DYNAMICAL PROCESSES IMPORTANT TO CLIMATE CHANGE
 08/31/2001 - 08/31/2003 FY01: \$100,002 Total: \$100,002
Prin. Invest.: M HITCHMAN
Tech. Officer: GSFC/P DECOLA
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1320 UNIV OF WISCONSIN - MADISON 9737
 RESEARCH DEVELOPMENT OF ATMOSPHERIC PHYSICAL RETRIEVAL
 METHODOLOGIES USING SATELLITE DATA
 01/31/1997 - 01/31/2002 FY01: \$0 Total: \$200,000
Prin. Invest.: G DIAK
Tech. Officer: MSFC/F R ROBERTSON, MSFC/J ARNOLD
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 8 1459 UNIV OF WISCONSIN - MADISON 9738
 R/S PHYSICAL SIMULATION OF MARANGONI CONVECTION IN WELD POOLS
 02/01/1998 - 01/31/2002 FY01: \$90,250 Total: \$340,417
Prin. Invest.: S KOU
Tech. Officer: MSFC/P M DOTY
CASE Category: 47 - METAL & MATERIALS ENGR

NAG 8 1460 UNIV OF WISCONSIN - MADISON 9739
 R/S DYNAMIC REDUCTION AND THE CREATION OF FINE GRAINED
 CERAMICS FROM INVISCID MELTS
 02/01/1998 - 01/31/2002 FY01: \$79,800 Total: \$306,467
Prin. Invest.: R F COOPER
Tech. Officer: MSFC/C TALLEY
CASE Category: 13 - PHYSICS

NAG 8 1651 UNIV OF WISCONSIN - MADISON 9740
 INVESTIGATION OF SENSOR AND ACTUATOR PLACEMENT TECHNIQUES
 11/09/1999 - 11/15/2000 FY01: \$0 Total: \$32,640
Prin. Invest.: D C KAMMER
Tech. Officer: MSFC/M L TINKER, MSFC/F M BUGG
CASE Category: 46 - MECHANICAL ENGR

NAG 8 1672 UNIV OF WISCONSIN - MADISON 9741
 ANALYSIS OF CONTAINERLESS SOLIDIFICATION MICRO-STRUCTURES IN
 UNDERCOOLED MELTS AND COMPOSITE SYS
 05/26/2000 - 11/30/2003 FY01: \$85,500 Total: \$125,500
Prin. Invest.: J N PEREPEZKO
Tech. Officer: MSFC/P DOTY
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

<p>NAG 8 1719 UNIV OF WISCONSIN – MADISON 9742 FILED REVERSED CONFIGURATION FUSION PROPULSION 05/04/2000 – 04/15/2003 FY01: \$27,000 Total: \$59,000 <i>Prin. Invest.:</i> J SANTARIUS <i>Tech. Officer:</i> MSFC/F THEO <i>CASE Category:</i> 22 – COMPUTER SCIENCE</p>	<p>NAS 1 96004 UNIV OF WISCONSIN – MADISON 9750 IDIQ FOR SATELLITE DATA/SITE LICENSE 05/01/1996 – 04/29/2001 FY01: \$0 Total: \$317,171 <i>Prin. Invest.:</i> N APPLICABLE <i>Tech. Officer:</i> LARC/R C HUFFMAN, JR., LARC/P MINNIS <i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE</p>
<p>NAG 8 1783 UNIV OF WISCONSIN – MADISON 9743 ALL-OPTICAL HIGH DENSITY COLD ATOM SOURCES 05/04/2001 – 03/30/2005 FY01: \$60,000 Total: \$60,000 <i>Prin. Invest.:</i> T G WALKER <i>Tech. Officer:</i> MSFC/D S HUBBARD <i>CASE Category:</i> 19 – PHYSICAL SCIENCE, OTHER</p>	<p>NAS 1 99106 UNIV OF WISCONSIN – MADISON 9751 ANALYSIS OF COMBINED PICASSO-CENA AND MODIS DATA 05/17/1999 – 05/16/2002 FY01: \$69,354 Total: \$149,754 <i>Prin. Invest.:</i> S A ACKERMAN <i>Tech. Officer:</i> LARC/G GIBSON <i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE</p>
<p>NAG 8 1820 UNIV OF WISCONSIN – MADISON 9744 INVESTIGATION OF TECHNIQUES FOR SENSOR PLACEMENT, ACTUATOR PLACEMENT, AND TARGETMODE SELECTION... 05/15/2001 – 05/15/2002 FY01: \$39,940 Total: \$39,940 <i>Prin. Invest.:</i> D C KAMMER <i>Tech. Officer:</i> MSFC/M L TINKER <i>CASE Category:</i> 46 – MECHANICAL ENGR</p>	<p>NAS 5 30131 UNIV OF WISCONSIN – MADISON 9752 SPACE TELESCOPE IMAGINE SPECTROGRAPH SUPPORT 09/22/1987 – 01/31/2002 FY01: \$157,000 Total: \$1,290,954 <i>Prin. Invest.:</i> F ROESLER <i>Tech. Officer:</i> GSFC/H D VITAGLIANO <i>CASE Category:</i> 11 – ASTRONOMY</p>
<p>NAG 9 1008 UNIV OF WISCONSIN – MADISON 9745 CONTROL-CREW NETWORK COMMUNICATIONS DURING ROUTINE AND NON-ROUTINE EVENTS 05/01/1998 – 11/01/2000 FY01: \$0 Total: \$304,650 <i>Prin. Invest.:</i> B S CALDWELL <i>Tech. Officer:</i> JSC/B WOOLFORD <i>CASE Category:</i> 59 – LIFE SCIENCE, OTHER</p>	<p>NAS 5 31367 UNIV OF WISCONSIN – MADISON 9753 EOS STUDY 12/30/1991 – 12/14/2001 FY01: \$792,750 Total: \$5,576,095 <i>Prin. Invest.:</i> P MENZEL <i>Tech. Officer:</i> GSFC/D TOLL, GSFC/B CONBOY <i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE</p>
<p>NAG 9 1039 UNIV OF WISCONSIN – MADISON 9746 MEASUREMENT OF BODY COMPOSITION FOR NUTRITIONAL ASSESMENT IN MICROGRAVITY 06/13/1998 – 07/15/2001 FY01: \$0 Total: \$284,907 <i>Prin. Invest.:</i> D SCHOELLER <i>Tech. Officer:</i> KSC/C LLYOD <i>CASE Category:</i> 59 – LIFE SCIENCE, OTHER</p>	<p>NAS 5 31375 UNIV OF WISCONSIN – MADISON 9754 EOS AIRS INVESTIGATION 01/13/1992 – 12/14/2001 FY01: \$425,000 Total: \$2,652,889 <i>Prin. Invest.:</i> H REVERCOMB <i>Tech. Officer:</i> GSFC/E KREINS <i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE</p>
<p>NAG13 99008 UNIV OF WISCONSIN – MADISON 9747 MIDWEST CENTER FOR NATURAL RESOURCE MGMT SAME 03/03/1999 – 03/02/2002 FY01: \$0 Total: \$1,500,000 <i>Prin. Invest.:</i> G DIAK <i>Tech. Officer:</i> SSC/C HILL <i>CASE Category:</i> 99 – MULTI INTERDISCIPL, OTHER</p>	<p>NAS 5 31377 UNIV OF WISCONSIN – MADISON 9755 EOS INVESTIGATION: ALGORITHM DEVELOPMENT WITH HIS/ AIRS 01/08/1992 – 12/14/2001 FY01: \$210,000 Total: \$1,998,640 <i>Prin. Invest.:</i> W L SMITH <i>Tech. Officer:</i> GSFC/E KREINS <i>CASE Category:</i> 39 – ENVIRONMENTAL SCI, OTHER</p>
<p>NAS 1 00070 UNIV OF WISCONSIN – MADISON 9748 ENG. & SCIENTIFIC SUPPORT FOR NAST-I 09/15/2000 – 10/30/2001 FY01: \$476,434 Total: \$1,100,485 <i>Prin. Invest.:</i> F A BEST <i>Tech. Officer:</i> LARC/A ROYAL <i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE</p>	<p>NAS 5 99004 UNIV OF WISCONSIN – MADISON 9756 GLAS SCIENCE TEAM LEADER. 11/25/1998 – 12/01/2002 FY01: \$85,000 Total: \$273,000 <i>Prin. Invest.:</i> C BENTLEY <i>Tech. Officer:</i> GSFC/G SMITH <i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE</p>
<p>NAS 1 00072 UNIV OF WISCONSIN – MADISON 9749 ALGORITHM DEVELOPMENT, MEASUREMENT CONCEPT VALIDAT ION, DATA PROCESSING AND ED./PUBLIC OUTREACH 11/06/2000 – 10/30/2001 FY01: \$1,698,000 Total: \$1,698,000 <i>Prin. Invest.:</i> H REVERCOMB <i>Tech. Officer:</i> LARC/V PARSONS <i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE</p>	<p>NCC 1 01011 UNIV OF WISCONSIN – MADISON 9757 TROPOSPHERIC MODELG STUDIES OF TRACE P FIELD DATA: REGIONAL ASSESMT OF STRATOSPHERIC-TROPOSPH EXCHANGE 01/19/2001 – 01/31/2003 FY01: \$42,224 Total: \$42,224 <i>Prin. Invest.:</i> M H HITCHMAN, G J TRIPOLI <i>Tech. Officer:</i> LARC/J H CRAWFORD <i>CASE Category:</i> 31 – ATMOSPHERIC SCIENCE</p>

NCC 2 542 UNIV OF WISCONSIN - MADISON 9758
 PSYCHOPHYSICAL EVALUATION OF THREE-DIMENSIONAL AUDITORY DISPLAYS
 05/01/1988 - 03/31/2000 FY01: \$0 Total: \$1,583,828
Prin. Invest.: F L WIGHTMAN
Tech. Officer: ARC/E M WENZEL
CASE Category: 69 - PSYCHOLOGY, OTHER

NCC 2 5260 UNIV OF WISCONSIN - MADISON 9759
 STUDY OF MEMORY SYSTEM PERFORMANCE FOR FLUID FLOW POST-PROCESSING TOOLS
 03/17/1998 - 10/31/1999 FY01: \$0 Total: \$66,630
Prin. Invest.: P CAO
Tech. Officer: ARC/M GERALD-YAMASAKI
CASE Category: 22 - COMPUTER SCIENCE

NCC 2 5323 UNIV OF WISCONSIN - MADISON 9760
 TOWARDS A COMMON SERVICE SPECIFICATION & MATCHMAKING FRAMEWORK FOR GRID APPLICATIONS
 05/07/1999 - 04/30/2001 FY01: \$0 Total: \$40,000
Prin. Invest.: M LIVNY
Tech. Officer: ARC/W E JOHNSTON, ARC/G F MORELLO
CASE Category: 22 - COMPUTER SCIENCE

NCC 2 5449 UNIV OF WISCONSIN - MADISON 9761
 FE ISOTOPE STUDIES OF MICROBIAL ECOLOGY
 07/27/2001 - 07/31/2002 FY01: \$93,518 Total: \$93,518
Prin. Invest.: C M JOHNSON, B L BEARD
Tech. Officer: ARC/W W DOLCI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 294 UNIV OF WISCONSIN - MADISON 9762
 HIGH RESOLUTION CARBON EXCHANGE OVER LARGE-SCALE AMAZONIA BASED ON MODELING AND GOES SATELLITE
 06/10/1998 - 12/31/2001 FY01: \$34,885 Total: \$149,659
Prin. Invest.: J M NORMAN
Tech. Officer: GSFC/D W DEERING
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 5 335 UNIV OF WISCONSIN - MADISON 9763
 THE EFFECTS OF TROPICAL FOREST CONVERSION: ECOLOGICAL RESEARCH IN THE LARGE-SCALE BIOSPHERE-ATMOSPHERE
 06/16/1998 - 12/31/2001 FY01: \$25,684 Total: \$92,579
Prin. Invest.: J FOLEY
Tech. Officer: GSFC/D DEERING
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NCC 5 354 UNIV OF WISCONSIN - MADISON 9764
 "GSFC COOPERATIVE GRADUATE RESEARCH ASSISTANTSHIPS"
 08/04/1998 - 08/31/2001 FY01: \$0 Total: \$124,644
Prin. Invest.: M H HITCHMAN
Tech. Officer: GSFC/A J NEGRİ
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 5 365 UNIV OF WISCONSIN - MADISON 9765
 MODELING WETLANDS AND THEIR ROLE IN HYDROLOGICAL AND BIOGEOCHEMICAL CYCLES
 09/24/1998 - 09/30/2001 FY01: \$0 Total: \$50,033
Prin. Invest.: J A FOLEY
Tech. Officer: HQ/L TRAVIS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 8 129 UNIV OF WISCONSIN - MADISON 9766
 R/S "CONTINUATION SUPPORT FOR WISCONSIN CENTER FOR SPACE AUTHORIZATION & ROBOTICS"
 01/30/1997 - 10/31/2001 FY01: \$2,683,000 Total: \$10,148,486
Prin. Invest.: W L ZHOU, J R BULA
Tech. Officer: MSFC/A L MATISAK
CASE Category: 54 - ENVIRONMENTAL BIOLOGY

NCC13 00004 UNIV OF WISCONSIN - MADISON 9767
 MAXIMIZING MUTUAL OPPORTUNITIES: PARTNERSHIP AMONG NASA, UW-MAD AND PRIVATE INDUSTRY
 03/06/2000 - 03/05/2002 FY01: \$195,000 Total: \$345,000
Prin. Invest.: T LILLESAND
Tech. Officer: SSC/A PEEK
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 46 UNIV OF WISCONSIN - MADISON 9768
 017 RECISE MEASUREMENT OF COSMOLOGICAL PARAMETERS V COSMIC MICROWAVE BACKGROUND ANISOTROPY
 06/23/1997 - 06/30/2001 FY01: \$0 Total: \$88,000
Prin. Invest.: P TIMBIE
Tech. Officer: GSFC/M S BURRELL
CASE Category: 11 - ASTRONOMY

NGT 5 115 UNIV OF WISCONSIN - MADISON 9769
 THREE-DIMENSIONAL MULTIWAVELENGTH MODELING TECHNIQUES FOR ANALYSIS OF ASPHERICAL STELLAR
 06/04/2001 - 06/30/2002 FY01: \$21,383 Total: \$21,383
Prin. Invest.: K H NORDSIECK
Prin. Invest.: NONE
Tech. Officer: GSFC/M S BURRELL
CASE Category: 11 - ASTRONOMY

NGT 5 30119 UNIV OF WISCONSIN - MADISON 9770
 EVALUATING THE ROLE OF LAND USE IN THE TERRESTRIAL BIOSPHERE OVER THE LAST CENTURY - ESSF RECIPIENT: NA
 10/01/1997 - 08/31/2000 FY01: \$0 Total: \$66,000
Prin. Invest.: J FOLEY
Tech. Officer: GSFC/G ASRAR
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30146 UNIV OF WISCONSIN - MADISON 9771
 POROELASTIC ANALYSIS OF COSEISMIC AND POSTSEISMIC DEFORMATION ASSOCIATED WITH THE 1992 LANDERS, CALIF
 08/31/1998 - 08/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: H F WANG
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30160 UNIV OF WISCONSIN - MADISON 9772
 SCALE-DEPENDENT CLIMATE CHANGE DUE TO DEFORESTATION IN AMAZONIA
 08/31/1998 - 08/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: W BRINKMANN, NONE
Tech. Officer: GSFC/M Y WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 30176 UNIV OF WISCONSIN - MADISON 9773
 EFFECTS OF LOGGING ACTIVITY ON BIOPHYSICAL PROCESS ES AND
 CARBON CYCLING WITHIN CANADIAN BOREAL FORE
 08/12/1999 - 08/31/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: J FOLEY
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30396 UNIV OF WISCONSIN - MADISON 9774
 THE IMPACT OF CLIMATE AND AGRICULTURE ACTIVITY ON NITRATE
 EXPORT TO THE OCEAN
 08/14/2001 - 08/31/2004 FY01: \$22,000 Total: \$22,000
Prin. Invest.: J FOLEY
Tech. Officer: GSFC/M WEI
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 50185 UNIV OF WISCONSIN - MADISON 9775
 PRECISION MEASUREMENTS OF THE POLARIZATION OF THE COSMIC
 MICROWAVE BACKGROUND RADIATION
 05/27/1998 - 08/31/2001 FY01: \$0 Total: \$66,000
Prin. Invest.: P TIMBIE
Tech. Officer: HQ/A NURRIDIN
CASE Category: 13 - PHYSICS

NGT 5 50295 UNIV OF WISCONSIN - MADISON 9776
 DWARF ELLIPTICALS IN CLUSTERS: THE FIRST GALAXIES STUDENT:
 CHRISTOPHER CONSELICE
 06/26/2000 - 12/31/2001 FY01: \$0 Total: \$22,000
Prin. Invest.: J S GALLAGHER
Tech. Officer: GSFC/L SMITH
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 8 52865 UNIV OF WISCONSIN - MADISON 9777
 PARAMETERIZATION AND SCALE ISSUES ASSOCIATED WITH MACROSCALE
 WATERSHET MODELING
 07/27/1998 - 05/13/2002 FY01: \$0 Total: \$66,000
Prin. Invest.: J F CRUISE
Tech. Officer: MSFC/J F DOWDY
CASE Category: 49 - ENGINEERING, OTHER

NCC 1 354 UNIV OF WISCONSIN - MILWAUKEE 9778
 PION PRODUCTION CROSS SECTIONS
 08/02/1999 - 06/26/2002 FY01: \$60,000 Total: \$128,671
Prin. Invest.: J W NORBURY
Tech. Officer: LARC/R C SINGLETERRY, JR., LARC/J W WILSON
CASE Category: 13 - PHYSICS

NCC 8 173 UNIV OF WISCONSIN - MILWAUKEE 9779
 PC12 PHEOCHROMOCYTOMA CELLS: A PROVEN MODEL SYSTEM FOR
 OPTIMIZING 3-D CELL CULTURE
 03/01/1999 - 11/30/2002 FY01: -\$127,376 Total: \$151,876
Prin. Invest.: P I LELKES
Tech. Officer: JSC/D R MORRISON
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NGT 1 52217 UNIV OF WISCONSIN - MILWAUKEE 9780
 GRADUATE STUDENT RESEARCHERS PROGRAM (GSRP)
 06/01/1999 - 06/30/2002 FY01: \$22,000 Total: \$66,000
Prin. Invest.: S R BLATTNING, J W NORBURY
Tech. Officer: LARC/R C SINGLETERRY, JR., LARC/J W WILSON
CASE Category: 13 - PHYSICS

NGT 5 40039 UNIV OF WISCONSIN - MILWAUKEE 9781
 THE NATIONAL SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
 01/29/1997 - 02/28/2001 FY01: -\$217,000 Total: \$889,673
Prin. Invest.: J W NORBURY
Tech. Officer: GSFC/D E DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 4108 UNIVERSTY OF WISCONSIN-OSHKOSH 9782
 REMOTE SENSING OF PHYTOPLANKTON PRODUCTION IN THE SOUTHERN
 OCEAN
 04/01/1997 - 03/31/2000 FY01: \$0 Total: \$79,528
Prin. Invest.: M P LIZOTTE
Tech. Officer: GSFC/K R ARRIGO
CASE Category: 33 - OCEANOGRAPHY

WYOMING

NAG 1 2164 UNIV OF WYOMING 9783
 EVALUATION OF SAGE II AND BALLOON-BARNE STRATO- SPHERIC
 AEROSOL MEASUREMENTS
 03/18/1999 - 12/31/2001 FY01: \$46,493 Total: \$138,058
Prin. Invest.: T DESHLER
Tech. Officer: LARC/G L MADDREA, LARC/L R POOLE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 1 01063 UNIV OF WYOMING 9784
 SYNTHETIC JET INTERACTION WITH A TURBULENT BOUNDARY LAYER
 FLOW
 04/11/2001 - 04/10/2002 FY01: \$32,885 Total: \$32,885
Prin. Invest.: D R SMITH
Tech. Officer: LARC/F J CHEN
CASE Category: 41 - AERONAUTICAL ENGR

NAG 4 208 UNIV OF WYOMING 9785
 REDUCTION OF BASE DRUG ON LAUNCH VEHICLES REDUCTION OF BASE
 DRUG ON LAUNCH VEHICLES
 05/22/2000 - 03/31/2002 FY01: \$38,974 Total: \$74,384
Prin. Invest.: D W NAUGHTON
Tech. Officer: DFRC/S A WHITMORE
CASE Category: 41 - AERONAUTICAL ENGR

NAG 5 3861 UNIV OF WYOMING 9786
 ASSESSMENT OF CLIMATIC AND ANTHROPOGENIC IMPACTS O CYCLE
 CONSTRAINED BY ATMOSPHERIC MEASUREMENTS AND
 02/03/1997 - 01/14/2002 FY01: \$0 Total: \$129,885
Prin. Invest.: E HUNT, JR.
Tech. Officer: GSFC/D E WICKLAND
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 3935 UNIV OF WYOMING 9787
 INFRARED SPECKLE INTERFEROMETRY OF IO
 03/25/1997 - 11/30/2000 FY01: \$0 Total: \$134,084
Prin. Invest.: D R HOWELL
Tech. Officer: GSFC/T MORGAN
CASE Category: 11 - ASTRONOMY

NAG 5 6628 UNIV OF WYOMING 9788
 INVESTIGATIONS OF SULFATE AEROSOLS AND POLAR STRATOSPHERIC
 CLOUDS USING COMBINED OBSERVATIONS FROM
 11/18/1997 - 11/30/2000 FY01: \$0 Total: \$169,003
Prin. Invest.: D E HERVIG
Tech. Officer: GSFC/A DOUGLASS
CASE Category: 31 - ATMOSPHERIC SCIENCE

NAG 5 8904 UNIV OF WYOMING 9789
 THERMAL EMISSION FROM LAVA FLOWS
 12/28/1999 - 12/31/2001 FY01: \$0 Total: \$14,400
Prin. Invest.: R HOWELL
Tech. Officer: GSFC/J GRANT
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 8917 UNIV OF WYOMING 9790
 MULTI-WAVELENGTH MODELING OF HOT SPOTS ON LUNAR
 SURFACE
 01/18/2000 - 12/31/2001 FY01: \$0 Total: \$20,100
Prin. Invest.: R N HOWELL
Tech. Officer: GSFC/D BOGAN
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 11191 UNIV OF WYOMING 9791
 TO ENHANCE GROUND-BASED OBSERVATIONAL SUPPORT FOR TRANS-
 IENT ASTRONOMY RESEARCH
 09/07/2001 - 09/14/2002 FY01: \$18,160 Total: \$18,160
Prin. Invest.: R CANTERNA
Tech. Officer: GSFC/J P NORRIS
CASE Category: 11 - ASTRONOMY

NAG 9 1176 UNIV OF WYOMING 9792
 DEVELOP SECURE INTERNET BASED DATA TRANSFER SYSTEM FOR
 COUNTERMEASURES EVALUATION & VALIDATION PROJ
 11/15/1999 - 11/14/2001 FY01: \$0 Total: \$70,931
Prin. Invest.: R E GANTENBEIN
Tech. Officer: GSFC/C LUNDQUIST
CASE Category: 59 - LIFE SCIENCE, OTHER

NAS 1 18945 UNIV OF WYOMING 9793
 SAGE III SCIENCE INVESTIGATION SUPPORT P.I. - DR. GABOR VALI
 01/17/1990 - 01/31/2005 FY01: \$20,000 Total: \$438,300
Prin. Invest.: G VALI
Tech. Officer: LARC/G L MADDREA, LARC/L R MCMASTER
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 2 5315 UNIV OF WYOMING 9794
 AUTOMATIC FRINGE DETECTION FOR OIL FILM INTERFEROMETER
 SKIN-FRICTION MEASUREMENT
 04/12/1999 - 06/30/2001 FY01: \$0 Total: \$40,108
Prin. Invest.: J W NAUGHTON
Tech. Officer: ARC/D M DRIVER, ARC/G ZILLIAC
CASE Category: 41 - AERONAUTICAL ENGR

NCC 5 414 UNIV OF WYOMING 9795
 EPSCOR PREPARATION PROGRAM
 06/18/1999 - 08/31/2001 FY01: \$0 Total: \$428,236
Prin. Invest.: P JOHNSON
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30350 UNIV OF WYOMING 9796
 EFFECTS OF WIND ON SNOWPACK DISTRIBUTION & SUBSEQUENT MELT-
 WATER ROUTING ON ECOSYSTEM PROPERTIES/STU
 08/24/2000 - 08/31/2002 FY01: \$21,996 Total: \$43,992
Prin. Invest.: W REINER
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 40008 UNIV OF WYOMING 9797
 TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE
 AND FELLOWSHIP PROGRAM
 02/03/1997 - 02/28/2001 FY01: -\$36,504 Total: \$770,996
Prin. Invest.: P E JOHNSON
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 40102 UNIV OF WYOMING 9798
 WYOMING SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
 03/01/2001 - 02/28/2002 FY01: \$249,004 Total: \$249,004
Prin. Invest.: P E JOHNSON
Tech. Officer: GSFC/D D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 9 36 UNIV OF WYOMING 9799
 TRAINING GRANT
 06/04/1998 - 11/01/2001 FY01: \$22,000 Total: \$66,000
Prin. Invest.: R 3 GANTENBEIN
Tech. Officer: JSC/D G SICKOREZ
CASE Category: 22 - COMPUTER SCIENCE

PUERTO RICO

NAG 2 1176 PONCE SCHOOL OF MEDICINE 9800
 MECHANISMS OF UV-B INDUCED FREE RADICAL OXIDATIVE DAMAGE IN
 BOVINE LENSES & HUMAN FIBROBLASTS
 02/11/1998 - 08/28/2002 FY01: \$0 Total: \$300,000
Prin. Invest.: J L MATTA
Tech. Officer: ARC/H L D'ANTONI
CASE Category: 54 - ENVIRONMENTAL BIOLOGY

NAG 2 1385 PONCE SCHOOL OF MEDICINE 9801
 DNA REPAIR & SUSCEPTIBILITY TO UV-INDUCED BASAL CELL CARCINOMA
 IN PUERTO RICAN POPULATIONS
 10/26/1999 - 10/31/2001 FY01: \$67,000 Total: \$200,000
Prin. Invest.: J L MATTA
Tech. Officer: ARC/H L D'ANTONI
CASE Category: 56 - MEDICL

NAG 5 5302 UNIV OF PUERTO RICO - MAYAGUEZ 9802
 CORAL REEF MONITORING BY REMOTE SENSING OF CORAL SPAWN
 09/05/2000 - 12/31/2002 FY01: \$0 Total: \$17,000
Prin. Invest.: E WEIL, J LOPEZ, R ARMSTRONG
Tech. Officer: WFF/C W WRIGHT
CASE Category: 33 - OCEANOGRAPHY

NAG 5 6031 UNIV OF PUERTO RICO - MAYAGUEZ 9803
 DYNAMIC TOPOGRAPHY, GRAVITY, & SURFACE DEFORMATION : APPLICATION TO HAZARD ASSESSMENT OF ERUPTING IS
 10/02/1997 - 09/30/1999 FY01: \$0 Total: \$194,327
Prin. Invest.: G MATTIOLI
Tech. Officer: GSFC/H FREY
CASE Category: 32 - GEOLOGICAL SCIENCE

NAG 5 7198 UNIV OF PUERTO RICO - MAYAGUEZ 9804
 CATS-CARIBBEAN TIME SERIES: A SERIAL OBSERVING STATION IN THE NORTHEASTERN CARIBBEAN SEA
 05/04/1998 - 06/30/2001 FY01: \$0 Total: \$126,000
Prin. Invest.: J CORREDOR
Tech. Officer: GSFC/J W CAMBELL
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10255 UNIV OF PUERTO RICO - MAYAGUEZ 9805
 CURRICULUM INTEGRATION THROUGH SOLAR EDUCATION PROGRAM (CITSEP)
 01/12/2001 - 01/14/2002 FY01: \$55,106 Total: \$55,106
Prin. Invest.: J G GONZALEZ LAGO
Tech. Officer: GSFC/G COLON
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 5 11296 UNIV OF PUERTO RICO - MAYAGUEZ 9806
 CATS CARIBBEAN TIME SERIES: A SERIAL OBSERVING STATION IN THE NORTHEASTERN CARIBBEAN SEA
 08/29/2001 - 09/30/2002 FY01: \$65,200 Total: \$65,200
Prin. Invest.: J CORREDOR
Tech. Officer: GSFC/J MARRA
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 8 1344 UNIV OF PUERTO RICO - MAYAGUEZ 9807
 RESEARCH "ELECTROOPTICAL EFFECTS ON THIN ORGANIC FILMS OF 3-NITROANILINE & 2-CYCLO-OCTYLALUMINO..."
 04/24/1997 - 04/23/2000 FY01: -\$5,565 Total: \$289,916
Prin. Invest.: A LYDERMAN, NONE
Tech. Officer: MSFC/B PENN
CASE Category: 13 - PHYSICS

NAG 8 1389 UNIV OF PUERTO RICO - MAYAGUEZ 9808
 RES: THERMAL PROPERTIES OF MELT-GLASS TRANSITIONS OF ORGANIC COMPOUNDS FOR NONLINEAR OPTICAL APPLICATIONS
 07/09/1997 - 08/15/2001 FY01: \$0 Total: \$433,378
Prin. Invest.: A BARRIENTOS
Tech. Officer: MSFC/M VLASSE
CASE Category: 13 - PHYSICS

NAG10 243 UNIV OF PUERTO RICO - MAYAGUEZ 9809
 MASTAP - TEACHER ENHANCEMENT PROJECT
 04/15/1998 - 10/18/2001 FY01: \$0 Total: \$574,328
Prin. Invest.: B RAMIREZ
Tech. Officer: KSC/J DIGGS
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG10 257 UNIV OF PUERTO RICO - MAYAGUEZ 9810
 SODIUM CHLORIDE AND NITRATE SEPARATION/RECOVERY FROM CELLULOSE WASTES
 04/20/1999 - 04/19/2002 FY01: \$82,537 Total: \$264,146
Prin. Invest.: G COLON
Tech. Officer: KSC/J SAYER
CASE Category: 59 - LIFE SCIENCE, OTHER

NAG13 54 UNIV OF PUERTO RICO - MAYAGUEZ 9811
 ANALYSIS OF THE INHERENT AND APPARENT OPTICAL PROPERTIES
 07/16/1997 - 12/31/2000 FY01: \$0 Total: \$299,899
Prin. Invest.: R A ARMSTRONG
Tech. Officer: SSC/R L MILLER
CASE Category: 33 - OCEANOGRAPHY

NAG13 99029 UNIV OF PUERTO RICO - MAYAGUEZ 9812
 DEVELOPMENT AND VALIDATION OF BIO-OPTICAL ALGORITHMS IN COASTAL WATER
 09/15/1999 - 09/25/2002 FY01: \$52,990 Total: \$199,980
Prin. Invest.: F GILBES
Tech. Officer: SSC/R TRAVIS
CASE Category: 51 - BIOLOGY (EXCLUDING ENVIR)

NCC 5 215 UNIV OF PUERTO RICO - MAYAGUEZ 9813
 "TROPICAL ATMOSPHERIC SCIENCES CENTER"/ THE NASA/PUERTO RICO EPSCOR PROGRAM.
 07/07/1997 - 06/30/2002 FY01: \$0 Total: \$1,800,000
Prin. Invest.: B G WEINER
Tech. Officer: GSFC/D DETROYE
CASE Category: 31 - ATMOSPHERIC SCIENCE

NCC 5 252 UNIV OF PUERTO RICO - MAYAGUEZ 9814
 TROPICAL CENTER FOR EARTH AND SPACE STUDIES
 10/29/1997 - 09/30/2000 FY01: \$0 Total: \$3,612,115
Prin. Invest.: R FERNANDEZ-SEIN
Tech. Officer: GSFC/D WILLIAMS
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 340 UNIV OF PUERTO RICO - MAYAGUEZ 9815
 PARTNERSHIP FOR SPATIAL AND COMPUTATIONAL RESEARCH
 06/22/1998 - 05/31/2002 FY01: \$462,561 Total: \$1,838,192
Prin. Invest.: R VASQUEZ
Tech. Officer: HQ/B WHITE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 518 UNIV OF PUERTO RICO - MAYAGUEZ 9816
 TROPICAL CENTER FOR EARTH AND SPACE STUDIES
 10/05/2000 - 09/30/2001 FY01: \$1,190,981 Total: \$1,190,981
Prin. Invest.: R FERNANDEZ-SEIN
Tech. Officer: GSFC/D L WILLIAMS
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 5 30364 UNIV OF PUERTO RICO - MAYAGUEZ 9817
 THEORETICAL QUANTUM STUDY OF THE DISSOCIATION & ADSORPTION DYNAMICS OF HC1 ON STRATOSPHERIC AEROSOL
 08/24/2000 - 08/31/2001 FY01: \$0 Total: \$22,000
Prin. Invest.: A J CRUZ
Tech. Officer: GSFC/M WEI
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NGT 5 40012 UNIV OF PUERTO RICO - MAYAGUEZ 9818
 TO SUPPORT PROGRAMS AND FELLOWSHIPS UNDER THE NATI COLLEGE AND FELLOWSHIP PROGRAM.
 01/30/1997 - 08/31/2001 FY01: \$0 Total: \$1,150,000
Prin. Invest.: D G WEINER
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT13 52746 UNIV OF PUERTO RICO - MAYAGUEZ 9819
 VERTICAL VARIABILITY IN BIO-OPTICAL PROPERTIES OF COASTAL WATERS -ROLE IN DEV OF NEW REMOTE SENSING
 09/25/2000 - 09/24/2002 FY01: \$22,000 Total: \$33,000
Prin. Invest.: M ROSADO
Tech. Officer: SSC/R TRAVIS
CASE Category: 22 - COMPUTER SCIENCE

NAG 3 2636 UNIV OF PUERTO RICO HUMACAO UNIV COLLEGE 9820
 RF PROPAGATION EFFECTS IN TROPICAL RAIN ZONE RF PROPAGATION EFFECTS IN TROPICAL RAIN ZONE
 09/24/2001 - 09/14/2002 FY01: \$10,000 Total: \$10,000
Prin. Invest.: J C CERSOSIMO
Tech. Officer: GRC/R ACOSTA
CASE Category: 45 - ELECTRICAL ENGR

NAG 5 9050 UNIV OF PUERTO RICO-RIO PIEDRAS 9821
 INTERACTIONS AND DIVERSITY: EARTH SYSTEM SCIENCE & BEYOND
 03/01/2000 - 02/14/2001 FY01: \$0 Total: \$50,000
Prin. Invest.: I L APONTE-AVELLANE
Tech. Officer: GSFC/N KHAZENIE
CASE Category: 39 - ENVIRONMENTAL SCI, OTHER

NAG 5 10321 UNIV OF PUERTO RICO-RIO PIEDRAS 9822
 FUNDING FOR GRANT FOR PROPOSAL NUMBER NRA-99-05-05 5-1085 TITLED "DIAMOND ULTRAVIOLET SENSORS
 01/31/2001 - 12/31/2001 FY01: \$260,883 Total: \$260,883
Prin. Invest.: D MORELL
Tech. Officer: GSFC/B MOTT
CASE Category: 19 - PHYSICAL SCIENCE, OTHER

NAG 8 1709 UNIV OF PUERTO RICO-RIO PIEDRAS 9823
 LAND MANAGEMENT IN THE TROPIC AND ITS EFFECTS ON THE GLOBAL ENVIRONMENT
 03/20/2000 - 03/19/2003 FY01: \$500,000 Total: \$1,000,000
Prin. Invest.: B R WEINER
Tech. Officer: MSFC/W J LOVE
CASE Category: 54 - ENVIRONMENTAL BIOLOGY

NCC 5 407 UNIV OF PUERTO RICO-RIO PIEDRAS 9824
 NASA EPSCOR: PREPARATORY GRANT PROPOSAL
 05/17/1999 - 07/31/2002 FY01: \$0 Total: \$450,000
Prin. Invest.: B R WEINER
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NCC 5 595 UNIV OF PUERTO RICO-RIO PIEDRAS 9825
 PUERTO RICO NASA EPSCOR PROGRAM
 09/24/2001 - 08/31/2004 FY01: \$350,000 Total: \$350,000
Prin. Invest.: B WEINER
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NGT 3 52376 UNIV OF PUERTO RICO-RIO PIEDRAS 9826
 GRADUATE STUDENT RESEARCH
 06/08/2001 - 08/31/2002 FY01: \$22,000 Total: \$22,000
Prin. Invest.: C R CABRERA
Tech. Officer: GRC/F J MONTEGANI
CASE Category: 12 - CHEMISTRY

NGT 5 40091 UNIV OF PUERTO RICO-RIO PIEDRAS 9827
 PUERTO RICO SPACE GRANT COLLEGE AND FELLOWSHIP PROGRAM
 02/22/2001 - 02/28/2002 FY01: \$406,250 Total: \$406,250
Prin. Invest.: W WEINER
Tech. Officer: GSFC/D DETROYE
CASE Category: 99 - MULTI INTERDISCIPL, OTHER

NAG 5 10240 UNIV OF TURABO 9828
 ENGINEERING PREPARATORY PROJECT FOR HISPANIC HIGH SCHOOL STUDENTS
 01/05/2001 - 02/28/2002 FY01: \$192,998 Total: \$192,998
Prin. Invest.: A COURTIER
Tech. Officer: GSFC/M MATEU
CASE Category: 49 - ENGINEERING, OTHER

NGT 5 90064 UNIV OF TURABO 9829
 ENGINEERING PREPARATORY PROJECT FOR HISPANIC HIGH
 03/04/1997 - 02/28/2001 FY01: \$0 Total: \$773,678
Prin. Invest.: B A MARRERO
Tech. Officer: GSFC/M MATEU
CASE Category: 49 - ENGINEERING, OTHER

AUSTRALIA

NAG 1 2113 UNIV OF QUEENSLAND 9832
 SCRAMJET GROUND TEST TO FLIGHT TEST CORRELATION
 10/28/1998 - 09/30/1999 FY01: \$0 Total: \$50,000
Prin. Invest.: A PAULL
Tech. Officer: LARC/A H AUSLENDER, LARC/R T VOLAND
CASE Category: 41 - AERONAUTICAL ENGR

CANADA

NAG 5 9875 BROCK UNIV 9833
 U.S.-CANADA:FLUORESCENCE-BASED DIAGNOSTIC OF IRON LIMITATION FOR ANALYSIS OF NATURAL PHYTOPLANKTON
 08/22/2000 - 08/31/2001 FY01: \$0 Total: \$21,000
Prin. Invest.: D BRUCE
Tech. Officer: GSFC/M BEHRENFELD
CASE Category: 32 - GEOLOGICAL SCIENCE

GREAT BRITAIN

NAG 2 1339 UNIV OF GREENWICH 9834
 TOOLS FOR RAPID PARALLELIZATION OF LEGACY FORTRAN COMPUTATIONAL MECHANICS CODES
 07/27/1999 - 06/30/2000 FY01: \$0 Total: \$150,000
Prin. Invest.: M CROSS
Tech. Officer: ARC/S SAINI
CASE Category: 22 - COMPUTER SCIENCE

NAGW 2127 UNIV OF WALES 9835
 SOLUTION ALGORITHMS FOR HIGH SPEED COMPRESSIBLE FLOWS
 06/15/1990 - 04/30/2002 FY01: \$14,000 Total: \$672,400
Prin. Invest.: O C ZIENKIEWICZ
Tech. Officer: ARC/K K GUPTA, ARC/K L PETERSEN
CASE Category: 41 - AERONAUTICAL ENGR

NETHERLANDS

NAG 1 2129 DELFT UNIV OF TECHNOLOGY-NETHERLANDS 9836
 INVESTIGATION OF THE SENSITIVITY OF THE BUCKLING LOAD TO VARI-
 ATIONS IN DESIGN PARAMETERS AND GEOMET
 01/14/1999 - 12/31/2001 FY01: \$25,000 Total: \$75,001
Prin. Invest.: J ARBOCZ
Tech. Officer: LARC/J H STARNES, JR., LARC/M P NEMETH
CASE Category: 41 - AERONAUTICAL ENGR

NEW ZEALAND

NAG 2 1395 UNIV OF OTAGO 9837
 THE ROLE OF AIRCRAFT ACCIDENT AND INCIDENT CASE HI STORIES IN
 AVIATION SAFETY AND TRAINING
 02/03/2000 - 01/31/2002 FY01: \$83,292 Total: \$171,484
Prin. Invest.: D O'HARE
Tech. Officer: ARC/I BARSHI
CASE Category: 41 - AERONAUTICAL ENGR

PERU

NAS 5 99121 UNIV NACIONAL DE SAN AGUSTIN - AREQUIPA 9838
 OPERATE & MAINTAIN LASER TRACKING STATION AT AREQUIPA PERU
 03/18/1999 - 01/23/2002 FY01: \$152,587 Total: \$429,377
Prin. Invest.: N APPLICABLE
Tech. Officer: GSFC/D L CARTER
CASE Category: 32 - GEOLOGICAL SCIENCE

RUSSIA

NCC 1 353 ALL RUSSIAN SCI RES INST VIAM 9830
 EVALUATION OF LIGHTWEIGHT ALLOYS & ADVANCED MATERIALS PROC-
 ESSING FOR AIRFRAMS & SPACE VEHICLE
 01/13/2000 - 11/30/2001 FY01: \$67,000 Total: \$222,000
Prin. Invest.: J FRIDLANDER
Tech. Officer: LARC/R K BIRD
CASE Category: 47 - METAL & MATERIALS ENGR

NCC 1 01005 MOSCOW INST OF PHYSICS & TECHNOLOGY 9831
 INVEST A/C WAKE MOD 4 MITIGATN/REDUCTN OF HARMFUL ATMOSPH
 EFFECTS SUBSONIC/SUPRSONIC A/C ENGINE EXH
 09/20/2001 - 09/19/2004 FY01: \$100,000 Total: \$100,000
Prin. Invest.: M L KOGAN, W L GROSS
Tech. Officer: LARC/W L GROSS, LARC/R S ECKMAN
CASE Category: 31 - ATMOSPHERIC SCIENCE

NASA'S UNIVERSITY PROGRAM APPENDIX CROSS INDEX BY FIELD OF SCIENCE AND ENGINEERING

The fields used here are specified by Amendment J, "Standard Classification of Fields of Science and Engineering," to Office of Management and Budget (OMB) Circular A-46, "Standards for Statistical Surveys." Field codes are interpreted as follows:

<p><i>PHYSICAL SCIENCES</i></p> <p>11 ASTRONOMY 12 CHEMISTRY 13 PHYSICS 19 PHYSICAL SCIENCES, NEC*</p>	<p><i>ENVIRONMENTAL SCIENCES</i> (Terrestrial and extraterrestrial)</p> <p>31 ATMOSPHERIC SCIENCES 32 GEOLOGICAL SCIENCES 33 OCEANOGRAPHY 39 ENVIRONMENTAL SCIENCES, NEC*</p>	<p><i>LIFE SCIENCES</i></p> <p>51 BIOLOGICAL SCIENCES 54 ENVIRONMENTAL BIOLOGY 55 AGRICULTURAL SCIENCES 56 MEDICAL SCIENCES 59 LIFE SCIENCES, NEC*</p>	<p><i>SOCIAL SCIENCES</i></p> <p>71 ANTHROPOLOGY 72 ECONOMICS 73 HISTORY 74 LINGUISTICS 75 POLITICAL SCIENCE 76 SOCIOLOGY 79 SOCIAL SCIENCE, NEC*</p>
<p><i>MATHEMATICAL/ COMPUTER SCIENCE</i></p> <p>21 MATHEMATICS 22 COMPUTER SCIENCES 29 MATHEMATICAL COMPUTER SCIENCES, NEC*</p>	<p><i>ENGINEERING</i></p> <p>41 AERONAUTICAL 42 ASTRONAUTICAL 43 CHEMICAL 44 CIVIL 45 ELECTRICAL 46 MECHANICAL 47 METALLURGY AND MATERIALS 49 ENGINEERING, NEC*</p>	<p><i>PSYCHOLOGY</i></p> <p>61 BIOLOGICAL 62 SOCIAL SCIENCES 69 PSYCHOLOGY, NEC*</p>	<p><i>OTHER SCIENCES**</i></p> <p>99 ALL DISCIPLINE(S)</p>

* Not elsewhere classified (For interdisciplinary projects and others not listed by discipline name)
** For interdisciplinary projects which cannot be classified within any of the preceding main fields

Abbreviations used in the *Technical Officer Location* column are discussed in the prefatory pages.

11	ARIZONA STATE UNIV	D BOGAN	GSFC	R GREELY	NAG 5 8897	21
11	ARIZONA STATE UNIV	D BOGAN	GSFC	S A FAGENTS	NAG 5 8898	21
11	ARIZONA STATE UNIV	D K WEST	GSFC	M POLITANO	NAG 5 8481	21
11	ARIZONA STATE UNIV	D K WEST	GSFC	S G STARRFIELD	NAG 5 8278	20
11	ARIZONA STATE UNIV	D K WEST	GSFC	S STARRFIELD	NAG 5 6741	20
11	ARIZONA STATE UNIV	D NAVA	GSFC	T G SHARP	NAG 5 9381	21
11	ARIZONA STATE UNIV	D SENSKA	GSFC	R GREELY	NAG 5 10460	22
11	ARIZONA STATE UNIV	G SONNEBORN	GSFC	A P COWLEY	NAG 5 8805	21
11	ARIZONA STATE UNIV	G SONNEBORN	GSFC	J B HOLBERG	NAG 5 10316	22
11	ARIZONA STATE UNIV	G SONNEBORN	GSFC	S G STARRFIELD	NAG 5 9395	21
11	ARIZONA STATE UNIV	J BOYCE	GSFC	D R HUSS	NAG 5 8173	20
11	ARIZONA STATE UNIV	J BOYCE	GSFC	D WYCKOFF	NAG 5 4280	20
11	ARIZONA STATE UNIV	J BOYCE	GSFC	G HUSS	NAG 5 10449	22
11	ARIZONA STATE UNIV	J BOYCE	GSFC	L A LESHIN	NAG 5 8286	21
11	ARIZONA STATE UNIV	J BOYCE	GSFC	P R BUSECK	NAG 5 9352	21
11	ARIZONA STATE UNIV	J BOYCE	GSFC	P R CHRISTIANSON	NAG 5 10310	22
11	ARIZONA STATE UNIV	J BOYCE	GSFC	R GREELEY	NAG 5 8721	21
11	ARIZONA STATE UNIV	J BOYCE	GSFC	R GREELY	NAG 5 9773	22
11	ARIZONA STATE UNIV	J BOYCE	GSFC	S WYCKOFF	NAG 5 10077	22
11	ARIZONA STATE UNIV	J BOYCE	HQ	D A LESHIN	NAG 5 7640	20
11	ARIZONA STATE UNIV	J BOYCE	HQ	D R HUSS	NAG 5 8158	20
11	ARIZONA STATE UNIV	J BOYCE	HQ	L LESHIN	NAG 5 7540	20
11	ARIZONA STATE UNIV	J BOYCE	HQ	P A WEHINGER	NAG 5 7199	20
11	ARIZONA STATE UNIV	J BOYCE	HQ	R GREELEY	NAG 5 8453	21
11	ARIZONA STATE UNIV	J BOYCE	HQ	T G SHARP	NAG 5 7285	20
11	ARIZONA STATE UNIV	J GRANT	GSFC	R GREELEY	NAG 5 8948	21
11	ARIZONA STATE UNIV	J M BOYCE	GSFC	S FAGENTS	NAG 5 11199	22
11	ARIZONA STATE UNIV	J M BOYCE	GSFC	S WYCKOFF	NAG 5 10753	22
11	ARIZONA STATE UNIV	R OLIVERSEN	GSFC	S STARRFIELD	NAG 5 9263	21
11	AUBURN UNIV	D BRUNNER	GSFC	H W BRANDHORST	NCC 5 459	3
11	AUBURN UNIV	D EVANS	GSFC	D LIN	NAG 5 8081	3
11	BLOOMSBURG UNIV	J GRANT	GSFC	M K SHEPARD	NAG 5 7964	435
11	BOSTON COLLEGE	R J OLIVERSEN	GSFC	S J CAREY	NAG 5 10824	276
11	BOSTON UNIV	D K WEST	GSFC	A P MARSCHE	NAG 5 3839	277
11	BOSTON UNIV	D WEST	GSFC	J R MATTOX	NAG 5 3384	276
11	BOSTON UNIV	H HASAN	GSFC	D CHAKRABARTI	NAG 5 3999	277

FIELD CODE	INSTITUTION	TECHNICAL OFFICER	TECH OFF LOC.	FIRST PRINCIPAL INVESTIGATOR	AGREEMENT NUMBER	PAGE NUM.
11	BOSTON UNIV	J BREDEKAMP	GSFC	J D SULLIVAN	NAG 5 8147	278
11	BOSTON UNIV	J LING	GSFC	N CROOKER	NAG 5 6658	277
11	BOSTON UNIV	J M BOYCE	GSFC	M MENDILLO	NAG 5 11077	279
11	BOSTON UNIV	J R BYRD	GSFC	P CHAKRABARTI	NAG 5 10801	279
11	BOSTON UNIV	J SWANK	GSFC	A MARSCHER	NAG 5 7331	277
11	BOSTON UNIV	L CHRISTENSEN	GSFC	N U CROOKER	NAG 5 7049	277
11	BOSTON UNIV	L KALUZIENSKI	GSFC	T BRAINERD	NAG 5 8756	278
11	BOSTON UNIV	R BEEBE	GSFC	D A YOUNG	NAG 5 7861	278
11	BOSTON UNIV	R BEEBE	GSFC	M MENDILLO	NAG 5 6755	277
11	BOSTON UNIV	R J OLIVERSEN	GSFC	J M JACKSON	NAG 5 10808	279
11	BOSTON UNIV	R OLIVERSEN	GSFC	A MARSCHER	NAG 5 9161	278
11	BOSTON UNIV	T MORGAN	GSFC	J BAUMGARDNER	NAG 5 10496	279
11	BOSTON UNIV	T MORGAN	GSFC	M MENDILLO	NAG 5 8012	278
11	BOWIE STATE UNIV	J TILTON	GSFC	M MAREBOYANA	NAG 5 2829	239
11	BROWN UNIV	B CAMPBELL	GSFC	P H SCHULTZ	NAG 5 7082	458
11	BROWN UNIV	C STAHL	GSFC	G SEIDEL	NAG 5 10383	459
11	BROWN UNIV	D BOGAN	GSFC	D T PAPPALARDO	NAG 5 8046	458
11	BROWN UNIV	D NAVA	GSFC	M J RUTHERFRD	NAG 5 9522	458
11	BROWN UNIV	D SENSKE	GSFC	J HEAD	NAG 5 10690	459
11	BROWN UNIV	D SENSKE	GSFC	P H SCHULTZ	NAG 5 10188	459
11	BROWN UNIV	G STRINGFELLOW	GSFC	G TUCKER	NAG 5 9453	458
11	BROWN UNIV	J BOYCE	GSFC	C M PIETERS	NAG 5 10010	459
11	BROWN UNIV	J BOYCE	GSFC	D C HESS	NAG 5 8174	458
11	BROWN UNIV	J BOYCE	GSFC	D M PIETERS	NAG 5 8302	458
11	BROWN UNIV	J BOYCE	GSFC	J F MUSTARD	NAG 5 9589	458
11	BROWN UNIV	J BOYCE	GSFC	J W HEAD III	NAG 5 10031	459
11	BROWN UNIV	J BOYCE	HQ	J W HEAD	NAG 5 8283	458
11	BROWN UNIV	J BOYCE	HQ	M J RUTHERFORD	NAG 5 8181	458
11	BROWN UNIV	J M BOYCE	GSFC	J HEAD	NAG 5 10573	459
11	BROWN UNIV	L SMITH	GSFC	P H SCHULTZ	NGT 5 50166	460
11	BROWN UNIV	M MEYER	GSFC	Y HUANG	NAG 5 10665	459
11	BROWN UNIV	R BEEBE	GSFC	D T PAPPALARDO	NAG 5 7866	458
11	BROWN UNIV	R BEEBE	GSFC	D W HEAD	NAG 5 8144	458
11	CALIFORNIA INST OF TECH	A NURRIDIN	HQ	S G DJORGOVSKI	NGT 5 50215	49
11	CALIFORNIA INST OF TECH	B A MERRITT	GSFC	S BOGGS	NAG 5 5286	43
11	CALIFORNIA INST OF TECH	B BETTS	GSFC	J KIRSCHVINK	NAG 5 10410	47
11	CALIFORNIA INST OF TECH	B CAMPBELL	GSFC	J BEAUCHAMP	NAG 5 7081	44
11	CALIFORNIA INST OF TECH	B WORRALL	GSFC	E STONE	NAG 5 6912	44
11	CALIFORNIA INST OF TECH	D K WEST	GSFC	B T SOIFER	NAG 5 3560	42
11	CALIFORNIA INST OF TECH	D K WEST	GSFC	E PHINNEY	NAG 5 7034	44
11	CALIFORNIA INST OF TECH	D K WEST	GSFC	J M CARPENTER	NAG 5 8217	45
11	CALIFORNIA INST OF TECH	D K WEST	GSFC	P M GOLDRICH	NAG 5 7008	44
11	CALIFORNIA INST OF TECH	D K WEST	GSFC	R BLANDFORD	NAG 5 7007	44
11	CALIFORNIA INST OF TECH	D K WEST	GSFC	S KULKARNI	NAG 5 6402	44
11	CALIFORNIA INST OF TECH	D NAVA	GSFC	D M STOLPER	NAG 5 4318	43
11	CALIFORNIA INST OF TECH	D NAVA	GSFC	D S BURNETT	NAG 5 4319	43
11	CALIFORNIA INST OF TECH	D SENSKE	GSFC	T AHRENS	NAG 5 10208	47
11	CALIFORNIA INST OF TECH	D VEANS	GSFC	M E BROWN	NAG 5 8463	45
11	CALIFORNIA INST OF TECH	D WEST	GSFC	T A PRINCE	NAG 5 3239	42
11	CALIFORNIA INST OF TECH	E J WOLLACK	GSFC	A E LANGE	NAG 5 10317	47
11	CALIFORNIA INST OF TECH	F A HERRERO	GSFC	S BOGGS	NAG 5 8743	45
11	CALIFORNIA INST OF TECH	F SNOW	GSFC	C MARTIN	NAG 5 98034	49
11	CALIFORNIA INST OF TECH	G STRINGFELLOW	GSFC	A LANGE	NAG 5 9344	46
11	CALIFORNIA INST OF TECH	G STRINGFELLOW	GSFC	A LANGE	NAG 5 9856	46
11	CALIFORNIA INST OF TECH	G STRINGFELLOW	GSFC	P A BLAKE	NAG 5 4692	43
11	CALIFORNIA INST OF TECH	H HASAN	GSFC	K THORNE	NAG 5 6840	44
11	CALIFORNIA INST OF TECH	H HASAN	GSFC	P A BLAKE	NAG 5 4097	42
11	CALIFORNIA INST OF TECH	H THRONSON	GSFC	D E LANGE	NAG 5 6573	44
11	CALIFORNIA INST OF TECH	H THRONSON	GSFC	D SERABYN	NAG 5 4196	42
11	CALIFORNIA INST OF TECH	J A GRANT	GSFC	T AHRENS	NAG 5 8915	45
11	CALIFORNIA INST OF TECH	J A GRANT	GSFC	T J AHRENS	NAG 5 8907	45
11	CALIFORNIA INST OF TECH	J BOYCE	GSFC	A INGERSOLL	NAG 5 11288	48
11	CALIFORNIA INST OF TECH	J BOYCE	GSFC	A P INGERSOLL	NAG 5 9601	46
11	CALIFORNIA INST OF TECH	J BOYCE	GSFC	B C MURRAY	NAG 5 9606	46
11	CALIFORNIA INST OF TECH	J BOYCE	GSFC	D A PAPANASTASSIOU	NAG 5 8251	45
11	CALIFORNIA INST OF TECH	J BOYCE	GSFC	D I SARGENT	NAG 5 4599	43

FIELD CODE	INSTITUTION	TECHNICAL OFFICER	TECH OFF LOC.	FIRST PRINCIPAL INVESTIGATOR	AGREEMENT NUMBER	PAGE NUM.
11	CALIFORNIA INST OF TECH	J BOYCE	GSFC	D STEVENSON	NAG 5 10602	47
11	CALIFORNIA INST OF TECH	J BOYCE	GSFC	G A BLAKE	NAG 5 9434	46
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11	CALIFORNIA INST OF TECH	J BOYCE	HQ	P LINDBLOM	NAG 5 4093	42
11	CALIFORNIA INST OF TECH	J M BOYCE	GSFC	D STEVENSON	NAG 5 10587	47
11	CALIFORNIA INST OF TECH	J M BOYCE	GSFC	S KULKARNI	NAG 5 10558	47
11	CALIFORNIA INST OF TECH	J R BYRD	GSFC	D A MEWALDT	NAG 5 10804	48
11	CALIFORNIA INST OF TECH	M MEYER	GSFC	J L KIRSCHVINK	NAG 5 10618	47
11	CALIFORNIA INST OF TECH	R BEEBE	GSFC	D P INGERSOLL	NAG 5 8049	45
11	CALIFORNIA INST OF TECH	R F MUSHOTZKY	GSFC	F WALTER	NAG 5 9919	46
11	CALIFORNIA INST OF TECH	R F MUSHOTZKY	GSFC	L M LUBIN	NAG 5 9920	46
11	CALIFORNIA INST OF TECH	R H PLESS	GSFC	C MARTIN	NAG 5 5052	43
11	CALIFORNIA INST OF TECH	R J OLIVERSEN	GSFC	D THOMPSON	NAG 5 10955	48
11	CALIFORNIA INST OF TECH	R J OLIVERSEN	GSFC	E PHINNEY	NAG 5 10707	48
11	CALIFORNIA INST OF TECH	R J OLIVERSEN	GSFC	M P KAMIONKOWSKI	NAG 5 9821	46
11	CALIFORNIA INST OF TECH	R J OLIVERSEN	GSFC	R J BRUNNER	NAG 5 10885	48
11	CALIFORNIA INST OF TECH	R MUSHOTZKY	GSFC	F A HARRISON	NAG 5 10047	47
11	CALIFORNIA INST OF TECH	T MORGAN	GSFC	E SERABYN	NAG 5 6816	44
11	CALIFORNIA INST OF TECH	W J WAGNER	GSFC	D G LIBBRECHT	NAG 5 6173	44
11	CALIFORNIA INST OF TECH	W WAGNER	GSFC	I SACKMANN	NAG 5 7166	44
11	CALIFORNIA STATE UNIV - FULLERTON	G SONNEBORN	GSFC	K CHEN	NAG 5 10312	51
11	CALIFORNIA STATE UNIV - FULLERTON	J BOYCE	GSFC	D WOODLUM	NAG 5 9433	51
11	CALIFORNIA STATE UNIV - FULLERTON	J BOYCE	GSFC	D WOOLUM	NAG 5 4945	51
11	CALIFORNIA STATE UNIV - FULLERTON	J BOYCE	GSFC	D WOOLUM	NAG 5 10695	51
11	CALIFORNIA STATE UNIV - LOS ANGELES	D BOGAN	GSFC	K KHURANA	NAG 5 8945	52
11	CALIFORNIA STATE UNIV - NORTHRIDGE	J E ALLEN	GSFC	M J PENN	NCC 5 381	53
11	CALIFORNIA STATE UNIV - NORTHRIDGE	J SHARBER	GSFC	D A CHAPMAN	NAG 5 7778	52
11	CALIFORNIA STATE UNIV - NORTHRIDGE	W J WAGNER	GSFC	G A CHAPMAN	NAG 5 4973	52
11	CALIFORNIA STATE UNIV - NORTHRIDGE	W WAGNER	GSFC	G A CHAPMAN	NAG 5 7191	52
11	CARNEGIE - MELLON UNIV	B H HANKS	GSFC	T KANADE	NCC 5 223	439
11	CARNEGIE - MELLON UNIV	D K WEST	GSFC	A K ROMER	NAG 5 7926	437
11	CARNEGIE - MELLON UNIV	D K WEST	GSFC	R E GRIFFITHS	NAG 5 7898	437
11	CARNEGIE - MELLON UNIV	D LAVERY	GSFC	W WHITTAKER	NAG 5 7707	436
11	CARNEGIE - MELLON UNIV	D MACHI	GSFC	D GRIFFITHS	NAG 5 3651	436
11	CARNEGIE - MELLON UNIV	D WEST	GSFC	R NICHOL	NAG 5 6548	436
11	CARNEGIE - MELLON UNIV	L SMITH	GSFC	W WHITTAKER	NGT 5 50248	439
11	CARNEGIE - MELLON UNIV	N WHITE	GSFC	R E GRIFFITHS	NAG 5 9902	437
11	CARNEGIE - MELLON UNIV	P M ATKINS	GSFC	A F PTAK	NAG 5 9922	437
11	CARNEGIE - MELLON UNIV	R F MUSHOTZKY	GSFC	A ROMER	NAG 5 9899	437
11	CARNEGIE - MELLON UNIV	R J OLIVERSEN	GSFC	T MIYAJI	NAG 5 10875	437
11	CARNEGIE - MELLON UNIV	R MUSHOTZKY	GSFC	A F PTAK	NAG 5 10170	437
11	CARNEGIE - MELLON UNIV	R MUSHOTZKY	GSFC	R C NICHOL	NAG 5 10014	437
11	CARNEGIE - MELLON UNIV	R MUSHOTZKY	GSFC	T MIYAJI	NAG 5 10043	437
11	CASE WESTERN RESERVE UNIV	D K WEST	GSFC	C MIHOS	NAG 5 7019	407
11	CASE WESTERN RESERVE UNIV	J BOYCE	GSFC	R HARVEY	NAG 5 11122	407
11	CASE WESTERN RESERVE UNIV	J BOYCE	HQ	R HARVEY	NAG 5 6715	407
11	CHRISTOPHER NEWPORT UNIV	D STARR	GSFC	N POUGATCHEV	NAG 5 6503	507
11	CITY UNIV COLL OF NY YORK COLLEGE	P SAKIMOTO	GSFC	M SPERGEL	NAG 5 10152	367
11	CLAREMONT MCKENNA COLLEGE	M C GUHATHAKURTA	GSFC	D C HIGDON	NAG 5 8017	53
11	CLARK ATLANTA UNIV	R BEEBE	GSFC	S TAYAL	NAG 5 6889	180
11	CLEMSON UNIV - CLEMSON	D F NAVA	GSFC	D S MEYER	NAG 5 4703	462
11	CLEMSON UNIV - CLEMSON	J BOYCE	HQ	D D CLAYTON	NAG 5 8448	462
11	CLEMSON UNIV - CLEMSON	J P NORRIS	GSFC	L THE	NAG 5 9702	463
11	CLEMSON UNIV - CLEMSON	J P NORRIS	GSFC	M D LEISING	NAG 5 3699	461
11	CLEMSON UNIV - CLEMSON	J P NORRIS	GSFC	M D LEISING	NAG 5 8075	462
11	CLEMSON UNIV - CLEMSON	N GEHRELS	GSFC	D HARTMANN	NAG 5 9802	463
11	CLEMSON UNIV - CLEMSON	R J OLIVERSEN	GSFC	M D LEISING	NAG 5 10764	463
11	COLLEGE OF CHARLESTON	G SONNEBORN	GSFC	J E NEFF	NAG 5 10313	464

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11	COLLEGE OF CHARLESTON	J BOYCE	GSFC	C R COOMBS	NAG 5 7183	464
11	COLLEGE OF CHARLESTON	J M BOYCE	GSFC	C RUNYON	NAG 5 10633	464
11	COLLEGE OF CHARLESTON	J ROSENTHAL	GSFC	M COLGAN	NCC 5 263	464
11	COLLEGE OF CHARLESTON	R J OLIVERSEN	GSFC	T W GIBLIN	NAG 5 11017	464
11	COLLEGE OF WOOSTER	G SONNEBORN	GSFC	B BOROSON	NAG 5 10396	412
11	COLLEGE OF WOOSTER	K HARTNETT	GSFC	B BOROSON	NAG 5 10233	412
11	COLORADO SCH OF MINES	J BOYCE	GSFC	M B DUKE	NAG 5 9684	119
11	COLUMBIA UNIV	B A MERRITT	GSFC	E APRILE	NAG 5 5280	370
11	COLUMBIA UNIV	C ROSENZWEIG	GSFC	M CANE	NAG 5 4058	369
11	COLUMBIA UNIV	D F MUSHOTZKY	GSFC	F B PAERLES	NAG 5 9929	373
11	COLUMBIA UNIV	D F MUTSHOTZKY	GSFC	D J HELFAND	NAG 5 9928	373
11	COLUMBIA UNIV	D K WEST	GSFC	A P CROTTS	NAG 5 3502	369
11	COLUMBIA UNIV	D K WEST	GSFC	D HELFAND	NAG 5 6035	370
11	COLUMBIA UNIV	D K WEST	GSFC	E V GOTTHELF	NAG 5 7935	371
11	COLUMBIA UNIV	D K WEST	GSFC	J O PATTERSON	NAG 5 7977	371
11	COLUMBIA UNIV	D K WEST	GSFC	J P HALPERN	NAG 5 7814	371
11	COLUMBIA UNIV	D K WEST	GSFC	K M LEIGHLY	NAG 5 7971	371
11	COLUMBIA UNIV	D NAVA	GSFC	D LONGHI	NAG 5 4649	370
11	COLUMBIA UNIV	J P NORRIS	GSFC	U OBERLACK	NAG 5 7846	371
11	COLUMBIA UNIV	J P NORRIS	GSFC	U OBERLACK	NAG 5 9653	372
11	COLUMBIA UNIV	J SWANK	GSFC	E GOTTHELF	NAG 5 7740	371
11	COLUMBIA UNIV	N E WHITE	GSFC	S M KAHN	NAG 5 7737	371
11	COLUMBIA UNIV	P ATKINS	GSFC	D HELFAND	NAG 5 9870	372
11	COLUMBIA UNIV	R F MUSHOTZKY	GSFC	D J HELFAND	NAG 5 9946	373
11	COLUMBIA UNIV	R F MUSHOTZKY	GSFC	F B PAERELS	NAG 5 9898	372
11	COLUMBIA UNIV	R J OLIVERSEN	GSFC	E V GOTTHELF	NAG 5 9136	372
11	COLUMBIA UNIV	R J OLIVERSEN	GSFC	J P HALPERN	NAG 5 9094	372
11	COLUMBIA UNIV	R J OLIVERSEN	GSFC	J P HALPERN	NAG 5 9095	372
11	COLUMBIA UNIV	R J OLIVERSEN	GSFC	M P KAMIONKOWSKI	NAG 5 8506	371
11	COLUMBIA UNIV	R M MUSHOTZKY	GSFC	E V GOTTHELF	NAG 5 9911	373
11	COLUMBIA UNIV	R MUSHOTZKY	GSFC	C A SCHARF	NAG 5 10082	373
11	COLUMBIA UNIV	R MUSHOTZKY	GSFC	J P HALPERN	NAG 5 9950	373
11	CORNELL UNIV	A CARRO	GSFC	D VEVERKA	NAG 5 8067	377
11	CORNELL UNIV	D B JARRETT	HQ	J F VEVERKA	NASW 00005	380
11	CORNELL UNIV	D K WEST	GSFC	D LAI	NAG 5 8484	378
11	CORNELL UNIV	D K WEST	GSFC	S TUEKOLSKY	NAG 5 7264	377
11	CORNELL UNIV	D K WEST	GSFC	T J LOREDO	NAG 5 3427	376
11	CORNELL UNIV	D SENSKE	GSFC	B E CLARK	NAG 5 10289	379
11	CORNELL UNIV	D SENSKE	GSFC	J F BELL	NAG 5 10636	379
11	CORNELL UNIV	D SENSKE	GSFC	J VEVERKA	NAG 5 10434	379
11	CORNELL UNIV	D SENSKE	GSFC	P NICHOLSON	NAG 5 10438	379
11	CORNELL UNIV	F M FLASAR	GSFC	B J CONRATH	NCC 5 375	381
11	CORNELL UNIV	F M FLASAR	GSFC	P J GIERASCH	NCC 5 322	381
11	CORNELL UNIV	F M FLASAR	GSFC	P J GIERASCH	NCC 5 539	381
11	CORNELL UNIV	G MUCKLOW	GSFC	G J STACEY	NAG 5 8673	378
11	CORNELL UNIV	G STRINGFELLOW	GSFC	D L HERTER	NAG 5 6495	377
11	CORNELL UNIV	J BERGSTRALH	GSFC	D J GIERABCH	NAG 5 3862	376
11	CORNELL UNIV	J BOYCE	GSFC	J F BELL	NAG 5 9774	379
11	CORNELL UNIV	J BOYCE	GSFC	P GIERASCH	NAG 5 10579	379
11	CORNELL UNIV	J BOYCE	GSFC	R LOVELACE	NAG 5 9735	379
11	CORNELL UNIV	J BOYCE	GSFC	R O POHL	NAG 5 10584	379
11	CORNELL UNIV	J BOYCE	GSFC	R V LOVELACE	NAG 5 10559	379
11	CORNELL UNIV	J BOYCE	HQ	D F CHERNOFF	NAG 5 8356	378
11	CORNELL UNIV	J BOYCE	HQ	D J BANDFIELD	NAG 5 8282	378
11	CORNELL UNIV	J BOYCE	HQ	R O POHL	NAG 5 7508	377
11	CORNELL UNIV	J GRANT	GSFC	D E CLARK	NAG 5 7892	377
11	CORNELL UNIV	J M BOYCE	GSFC	B CONRATH	NAG 5 10580	379
11	CORNELL UNIV	J M BOYCE	GSFC	R SULLIVAN	NAG 5 10574	379
11	CORNELL UNIV	J PNORRIS	GSFC	I M WASSERMAN	NAG 5 3800	376
11	CORNELL UNIV	J T BERGSTRALH	HQ	J R HOUCK	NASW 99008	380
11	CORNELL UNIV	J W POE	MSFC	J M PARPIA	NAG 8 1438	380
11	CORNELL UNIV	L D DEMING	GSFC	J HARRINGTON	NAG 5 7373	377
11	CORNELL UNIV	L D DEMING	GSFC	J HARRINGTON	NAG 5 9594	378
11	CORNELL UNIV	P CRANE	GSFC	A SIEVERS	NAG 5 9140	378
11	CORNELL UNIV	R BEEBE	GSFC	D HARRINGTON	NAG 5 7965	377
11	CORNELL UNIV	R BEEBE	GSFC	D J GIERASCH	NAG 5 7864	377

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11	CORNELL UNIV	R OLIVERSEN	GSFC	R LOVELACE	NAG 5 9047	378
11	CORNELL UNIV	T H MORGAN	GSFC	W BOTTKE	NAG 5 9082	378
11	CORNELL UNIV	T MORGAN	GSFC	D BANFIELD	NAG 5 7919	377
11	CORNELL UNIV	T MORGAN	GSFC	D S HOWELL	NAG 5 8070	377
11	DARTMOUTH COLLEGE	D EVANS	GSFC	B U SONNERUP	NAG 5 7185	344
11	DARTMOUTH COLLEGE	D EVANS	GSFC	M K HUDSON	NAG 5 7689	344
11	DARTMOUTH COLLEGE	L ZANETTI	GSFC	M K HUDSON	NGT 5 95	345
11	DARTMOUTH COLLEGE	R OLIVERSEN	GSFC	B CHABOYER	NAG 5 9225	344
11	DARTMOUTH COLLEGE	R PETRE	GSFC	J THORSTENSEN	NAG 5 3212	343
11	DEPAUL UNIV	J ROSENDHAL	GSFC	C C NARASIMHAN	NCC 5 272	200
11	DINE COLLEGE	P SAKIMOTO	GSFC	S SEMKEN	NAG 5 10254	24
11	DRAKE UNIV	D K WEST	GSFC	A MARSTON	NAG 5 6854	222
11	DREXEL UNIV	D K WEST	GSFC	S L MCMILLAN	NAG 5 6964	440
11	DREXEL UNIV	J CENTRELLA	GSFC	M VALLIERES	NAG 5 11119	440
11	DREXEL UNIV	R J OLIVERSEN	GSFC	S L MCMILLAN	NAG 5 10775	440
11	DREXEL UNIV	R OLIVERSEN	GSFC	S MCMILLAN	NAG 5 9264	440
11	EAST TENNESSEE STATE UNIV	G SONNEBORN	GSFC	D G LUTTERMOSE	NAG 5 10344	467
11	EASTERN NEW MEX. UNIV - MAIN CAMP.	P SAKIMOTO	GSFC	S NUTTER	NAG 5 10150	360
11	FAIRFIELD UNIV	G MUCKLOW	GSFC	N HAEGEL	NAG 5 8650	144
11	FLA INTERNATIONAL UNIV	R HARTLE	GSFC	K HARDY	NAG 5 3826	162
11	FLORIDA A&M UNIV	P SAKIMOTO	GSFC	C A WEATHERFORD	NAG 5 10148	164
11	FLORIDA INST OF TECH	D WEST	GSFC	M A WOOD	NAG 5 3103	165
11	FLORIDA INST OF TECH	R J OLIVERSEN	GSFC	M ZHANG	NAG 5 10888	165
11	FLORIDA STATE UNIV	J BOYCE	HQ	J C CAIN	NAG 5 8284	167
11	FLORIDA STATE UNIV	M MEYER	GSFC	I FRIEDMAN	NAG 5 9845	168
11	FRANKLIN-MARSHALL COLLEGE	D K WEST	GSFC	D BACKMAN	NAG 5 6858	441
11	GEORGE MASON UNIV	D K WEST	GSFC	J WALLIN	NAG 5 8834	509
11	GEORGE MASON UNIV	D K WEST	GSFC	L OZNEROY	NAG 5 7065	509
11	GEORGE MASON UNIV	M MCCUMBER	GSFC	M KAFATOS	NCC 5 555	510
11	GEORGE MASON UNIV	R J OLIVERSEN	GSFC	L OZNEROY	NAG 5 10776	510
11	GEORGE MASON UNIV	R J OLIVERSEN	GSFC	R M SAMBRUNA	NAG 5 10073	509
11	GEORGE MASON UNIV	R J OLIVERSEN	GSFC	R M SAMBRUNA	NAG 5 10243	509
11	GEORGE MASON UNIV	R J OLIVERSEN	GSFC	R M SAMBRUNA	NAG 5 10244	510
11	GEORGE MASON UNIV	R J OLIVERSEN	GSFC	R M SAMBRUNA	NAG 5 10708	510
11	GEORGE MASON UNIV	R MUSHOTZKY	GSFC	R M SAMBRUNA	NAG 5 10038	509
11	GEORGE MASON UNIV	S KEMPLER	GSFC	M KAFATOS	NCC 5 143	510
11	GEORGE WASHINGTON UNIV	J BOYCE	GSFC	G M KEATING	NAG 5 8287	152
11	GEORGE WASHINGTON UNIV	R BEEBE	GSFC	D A LEVIN	NAG 5 8068	152
11	GEORGIA INST OF TECH	J BOYCE	HQ	D P BRADLEY	NAG 5 7450	184
11	GEORGIA INST OF TECH	J M BOYCE	GSFC	J BRADLEY	NAG 5 10632	184
11	GEORGIA STATE UNIV	D K WEST	GSFC	D GIES	NAG 5 6904	188
11	GEORGIA STATE UNIV	H HASAN	GSFC	S T MANSON	NAG 5 7752	188
11	GEORGIA STATE UNIV	H THRONSON	GSFC	D PERERA	NAG 5 4950	188
11	GRAMBLING STATE UNIV	B PENN	MSFC	C WALTON	NAG 8 1392	233
11	HAMPTON UNIV	J R BYRD	GSFC	D M RUSSELL	NAG 5 10796	512
11	HAMPTON UNIV	P SAKIMOTO	GSFC	S M BAILEY	NAG 5 10163	512
11	HARVARD UNIV	D K WEST	GSFC	L E HERNQUIST	NAG 5 8727	284
11	HARVARD UNIV	D NAVA	GSFC	D B JACOBSEN	NAG 5 4720	283
11	HARVARD UNIV	D NAVA	GSFC	D G AGEE	NAG 5 4713	283
11	HARVARD UNIV	D RIND	GSFC	D JACOB	NAG 5 3553	283
11	HARVARD UNIV	E SMITH	GSFC	R KIRSHNER	NAG 5 7768	284
11	HARVARD UNIV	G SONNEBORN	GSFC	J C RAYMOND	NAG 5 9019	284
11	HARVARD UNIV	H HASAN	GSFC	W H PARKINSON	NAG 5 4348	283
11	HARVARD UNIV	H THRONSON	GSFC	P NAHUM	NAG 5 4522	283
11	HARVARD UNIV	J BERGSTRALH	GSFC	D X SASSELOV	NAG 5 4216	283
11	HARVARD UNIV	J BOYCE	GSFC	A W CAMERON	NAG 5 8467	284
11	HARVARD UNIV	J BOYCE	GSFC	D B JACOBSEN	NAG 5 4430	283
11	HARVARD UNIV	J BOYCE	GSFC	S B JACOBSEN	NAG 5 9571	284
11	HARVARD UNIV	J BOYCE	HQ	D SISTERTON	NAG 5 4302	283
11	HARVARD UNIV	M MEYER	GSFC	H D HOLLAND	NAG 5 10631	285
11	HARVARD UNIV	R BEEBE	GSFC	W H PARKINSON	NAG 5 7859	284
11	HARVARD UNIV	R J OLIVERSEN	GSFC	A LOEB	NAG 5 7039	283
11	HARVARD UNIV	R J OLIVERSEN	GSFC	R NARAYAN	NAG 5 10780	285
11	HARVARD UNIV	R MUSHOTZKY	GSFC	J E GRINDLAY	NAG 5 10040	284
11	HARVARD UNIV	R MUSHOTZKY	GSFC	J E GRINDLAY	NAG 5 10046	284

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11	HAVERFORD COLLEGE	R J OLIVERSEN	GSFC	S P BOUGHN	NAG 5 9285	441
11	HOWARD UNIV	R BEEBE	GSFC	J HALPERN	NAG 5 6835	154
11	INDIANA UNIV - BLOOMINGTON	B MERRIT	WFF	J MUSSER	NAG 5 5224	215
11	INDIANA UNIV - BLOOMINGTON	D WEST	GSFC	STEIMAN-CAMERON	NAG 5 6773	215
11	INDIANA UNIV - BLOOMINGTON	G SONNEBORN	GSFC	S SHORE	NAG 5 9236	215
11	INDIANA UNIV - BLOOMINGTON	J BOYCE	GSFC	A BASU	NAG 5 9369	215
11	INDIANA UNIV - BLOOMINGTON	J BOYCE	GSFC	D H DURISEN	NAG 5 4295	215
11	IOWA STATE UNIV	D K WEST	GSFC	S D KAWALER	NAG 5 8352	223
11	IOWA STATE UNIV	J GRANT	GSFC	D J SCHEERES	NAG 5 7756	223
11	IOWA STATE UNIV	J SWANK	GSFC	M A CATANESE	NAG 5 7070	222
11	IOWA STATE UNIV	J SWANK	GSFC	M A CATANESE	NAG 5 7423	223
11	IOWA STATE UNIV	W WAGNER	GSFC	L A WILLSON	NAG 5 8465	223
11	JOHNS HOPKINS UNIV	B BETTS	GSFC	R L MCNUTT	NAG 5 8516	244
11	JOHNS HOPKINS UNIV	B BETTS	GSFC	R W MCENTIRE	NAG 5 9719	247
11	JOHNS HOPKINS UNIV	B BETTS	GSFC	W BRINCKERHOFF	NAG 5 10693	249
11	JOHNS HOPKINS UNIV	BCAMPBELL	GSFC	A F CHENG	NAG 5 7080	243
11	JOHNS HOPKINS UNIV	D CLING	GSFC	D M RUST	NAG 5 7921	244
11	JOHNS HOPKINS UNIV	D EVANS	GSFC	D G SIBECK	NAG 5 7920	243
11	JOHNS HOPKINS UNIV	D EVANS	GSFC	D Y LUI	NAG 5 7797	243
11	JOHNS HOPKINS UNIV	D K WEST	GSFC	A S SZALAY	NAG 5 3503	242
11	JOHNS HOPKINS UNIV	D K WEST	GSFC	G R MEURER	NAG 5 8279	244
11	JOHNS HOPKINS UNIV	D R MENGERS	GSFC	H W MOOS	NAS 5 32985	252
11	JOHNS HOPKINS UNIV	D R MENGERS	GSFC	K R SEMBACH	NAG 5 3485	242
11	JOHNS HOPKINS UNIV	D WEST	GSFC	D A NEUFELD	NAG 5 3542	242
11	JOHNS HOPKINS UNIV	D WEST	GSFC	G A KRISS	NAG 5 3255	242
11	JOHNS HOPKINS UNIV	G H MUCKLOW	GSFC	D G MITCHELL	NAG 5 8687	245
11	JOHNS HOPKINS UNIV	G SONNEBORN	GSFC	A FULLERTON	NAG 5 10650	249
11	JOHNS HOPKINS UNIV	G SONNEBORN	GSFC	C HOWK	NAG 5 10957	250
11	JOHNS HOPKINS UNIV	G SONNEBORN	GSFC	H A WEAVER	NAG 5 10921	250
11	JOHNS HOPKINS UNIV	G SONNEBORN	GSFC	J A MORSE	NAG 5 8955	245
11	JOHNS HOPKINS UNIV	G SONNEBORN	GSFC	L BIANCHI	NAG 5 8965	245
11	JOHNS HOPKINS UNIV	G SONNEBORN	GSFC	L BIANCHI	NAG 5 10364	248
11	JOHNS HOPKINS UNIV	G SONNEBORN	GSFC	P CHAYER	NAG 5 10647	249
11	JOHNS HOPKINS UNIV	G SONNEBORN	GSFC	R L SHELTON	NAG 5 10394	248
11	JOHNS HOPKINS UNIV	G SONNEBORN	GSFC	R SANKRIT	NAG 5 10248	248
11	JOHNS HOPKINS UNIV	G SONNEBORN	GSFC	R SANKRIT	NAG 5 10380	248
11	JOHNS HOPKINS UNIV	G SONNEBORN	GSFC	S D FRIEDMAN	NAG 5 10355	248
11	JOHNS HOPKINS UNIV	G SONNEBORN	GSFC	S R MCCANDLISS	NAG 5 8994	245
11	JOHNS HOPKINS UNIV	G SONNEBORN	GSFC	S R MCCANDLISS	NAG 5 10403	248
11	JOHNS HOPKINS UNIV	G SONNEBORN	GSFC	T M HECKMAN	NAG 5 9012	245
11	JOHNS HOPKINS UNIV	G SONNEBORN	GSFC	T M HECKMAN	NAG 5 10302	248
11	JOHNS HOPKINS UNIV	G SONNEBORN	GSFC	W V DIXON	NAG 5 10405	249
11	JOHNS HOPKINS UNIV	H HASAN	GSFC	D R MCCANDLISS	NAG 5 4261	242
11	JOHNS HOPKINS UNIV	J BOYCE	GSFC	D MAUK	NAG 5 8191	244
11	JOHNS HOPKINS UNIV	J BOYCE	GSFC	S L MURCHIE	NAG 5 8171	244
11	JOHNS HOPKINS UNIV	J E ROBINSON	GSFC	N AVAILABLE	NAS 5 01072	252
11	JOHNS HOPKINS UNIV	J J WOLFF	GSFC	D GRANT	NAS 5 97179	252
11	JOHNS HOPKINS UNIV	J JELETIC	GSFC	H FORD	NAG 5 7697	243
11	JOHNS HOPKINS UNIV	J M BOYCE	GSFC	O BARNOUIN-JHA	NAG 5 11211	251
11	JOHNS HOPKINS UNIV	J R BYRD	GSFC	D ZHENG	NAG 5 10798	249
11	JOHNS HOPKINS UNIV	J SPANN	GSFC	S WING	NAG 5 10971	250
11	JOHNS HOPKINS UNIV	J WOLFF	GSFC	T COUGHLIN	NAS 5 97271	252
11	JOHNS HOPKINS UNIV	K E WEAVER	GSFC	E T VISHNIAC	NCC 5 447	252
11	JOHNS HOPKINS UNIV	L CAROFF	ARC	T HENRY	NAG 2 1392	241
11	JOHNS HOPKINS UNIV	M MELLOTT	GSFC	R E ERLANDSON	NAG 5 9118	246
11	JOHNS HOPKINS UNIV	M SMITH	MSFC	R GIACCONI	NAG 8 1527	251
11	JOHNS HOPKINS UNIV	P HUNTER	GSFC	S R NYLUND	NAG 5 8149	244
11	JOHNS HOPKINS UNIV	R A HOFFMAN	GSFC	N J FOX	NAG 5 9903	247
11	JOHNS HOPKINS UNIV	R BEEBE	GSFC	C P PARANICAS	NAG 5 7863	243
11	JOHNS HOPKINS UNIV	R BEEBE	GSFC	D STROBEL	NAG 5 7769	243
11	JOHNS HOPKINS UNIV	R J OLIVERSEN	GSFC	M A HOUDASHELT	NAG 5 10922	250
11	JOHNS HOPKINS UNIV	R J OLIVERSEN	GSFC	A S SZALAY	NAG 5 9186	246
11	JOHNS HOPKINS UNIV	R J OLIVERSEN	GSFC	C A NORMAN	NAG 5 10807	250
11	JOHNS HOPKINS UNIV	R J OLIVERSEN	GSFC	E COLBERT	NAG 5 9878	247
11	JOHNS HOPKINS UNIV	R J OLIVERSEN	GSFC	J H KROLIK	NAG 5 9187	246

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11	JOHNS HOPKINS UNIV	R J OLIVERSEN	GSFC	T HECKMAN	NAG 5 6400	243
11	JOHNS HOPKINS UNIV	R J OLIVERSEN	GSFC	T YAQOOB	NAG 5 10769	249
11	JOHNS HOPKINS UNIV	R J OLIVERSEN	GSFC	W V DIXON	NAG 5 10916	250
11	JOHNS HOPKINS UNIV	R M MUSHOTZKY	GSFC	T HECKMAN	NAG 5 9910	247
11	JOHNS HOPKINS UNIV	R MUSHOTZKY	GSFC	J H KROLIK	NAG 5 10304	248
11	JOHNS HOPKINS UNIV	R MUSHOTZKY	GSFC	H FORD	NAG 5 10176	247
11	JOHNS HOPKINS UNIV	R MUSHOTZKY	GSFC	L M LUBIN	NAG 5 10511	249
11	JOHNS HOPKINS UNIV	R MUSHOTZKY	GSFC	M E KAISER	NAG 5 9837	247
11	JOHNS HOPKINS UNIV	R MUSHOTZKY	GSFC	T HECKMAN	NAG 5 9948	247
11	JOHNS HOPKINS UNIV	R MUSHOTZKY	GSFC	W BLAIR	NAG 5 9963	247
11	JOHNS HOPKINS UNIV	R OLIVERSEN	GSFC	B S JAIN	NAG 5 9220	246
11	JOHNS HOPKINS UNIV	R OLIVERSEN	GSFC	E PERLMAN	NAG 5 9278	246
11	JOHNS HOPKINS UNIV	R OLIVERSEN	GSFC	E S PEARLMAN	NAG 5 9533	246
11	JOHNS HOPKINS UNIV	R OLIVERSEN	GSFC	L BIANCHI	NAG 5 9219	246
11	JOHNS HOPKINS UNIV	R POLIDAN	GSFC	G KRISS	NAG 5 6764	243
11	JOHNS HOPKINS UNIV	S CURTIS	GSFC	R GREEWALD	NAG 5 8361	244
11	JOHNS HOPKINS UNIV	T MORGAN	GSFC	H WEAVER	NAG 5 7186	243
11	JOHNS HOPKINS UNIV	WWAGNER	GSFC	D M RUST	NAG 5 8331	244
11	LOUISIANA STATE UNIV - BATON ROUGE	D K WEST	GSFC	G C CLAYTON	NAG 5 7933	234
11	LOUISIANA STATE UNIV - BATON ROUGE	D WEST	GSFC	G CHANMUGAM	NAG 5 3082	233
11	LOUISIANA STATE UNIV - BATON ROUGE	G SONNEBORN	GSFC	G C CLAYTON	NAG 5 10185	234
11	LOUISIANA STATE UNIV - BATON ROUGE	J NORRIS	GSFC	J STACY	NAG 5 8100	234
11	LOUISIANA STATE UNIV - BATON ROUGE	J P NORRIS	GSFC	J STACY	NAG 5 7355	234
11	LOUISIANA STATE UNIV - BATON ROUGE	R J OLIVERSEN	GSFC	G C CLAYTON	NAG 5 9709	234
11	LOUISIANA STATE UNIV - BATON ROUGE	R J OLIVERSEN	GSFC	J FRANK	NAG 5 8497	234
11	LOUISIANA STATE UNIV - BATON ROUGE	R OLIVERSEN	GSFC	G CLAYTON	NAG 5 9203	234
11	LOYOLA MARYMOUNT UNIV	D EVANS	GSFC	J SANNY	NAG 5 7050	53
11	MASSACHUSETTS INST OF TECH	D C LING	GSFC	D J LAZARUS	NAG 5 7794	292
11	MASSACHUSETTS INST OF TECH	D C LING	GSFC	D J LAZARUS	NAG 5 7967	292
11	MASSACHUSETTS INST OF TECH	D K WEST	GSFC	M H VAN PUTTEN	NAG 5 7012	291
11	MASSACHUSETTS INST OF TECH	D K WEST	GSFC	S A RAPPAPORT	NAG 5 8368	293
11	MASSACHUSETTS INST OF TECH	D K WEST	GSFC	V M KASPI	NAG 5 8063	292
11	MASSACHUSETTS INST OF TECH	D K WEST	GSFC	W H LEWIN	NAG 5 3558	289
11	MASSACHUSETTS INST OF TECH	G MUCKLOW	GSFC	M W BAUTZ	NAG 5 8668	293
11	MASSACHUSETTS INST OF TECH	J BERGSTRALH	GSFC	B BURKE	NAG 5 6523	291
11	MASSACHUSETTS INST OF TECH	J BERGSTRALH	GSFC	D L ELLIOT	NAG 5 3940	289
11	MASSACHUSETTS INST OF TECH	J BERGSTRALH	GSFC	D P BINZEL	NAG 5 3939	289
11	MASSACHUSETTS INST OF TECH	J BOYCE	GSFC	D L GROVE	NAG 5 10522	295
11	MASSACHUSETTS INST OF TECH	J BOYCE	GSFC	J I RICHARDSON	NAG 5 8720	293
11	MASSACHUSETTS INST OF TECH	J BOYCE	GSFC	M T ZUBER	NAG 5 8707	293
11	MASSACHUSETTS INST OF TECH	J BOYCE	GSFC	T GROVE	NAG 5 10728	295
11	MASSACHUSETTS INST OF TECH	J BOYCE	GSFC	T L GROVE	NAG 5 9525	294
11	MASSACHUSETTS INST OF TECH	J BOYCE	HQ	P L GROVE	NAG 5 4768	290
11	MASSACHUSETTS INST OF TECH	J KING	GSFC	A J LAZARUS	NAG 5 8031	292
11	MASSACHUSETTS INST OF TECH	J LING	GSFC	K PAULARENA	NAG 5 6473	291
11	MASSACHUSETTS INST OF TECH	J N CUZZI	ARC	J L ELLIOT	NAG 2 855	287
11	MASSACHUSETTS INST OF TECH	J SWANK	GSFC	D CHAKRABARTY	NAG 5 7517	292
11	MASSACHUSETTS INST OF TECH	J SWANK	GSFC	G CLARK	NAG 5 4485	290
11	MASSACHUSETTS INST OF TECH	J SWANK	GSFC	G W CLARK	NAG 5 7279	291
11	MASSACHUSETTS INST OF TECH	J SWANK	GSFC	R A REMILLARD	NAG 5 7375	292
11	MASSACHUSETTS INST OF TECH	J SWANK	GSFC	R A REMILLARD	NAG 5 7480	292
11	MASSACHUSETTS INST OF TECH	J SWANK	GSFC	S A RAPPAPORT	NAG 5 8244	293
11	MASSACHUSETTS INST OF TECH	J SWANK	GSFC	S RAPPAPORT	NAG 5 4115	290
11	MASSACHUSETTS INST OF TECH	J SWANK	GSFC	V KASPI	NAG 5 4879	290
11	MASSACHUSETTS INST OF TECH	J SWANK	GSFC	W LEWIN	NAG 5 4733	290
11	MASSACHUSETTS INST OF TECH	J SWANK	GSFC	W LEWIN	NAG 5 7481	292
11	MASSACHUSETTS INST OF TECH	M MEYER	GSFC	J GROTZINGER	NAG 5 6722	291
11	MASSACHUSETTS INST OF TECH	M MEYER	GSFC	S A BOWRING	NAG 5 8814	293
11	MASSACHUSETTS INST OF TECH	N B CUMINGS	MSFC	G RICKER	NAS 8 37716	297
11	MASSACHUSETTS INST OF TECH	P CRANE	GSFC	B F BURKE	NAG 5 9763	294
11	MASSACHUSETTS INST OF TECH	R J OLIVERSEN	GSFC	F A RASIO	NAG 5 8460	293
11	MASSACHUSETTS INST OF TECH	R J OLIVERSEN	GSFC	W H LEWIN	NAG 5 9135	293
11	MASSACHUSETTS INST OF TECH	R J OLIVERSEN	GSFC	W H LEWIN	NAG 5 10815	295
11	MASSACHUSETTS INST OF TECH	R K OLIVERSEN	GSFC	W CUI	NAG 5 7990	292
11	MASSACHUSETTS INST OF TECH	R MUSHOTZKY	GSFC	B M GAENSLER	NAG 5 9962	294

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11	MASSACHUSETTS INST OF TECH	R MUSHOTZKY	GSFC	C R CANIZARES	NAG 5 10008	295
11	MASSACHUSETTS INST OF TECH	R MUSHOTZKY	GSFC	D S DAVIS	NAG 5 10107	295
11	MASSACHUSETTS INST OF TECH	R MUSHOTZKY	GSFC	W LEWIN	NAG 5 10192	295
11	MASSACHUSETTS INST OF TECH	R OLIVERSEN	GSFC	G ALLEN	NAG 5 9237	294
11	MASSACHUSETTS INST OF TECH	R PETRE	GSFC	M SCHATTENBURG	NCC 5 330	299
11	MASSACHUSETTS INST OF TECH	R PETRE	GSFC	M SCHATTENBURG	NCC 5 525	299
11	MASSACHUSETTS INST OF TECH	T MORGAN	GSFC	A RIVKIN	NAG 5 10604	295
11	MASSACHUSETTS INST OF TECH	T MORGAN	GSFC	J ELLIOT	NAG 5 10444	295
11	MASSACHUSETTS INST OF TECH	W DAVIS	GSFC	H BRADT	NAS 5 30612	297
11	MEDGAR EVERS COLLEGE	P SAKIMOTO	GSFC	L P JOHNSON	NAG 5 10142	382
11	MICHIGAN STATE UNIV	W J WAGNER	GSFC	R F STEIN	NAG 5 9563	307
11	MICHIGAN TECHNOLOGICAL UNIV	D K WEST	GSFC	A BORYSOW	NAG 5 3689	308
11	MICHIGAN TECHNOLOGICAL UNIV	J P NORRIS	GSFC	R J NEMIROFF	NAG 5 4756	309
11	MIDDLEBURY COLLEGE	D K WEST	GSFC	P WINKLER	NAG 5 8020	506
11	MIDDLEBURY COLLEGE	W J WAGNER	GSFC	P WOLFSON	NAG 5 6118	506
11	MONTANA STATE UNIV	D DETROYE	GSFC	W HISCOCK	NCC 5 240	338
11	MONTANA STATE UNIV	M J HAGYARD	MSFC	R C CANFIELD	NAG 8 1399	337
11	MONTANA STATE UNIV	M MEYER	GSFC	D M WARD	NAG 5 8824	337
11	MONTANA STATE UNIV	M MEYER	GSFC	T R MCDERMOTT	NAG 5 8807	337
11	MONTANA STATE UNIV	W WAGNER	GSFC	D CANFIELD	NAG 5 6110	337
11	MOORHEAD STATE UNIV	J BOYCE	HQ	R O COLSON	NAG 5 7366	320
11	MOREHOUSE COLLEGE	J BERGSTRALH	GSFC	J KING	NAG 5 6602	188
11	NEW JERSEY INST OF TECH	D EVANS	GSFC	P R GOODE	NAG 5 7454	350
11	NEW JERSEY INST OF TECH	H NEEDLEMAN	GSFC		NAG 5 5144	350
11	NEW JERSEY INST OF TECH	W J WAGNER	GSFC	D R GOODE	NAG 5 4919	350
11	NEW JERSEY INST OF TECH	W WAGNER	GSFC	D E GARY	NAG 5 8466	351
11	NEW JERSEY INST OF TECH	W WAGNER	GSFC	H WANG	NAG 5 7085	350
11	NEW JERSEY INST OF TECH	W WAGNER	GSFC	M F WOODARD	NAG 5 8485	351
11	NEW JERSEY INST OF TECH	W WAGNER	GSFC	P R GOODE	NAG 5 11007	351
11	NEW MEXICO HIGHLANDS UNIV	T MORGAN	GSFC	D V RYAN	NAG 5 8734	361
11	NEW MEXICO INST OF MINING & TECH	M Y WEI	GSFC	F M PHILLIPS	NGT 5 30169	362
11	NEW MEXICO STATE UNIV - LAS CRUCES	B A MERRITT	GSFC	S J STOCHAJ	NAG 5 5159	362
11	NEW MEXICO STATE UNIV - LAS CRUCES	C P MCKAY	ARC	M MARLEY	NAG 2 6007	362
11	NEW MEXICO STATE UNIV - LAS CRUCES	D C LING	GSFC	D R WEBBER	NAG 5 7795	362
11	NEW MEXICO STATE UNIV - LAS CRUCES	D K WEST	GSFC	A KLYPIN	NAG 5 3842	362
11	NEW MEXICO STATE UNIV - LAS CRUCES	D K WEST	GSFC	A KLYPIN	NAG 5 8242	363
11	NEW MEXICO STATE UNIV - LAS CRUCES	F C JONES	GSFC	W R WEBBER	NAG 5 7524	362
11	NEW MEXICO STATE UNIV - LAS CRUCES	J HARRINGTON	GSFC	H BAPTISTE	NAG 5 11311	363
11	NEW MEXICO STATE UNIV - LAS CRUCES	J M BOYCE	GSFC	J R MURPHY	NAG 5 11164	363
11	NEW MEXICO STATE UNIV - LAS CRUCES	J M BOYCE	GSFC	V SOLOMATOV	NAG 5 10578	363
11	NEW MEXICO STATE UNIV - LAS CRUCES	R J OLIVERSEN	GSFC	M S MARLEY	NAG 5 9273	363
11	NEW MEXICO STATE UNIV - LAS CRUCES	T MORGAN	GSFC	D J CHANOVER	NAG 5 7904	362
11	NY UNIV	R OLIVERSEN	GSFC	G FARRAR	NAG 5 9246	383
11	NORFOLK STATE UNIV	P SAKIMOTO	GSFC	C W SALGADO	NAG 5 10140	514
11	NORTH CAROLINA STATE UNIV	D K WEST	GSFC	S P REYNOLDS	NAG 5 7153	400
11	NORTH CAROLINA STATE UNIV	N WHITE	GSFC	K BORKOWSKI	NAG 5 7406	400
11	NORTH CAROLINA STATE UNIV	R J OLIVERSEN	GSFC	S P REYNOLDS	NAG 5 10940	400
11	NORTH DAKOTA STATE UNIV	R PATER	LARC	M SOUCEK	NGT 1 52159	404
11	NORTHEAST LOUISIANA UNIV	J M BOYCE	GSFC	D A DE HON	NAG 5 4293	235
11	NORTHERN ARIZONA UNIV	J BERGSTRALH	GSFC	C GRIFFITH	NAG 5 8525	24
11	NORTHERN ARIZONA UNIV	J BERGSTRALH	GSFC	D BARNES	NAG 5 4995	24
11	NORTHERN ARIZONA UNIV	J BOYCE	HQ	C A GRIFFITH	NAG 5 8146	24
11	NORTHERN ARIZONA UNIV	J BOYCE	HQ	D M CORNELISON	NAG 5 8203	24
11	NORTHERN ARIZONA UNIV	T MORGAN	GSFC	C A GRIFFITH	NAG 5 6790	24
11	NORTHERN ARIZONA UNIV	T MORGAN	GSFC	S C TEGLER	NAG 5 7757	24
11	NORTHWESTERN UNIV	D K WEST	GSFC	R E TAAM	NAG 5 7011	202
11	NORTHWESTERN UNIV	D SENSKE	GSFC	M S ROBINSON	NAG 5 10847	202
11	NORTHWESTERN UNIV	G SONNEBORN	GSFC	D M MEYER	NAG 5 10323	202
11	NORTHWESTERN UNIV	G SONNEBORN	GSFC	D M MEYER	NAG 5 10465	202
11	NORTHWESTERN UNIV	G SONNEBORN	GSFC	J T LAUROESCH	NAG 5 10324	202
11	NORTHWESTERN UNIV	J BOYCE	HQ	M S ROBINSON	NAG 5 8294	202
11	NORTHWESTERN UNIV	J D JORDAN	LARC	C A MIRKIN	NAG 1 01058	201
11	NORTHWESTERN UNIV	R J OLIVERSEN	GSFC	F YUSEF-ZADEH	NAG 5 9188	202
11	NORTHWESTERN UNIV	R OLIVERSEN	GSFC	D MEYER	NAG 5 9272	202
11	NORTHWESTERN UNIV	W ZHANG	GSFC	M ULMER	NAG 5 10598	202
11	OHIO STATE UNIV	D K WEST	GSFC	A K PRADHAN	NAG 5 8423	416

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11	OHIO STATE UNIV	D K WEST	GSFC	B M PETERSON	NAG 5 8397	416
11	OHIO STATE UNIV	D K WEST	GSFC	M H PINSONNEAULT	NAG 5 7150	415
11	OHIO STATE UNIV	D WEST	GSFC	A PRADHAN	NAG 5 6908	415
11	OHIO STATE UNIV	D WEST	GSFC	P ESKRIDGE	NAG 5 7116	415
11	OHIO STATE UNIV	G SONNEBORN	GSFC	S MATHUR	NAG 5 10320	417
11	OHIO STATE UNIV	H HASAN	GSFC	D K PRADHAN	NAG 5 7903	416
11	OHIO STATE UNIV	H THRONSON	GSFC	E HERBST	NAG 5 7252	415
11	OHIO STATE UNIV	J BOYCE	GSFC	D DEPOY	NAG 5 10678	417
11	OHIO STATE UNIV	J BOYCE	GSFC	D L DEPOY	NAG 5 8313	416
11	OHIO STATE UNIV	J BOYCE	HQ	D L DEPOY	NAG 5 7589	415
11	OHIO STATE UNIV	R J OLIVERSEN	GSFC	S MATHUR	NAG 5 9270	416
11	OHIO STATE UNIV	R K OLIVERSEN	GSFC	D H WEINBERG	NAG 5 3525	414
11	OHIO STATE UNIV	R MUSHOTZKY	GSFC	S MATHUR	NAG 5 9936	416
11	OHIO STATE UNIV	R MUSHOTZKY	GSFC	S MATHUR	NAG 5 9937	416
11	OHIO UNIV	R J OLIVERSEN	GSFC	B MCNAMARA	NAG 5 11025	419
11	OLD DOMINION UNIV	J MARRA	GSFC	E HOFMANN	NCC 5 258	519
11	OREGON STATE UNIV	J BOYCE	GSFC	J R BARNES	NAG 5 9771	432
11	PENN STATE UNIV	D F MUSHOTZKY	GSFC	W N BRANDT	NAG 5 9932	447
11	PENN STATE UNIV	D F MUSHOTZKY	GSFC	W N BRANDT	NAG 5 9933	447
11	PENN STATE UNIV	D K WEST	GSFC	G G PAVLOV	NAG 5 7017	445
11	PENN STATE UNIV	D K WEST	GSFC	G PAVLOV	NAG 5 6907	445
11	PENN STATE UNIV	D K WEST	GSFC	J CHARLTON	NAG 5 6399	445
11	PENN STATE UNIV	D K WEST	GSFC	M ERACLEOUS	NAG 5 8369	446
11	PENN STATE UNIV	D K WEST	GSFC	W N BRANDT	NAG 5 8107	446
11	PENN STATE UNIV	D NAVA	GSFC	D WOLSZCZAN	NAG 5 4301	444
11	PENN STATE UNIV	D WEST	GSFC	M AKRITAS	NAG 5 6737	445
11	PENN STATE UNIV	D WEST	GSFC	P MESZAROS	NAG 5 2857	444
11	PENN STATE UNIV	J SWANK	GSFC	G CHARTAS	NAG 5 7276	445
11	PENN STATE UNIV	J SWANK	GSFC	R M SAMBRUNA	NAG 5 7121	445
11	PENN STATE UNIV	J SWANK	GSFC	W BRANDT	NAG 5 6852	445
11	PENN STATE UNIV	J SWANK	GSFC	W N BRANDT	NAG 5 7256	445
11	PENN STATE UNIV	L HILLARD	GSFC	J NOUSEK	NAG 5 8401	446
11	PENN STATE UNIV	M MEYER	GSFC	H OHMOTO	NAG 5 9089	446
11	PENN STATE UNIV	M MEYER	GSFC	J F KASTING	NAG 5 8710	446
11	PENN STATE UNIV	M S BURRELL	GSFC	JIAN GE	NGT 5 119	451
11	PENN STATE UNIV	N GEHRELS	GSFC	P I MESZAROS	NAG 5 9153	447
11	PENN STATE UNIV	P M ATKINS	GSFC	W N BRANDT	NAG 5 9924	447
11	PENN STATE UNIV	R BORELLI	GSFC	J A NOUSEK	NAG 5 00136	449
11	PENN STATE UNIV	R F MUSHOTZKY	GSFC	G PAVLOV	NAG 5 9938	447
11	PENN STATE UNIV	R F MUSHOTZKY	GSFC	W N BRANDT	NAG 5 9940	447
11	PENN STATE UNIV	R F MUSHOTZKY	GSFC	W N BRANDT	NAG 5 9918	447
11	PENN STATE UNIV	R J OLIVERSEN	GSFC	E D FEIGELSON	NAG 5 8422	446
11	PENN STATE UNIV	R J OLIVERSEN	GSFC	G PAVLOV	NAG 5 10865	448
11	PENN STATE UNIV	R J OLIVERSEN	GSFC	M ERACLEOUS	NAG 5 10817	448
11	PENN STATE UNIV	R J OLIVERSEN	GSFC	R CIARDULLO	NAG 5 9377	447
11	PENN STATE UNIV	R J OLIVERSEN	GSFC	R M SAMBRUNA	NAG 5 7925	446
11	PENN STATE UNIV	R J OLIVERSEN	GSFC	R M SAMBRUNA	NAG 5 9133	446
11	PENN STATE UNIV	R J OLIVERSEN	GSFC	R M SAMBRUNA	NAG 5 9134	447
11	PENN STATE UNIV	R J OLIVERSEN	GSFC	S PARK	NAG 5 10706	448
11	PENN STATE UNIV	R MUSHOTZKY	GSFC	D N BURROWS	NAG 5 10079	448
11	PENN STATE UNIV	R MUSHOTZKY	GSFC	D N BURROWS	NAG 5 10080	448
11	PENN STATE UNIV	R MUSHOTZKY	GSFC	G CHARTAS	NAG 5 9934	447
11	PENN STATE UNIV	R MUSHOTZKY	GSFC	G CHARTAS	NAG 5 9949	447
11	PENN STATE UNIV	R MUSHOTZKY	GSFC	M ERACLEOUS	NAG 5 9982	448
11	PENN STATE UNIV	R MUSHOTZKY	GSFC	N BRANDT	NAG 5 10089	448
11	PENN STATE UNIV	R MUSHOTZKY	GSFC	W BRANDT	NAG 5 9939	447
11	PENN STATE UNIV	R MUSHOTZKY	GSFC	Y MAEDA	NAG 5 9976	448
11	PENN STATE UNIV	R MUSHOTZKY	GSFC	Y TSUBOI	NAG 5 9970	447
11	PENN STATE UNIV	R OLIVERSEN	GSFC	P MESZAROS	NAG 5 9192	447
11	PENN STATE UNIV	S D HUNTER	GSFC	T JACKSON	NAG 5 9587	447
11	PENN STATE UNIV	S H MOSELY	GSFC	D GE	NAG 5 10617	448
11	POMONA COLLEGE	J BOYCE	GSFC	E GROSFILS	NAG 5 10498	54
11	PRAIRIE VIEW A&M UNIV	J HARRINGTON	GSFC	D HUANG	NCC 5 591	476
11	PRAIRIE VIEW A&M UNIV	J M DAVIS	MSFC	T HUANG	NAG 8 1338	476
11	PRINCETON UNIV	A NURRIDDIN	HQ	M YAMADA	NGT 5 50193	355
11	PRINCETON UNIV	C BENNET	GSFC	L PAGE	NAG 5 10481	354

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11	PRINCETON UNIV	D K WEST	GSFC	B PACZYNSKI	NAG 5 7016	352
11	PRINCETON UNIV	D K WEST	GSFC	B T DRAINE	NAG 5 7030	353
11	PRINCETON UNIV	D K WEST	GSFC	D N SPERGEL	NAG 5 7154	353
11	PRINCETON UNIV	D K WEST	GSFC	R CEN	NAG 5 8365	353
11	PRINCETON UNIV	D K WEST	GSFC	S D TREMAINE	NAG 5 7066	353
11	PRINCETON UNIV	D K WEST	GSFC	U SELJAK	NAG 5 8084	353
11	PRINCETON UNIV	D VITAGLINO	GSFC	E JENKINS	NAS 5 30110	355
11	PRINCETON UNIV	D WEST	GSFC	G KNAPP	NAG 5 6734	352
11	PRINCETON UNIV	D WEST	GSFC	G R KNAPP	NAG 5 3364	352
11	PRINCETON UNIV	J BOYCE	GSFC	J GOODMAN	NAG 5 8385	353
11	PRINCETON UNIV	J BOYCE	GSFC	S TREMAINE	NAG 5 10456	354
11	PRINCETON UNIV	J BOYCE	HQ	S D TREMAINE	NAG 5 7310	353
11	PRINCETON UNIV	R CUDDAPAH	GSFC	D WILKINSON	NAS 5 96021	355
11	PRINCETON UNIV	R J OLIVERSEN	GSFC	B T DRAINE	NAG 5 10811	354
11	PRINCETON UNIV	R J OLIVERSEN	GSFC	G R KNAPP	NAG 5 11094	354
11	PRINCETON UNIV	R J OLIVERSEN	GSFC	J N BACHALL	NAG 5 7047	353
11	PRINCETON UNIV	R J OLIVERSEN	GSFC	J P OSTRICKER	NAG 5 9284	353
11	PRINCETON UNIV	R J OLIVERSEN	GSFC	T M TRIPP	NAG 5 11136	354
11	PRINCETON UNIV	R OLIVERSEN	GSFC	E TURNER	NAG 5 9274	353
11	PRINCETON UNIV	S SOBIESKI	GSFC	E J GROTH	NAG 5 1629	352
11	PURDUE UNIV	D NAVA	GSFC	D E LIPSCHUTZ	NAG 5 4304	218
11	PURDUE UNIV	J SWANK	GSFC	J P FINLEY	NAG 5 7387	218
11	PURDUE UNIV	J SWANK	GSFC	J P FINLEY	NAG 5 7388	218
11	PURDUE UNIV	JBOYCE	GSFC	M LIPSCHUTZ	NAG 5 10422	218
11	PURDUE UNIV	R BEEBE	GSFC	T ZWIER	NAG 5 8155	218
11	PURDUE UNIV	R J OLIVERSEN	GSFC	W CUI	NAG 5 9098	218
11	PURDUE UNIV	R J OLIVERSEN	GSFC	W CUI	NAG 5 9998	218
11	RENSSELAER POLYTECH INST	D K WEST	GSFC	D C WHITTET	NAG 5 7884	384
11	RENSSELAER POLYTECH INST	D SENSKE	GSFC	D J GAFFEY	NAG 5 10345	385
11	RENSSELAER POLYTECH INST	M A MEYER	GSFC	D P FERRIS	NAG 5 7598	384
11	RENSSELAER POLYTECH INST	T MORGAN	GSFC	M J GAFFEY	NAG 5 8976	385
11	RHODES COLLEGE	M FORMAN	GSFC	D MACQUEEN	NAG 5 6049	468
11	RICE UNIV	D EVANS	GSFC	D W HILL	NAG 5 8131	477
11	RICE UNIV	D J HOLLENBACH	ARC	D J DUFOUR	NGT 2 52252	479
11	RICE UNIV	G SONNEBORN	GSFC	P HARTIGAN	NAG 5 9011	477
11	RICE UNIV	J P NORRIS	GSFC	E P LIANG	NAG 5 7980	477
11	RICE UNIV	J P NORRIS	GSFC	E P LIANG	NAG 5 9904	478
11	RICE UNIV	R J OLIVERSEN	GSFC	E P LIANG	NAG 5 10816	478
11	RICE UNIV	R J OLIVERSEN	GSFC	M G BARING	NAG 5 10841	478
11	RICE UNIV	R OLIVERSEN	GSFC	E LANG	NAG 5 9212	478
11	RICE UNIV	R OLIVERSEN	GSFC	E LIANG	NAG 5 9223	478
11	RICE UNIV	S NASH-STEVENSON	MSFC	E P LIANG	NGT 8 52899	479
11	ROCHESTER INST OF TECH	H HASAN	GSFC	D NINKOV	NAG 5 3728	386
11	ROCHESTER INST OF TECH	P CRANE	GSFC	Z NINKOV	NAG 5 9090	386
11	ROWAN UNIV	J M BOYCE	GSFC	D R KLASSEN	NAG 5 11076	356
11	ROWAN UNIV	T MORGAN	GSFC	D KLASSEN	NAG 5 6776	356
11	RUTGERS ST UNIV N	D F MUSHOTZKY	GSFC	J P HUGHES	NAG 5 9927	358
11	RUTGERS ST UNIV N	D K WEST	GSFC	A B KOSOWSKY	NAG 5 7015	357
11	RUTGERS ST UNIV N	D K WEST	GSFC	D MERRITT	NAG 5 6037	357
11	RUTGERS ST UNIV N	D NAVA	GSFC	D F HERZOG	NAG 5 4327	356
11	RUTGERS ST UNIV N	J BOYCE	GSFC	J S DELANEY	NAG 5 9528	357
11	RUTGERS ST UNIV N	J BOYCE	GSFC	R H HEWINS	NAG 5 4597	356
11	RUTGERS ST UNIV N	J BOYCE	GSFC	R HEWINS	NAG 5 10495	358
11	RUTGERS ST UNIV N	J BOYCE	HQ	J S DELANEY	NAG 5 8820	357
11	RUTGERS ST UNIV N	KRUEGER	GSFC	C L JOSEPH	NAG 5 3158	356
11	RUTGERS ST UNIV N	R HEWINS	GSFC	J BOYCE	NAG 5 9259	357
11	RUTGERS ST UNIV N	R J OLIVERSEN	GSFC	D MERRITT	NAG 5 9046	357
11	RUTGERS ST UNIV N	R J OLIVERSEN	GSFC	L FERRARESE	NAG 5 10003	358
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11	UNIV OF ARIZONA	J BOYCE	GSFC	D S MCMILLAN	NAG 5 4598	27
11	UNIV OF ARIZONA	J BOYCE	GSFC	L L HOOD	NAG 5 11168	36
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11	UNIV OF ARIZONA	J BOYCE	GSFC	S BOUGHER	NAG 5 10660	35
11	UNIV OF ARIZONA	J BOYCE	GSFC	S W BOUGHER	NAG 5 8152	30
11	UNIV OF ARIZONA	J BOYCE	GSFC	V R BAKER	NAG 5 9790	33
11	UNIV OF ARIZONA	J BOYCE	GSFC	W BOYNTON	NAG 5 10452	34
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11	UNIV OF ARIZONA	J BOYCE	HQ	J LUNINE	NAG 5 7211	28
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11	UNIV OF ARIZONA	J BOYCE	HQ	L L HOOD	NAG 5 8185	30
11	UNIV OF ARIZONA	J BOYCE	HQ	P H SMITH	NAG 5 8349	30
11	UNIV OF ARIZONA	J BOYCE	HQ	T D SWINDLE	NAG 5 7215	28
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11	UNIV OF ARIZONA	J GRANT	GSFC	V R BAKER	NAG 5 8908	31
11	UNIV OF ARIZONA	J JELETIC	GSFC	R THOMPSON	NAG 5 7923	29
11	UNIV OF ARIZONA	J JELETIC	GSFC	R THOMPSON	NAG 5 10843	35
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11	UNIV OF ARIZONA	J LING	GSFC	J JOKIPPI	NAG 5 6620	28
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11	UNIV OF ARIZONA	J M BOYCE	GSFC	A CAMERON	NAG 5 11153	36
11	UNIV OF ARIZONA	J M BOYCE	GSFC	P E GEISSLER	NAG 5 11169	36
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11	UNIV OF ARIZONA	M AFORMAN	GSFC	M KOTA	NAG 5 4834	27
11	UNIV OF ARIZONA	M MEYER	GSFC	E PIERAZZO	NAG 5 10592	34
11	UNIV OF ARIZONA	M MEYER	GSFC	H MELOSH	NAG 5 7509	28
11	UNIV OF ARIZONA	N GEHRELS	GSFC	B PETERSON	NAG 5 9803	33
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11	UNIV OF ARIZONA	P CRANE	GSFC	J HOLBERG	NAG 5 9072	31
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11	UNIV OF ARIZONA	R BEEBE	GSFC	D GREENBERG	NAG 5 7957	29
11	UNIV OF ARIZONA	R BEEBE	GSFC	D HERBERT	NAG 5 8051	29
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11	UNIV OF ARIZONA	R BEEBE	GSFC	J STANSBERRY	NAG 5 8509	30
11	UNIV OF ARIZONA	R H THOMAS	GSFC	D F BERNATH	NAG 5 4142	26
11	UNIV OF ARIZONA	R J OLIVERSEN	GSFC	A I ZABLUDOFF	NAG 5 11108	35
11	UNIV OF ARIZONA	R J OLIVERSEN	GSFC	A S BURROWS	NAG 5 7073	28
11	UNIV OF ARIZONA	R J OLIVERSEN	GSFC	C D IMPEY	NAG 5 9306	32
11	UNIV OF ARIZONA	R J OLIVERSEN	GSFC	J HOLBERG	NAG 5 9181	32
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11	UNIV OF ARIZONA	R MUSHOTZKY	GSFC	A I ZABLUDOFF	NAG 5 9957	33
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11	UNIV OF ARIZONA	T H MORGAN	GSFC	S M LARSON	NAG 5 9081	31
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11	UNIV OF ARIZONA	T MORGAN	GSFC	D CAMPINS	NAG 5 8006	29
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11	UNIV OF ARIZONA	T MORGAN	GSFC	R BROWN	NAG 5 10446	34
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11	UNIV OF ARIZONA	T MORGAN	GSFC	S LARSON	NAG 5 8015	29
11	UNIV OF ARIZONA	W HUEBNER	GSFC	D L SPRAGUE	NAG 5 4984	27
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11	UNIV OF ARKANSAS - LITTLE ROCK	D DETROYE	HQ	M HUDSON	NCC 5 260	40
11	UNIV OF ARK MAIN CAMP - FAYETTEVILLE	D NAVA	GSFC	D H BENOIT	NAG 5 4317	41
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11	UNIV OF CALIFORNIA - BERKELEY	D K WEST	GSFC	A V FILIPPENKO	NAG 5 3556	69
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11	UNIV OF CALIFORNIA - BERKELEY	D K WEST	GSFC	K C HURLEY	NAG 5 3500	69
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11	UNIV OF CALIFORNIA - BERKELEY	G SONNEBORN	GSFC	B C FLYNN	NAG 5 9973	74
11	UNIV OF CALIFORNIA - BERKELEY	G SONNEBORN	GSFC	G H FISHER	NAG 5 8984	72
11	UNIV OF CALIFORNIA - BERKELEY	G SONNEBORN	GSFC	J DUPIUS	NAG 5 10393	74
11	UNIV OF CALIFORNIA - BERKELEY	G SONNEBORN	GSFC	W V DIXON	NAG 5 8962	72
11	UNIV OF CALIFORNIA - BERKELEY	G STRINGFELLOW	GSFC	D J SAYKALLY	NAG 5 4521	69
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11	UNIV OF CALIFORNIA - BERKELEY	J BOYCE	GSFC	D W MARCY	NAG 5 8861	72
11	UNIV OF CALIFORNIA - BERKELEY	J BOYCE	GSFC	F SHU	NAG 5 10433	74
11	UNIV OF CALIFORNIA - BERKELEY	J BOYCE	HQ	B Y WELSH	NAG 5 7311	70
11	UNIV OF CALIFORNIA - BERKELEY	J HILLMAN	GSFC	I DE PATER	NAG 5 6890	70
11	UNIV OF CALIFORNIA - BERKELEY	J LING	GSFC	J G LUHMANN	NAG 5 7951	71
11	UNIV OF CALIFORNIA - BERKELEY	J LING	GSFC	S D BALE	NAG 5 7961	71
11	UNIV OF CALIFORNIA - BERKELEY	J M BOYCE	GSFC	F H SHU	NAG 5 9909	73
11	UNIV OF CALIFORNIA - BERKELEY	J M BOYCE	GSFC	P MARCUS	NAG 5 10664	74
11	UNIV OF CALIFORNIA - BERKELEY	J M BOYCE	GSFC	W DIETRICH	NAG 5 11179	75
11	UNIV OF CALIFORNIA - BERKELEY	J M BOYCE	GSFC	W WELCH	NAG 5 10657	74

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11	UNIV OF CALIFORNIA - BERKELEY	J R BYRD	GSFC	G H FISHER	NAG 5 10839	75
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11	UNIV OF CALIFORNIA - BERKELEY	L SMITH	GSFC	C F MCKEE	NGT 5 50253	79
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11	UNIV OF CALIFORNIA - BERKELEY	P CRANE	GSFC	O SIEGMUND	NAG 5 9149	72
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11	UNIV OF CALIFORNIA - BERKELEY	R J OLIVERSEN	GSFC	I ROTH	NAG 5 10866	75
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11	UNIV OF CALIFORNIA - BERKELEY	R J OLIVERSEN	GSFC	O H SIEGMUND	NAG 5 9130	72
11	UNIV OF CALIFORNIA - BERKELEY	R J OLIVERSEN	GSFC	R MALINA	NCC 5 138	77
11	UNIV OF CALIFORNIA - BERKELEY	R K OLIVERSEN	GSFC	M DAVIS	NAG 5 7833	71
11	UNIV OF CALIFORNIA - BERKELEY	R OLIVERSEN	GSFC	K H HURLEY	NAG 5 9126	72
11	UNIV OF CALIFORNIA - BERKELEY	T MORGAN	GSFC	K C HURLEY	NAG 5 9503	73
11	UNIV OF CALIFORNIA - BERKELEY	W HUEBNER	GSFC	D DE PATER	NAG 5 4202	69
11	UNIV OF CALIFORNIA - BERKELEY	W WAGNER	GSFC	G H FISHER	NAG 5 8468	72
11	UNIV OF CALIFORNIA - DAVIS	D K WEST	GSFC	R H BECKER	NAG 5 8391	80
11	UNIV OF CALIFORNIA - DAVIS	D K WEST	GSFC	S STANFORD	NAG 5 8430	80
11	UNIV OF CALIFORNIA - DAVIS	M MEYER	GSFC	D Y SUMNER	NAG 5 10591	81
11	UNIV OF CALIFORNIA - DAVIS	R BEEBE	GSFC	W JACKSON	NAG 5 8258	80
11	UNIV OF CALIFORNIA - DAVIS	R F MUSHOTZKY	GSFC	R H BECKER	NAG 5 9947	81
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11	UNIV OF CALIFORNIA - LOS ANGELES	D K WEST	GSFC	R A EDELSON	NAG 5 7899	90
11	UNIV OF CALIFORNIA - LOS ANGELES	D NAVA	GSFC	D E RUBIN	NAG 5 4766	89
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11	UNIV OF CALIFORNIA - LOS ANGELES	G SONNEBORN	GSFC	M A JURA	NAG 5 10351	93
11	UNIV OF CALIFORNIA - LOS ANGELES	J BOYCE	GSFC	D M ZUCKERMAN	NAG 5 4688	89
11	UNIV OF CALIFORNIA - LOS ANGELES	J BOYCE	GSFC	G SCHUBERT	NAG 5 8530	91
11	UNIV OF CALIFORNIA - LOS ANGELES	J BOYCE	GSFC	K D MCKEEGAN	NAG 5 9789	93
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11	UNIV OF CALIFORNIA - LOS ANGELES	J BOYCE	HQ	A GHEZ	NAG 5 6975	89
11	UNIV OF CALIFORNIA - LOS ANGELES	J BOYCE	HQ	D JURA	NAG 5 8335	91
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11	UNIV OF CALIFORNIA - SANTA BARBARA	J A GRANT	GSFC	D TANIMOTO	NAG 5 7981	107
11	UNIV OF CALIFORNIA - SANTA BARBARA	J BOYCE	GSFC	S J PEALE	NAG 5 7177	107
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11	UNIV OF CALIFORNIA - SANTA CRUZ	D K WEST	GSFC	D C KOO	NAG 5 3507	111
11	UNIV OF CALIFORNIA - SANTA CRUZ	D K WEST	GSFC	J R PRIMACK	NAG 5 8218	112
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11	UNIV OF CALIFORNIA - SANTA CRUZ	J M BOYCE	GSFC	D LIN	NAG 5 10612	113
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11	UNIV OF WISCONSIN - MADISON	R OLIVERSEN	GSFC	J CASSINELLI	NAG 5 9226	551
11	UNIV OF WISCONSIN - MADISON	T MORGAN	GSFC	F SCHERB	NAG 5 6787	549
11	UNIV OF WISCONSIN - MADISON	T MORGAN	GSFC	L A SROMOVSKY	NAG 5 6788	549
11	UNIV OF WYOMING	J P NORRIS	GSFC	R CANTERNA	NAG 5 11191	556
11	UNIV OF WYOMING	T MORGAN	GSFC	D R HOWELL	NAG 5 3935	555
11	UTAH STATE UNIV	G SCHWEMMER	GSFC	T D WILKERSON	NCC 5 219	505
11	UTAH STATE UNIV	J BOYCE	GSFC	B G FEJER	NAG 5 8638	504
11	UTAH STATE UNIV	J M GREBOWSKY	GSFC	R W SCHUNK	NAG 5 8227	504
11	VA POLYTECH INST & ST UNIV	J BOYCE	GSFC	R BODNAR	NAG 5 10733	531
11	VA POLYTECH INST & ST UNIV	J BOYCE	HQ	R J BODNAR	NAG 5 8343	530
11	VANDERBILT UNIV	J BOYCE	HQ	D A WEINTRAUB	NAG 5 8295	472
11	VANDERBILT UNIV	J M BOYCE	GSFC	D WEINTRAUB	NAG 5 10572	472
11	VANDERBILT UNIV	R HOFFMAN	GSFC	R CHAPPELL	NAG 5 8618	472
11	VILLANOVA UNIV	D K WEST	GSFC	E FITZPATRICK	NAG 5 7113	456
11	VILLANOVA UNIV	D K WEST	GSFC	E M SION	NAG 5 8388	456
11	VILLANOVA UNIV	G SONNEBORN	GSFC	E F GUINAN	NAG 5 8985	456
11	VILLANOVA UNIV	G SONNEBORN	GSFC	E F GUINAN	NAG 5 10369	456
11	VILLANOVA UNIV	G SONNEBORN	GSFC	E F GUINAN	NAG 5 10387	457
11	VILLANOVA UNIV	G SONNEBORN	GSFC	E L FITPATRICK	NAG 5 10686	457
11	VILLANOVA UNIV	G SONNEBORN	GSFC	E L FITPATRICK	NAG 5 10385	456
11	VILLANOVA UNIV	G SONNEBORN	GSFC	E M SION	NAG 5 10386	456
11	VILLANOVA UNIV	R OLIVERSEN	GSFC	E F GUINAN	NAG 5 3136	456
11	WASHINGTON STATE UNIV	J BOYCE	GSFC	E BROOK	NAG 5 9345	543
11	WASHINGTON UNIV - ST	A NURRIDDI	GSFC	K KELTON	NGT 5 50030	336
11	WASHINGTON UNIV - ST	B BETTS	GSFC	L HASKIN	NAG 5 10703	335
11	WASHINGTON UNIV - ST	B CAMPBELL	GSFC	L HASKIN	NAG 5 7140	334
11	WASHINGTON UNIV - ST	D BOGAN	GSFC	W MCKINNON	NAG 5 8899	334
11	WASHINGTON UNIV - ST	J BOYCE	GSFC	B FEGLEY	NAG 5 10553	335
11	WASHINGTON UNIV - ST	J BOYCE	GSFC	C M HOHENBERG	NAG 5 9442	334
11	WASHINGTON UNIV - ST	J BOYCE	GSFC	D FEGLEY	NAG 5 4323	333
11	WASHINGTON UNIV - ST	J BOYCE	GSFC	F PODOSEK	NAG 5 9449	334
11	WASHINGTON UNIV - ST	J BOYCE	GSFC	J T GLEAVES	NAG 5 8717	334
11	WASHINGTON UNIV - ST	J BOYCE	GSFC	R L KOROTEV	NAG 5 8609	334
11	WASHINGTON UNIV - ST	J BOYCE	GSFC	R M WALKER	NAG 5 8729	334
11	WASHINGTON UNIV - ST	J BOYCE	GSFC	R M WALKER	NAG 5 9801	335
11	WASHINGTON UNIV - ST	J BOYCE	HQ	D A PODOSEK	NAG 5 4098	332
11	WASHINGTON UNIV - ST	J BOYCE	HQ	F PODOSEK	NAG 5 7149	334
11	WASHINGTON UNIV - ST	J BOYCE	HQ	T J BERNATOWICZ	NAG 5 8336	334
11	WASHINGTON UNIV - ST	J M BOYCE	GSFC	R J PHILLIPS	NAG 5 11202	335
11	WASHINGTON UNIV - ST	J R BYRD	GSFC	W BINNS	NAG 5 10802	335
11	WASHINGTON UNIV - ST	M CHRISTI	MSFC	P L HINK	NCC 8 154	336
11	WASHINGTON UNIV - ST	M MEYER	GSFC	E L SHOCK	NAG 5 7696	334
11	WASHINGTON UNIV - ST	R BEEBE	GSFC	W B MCKINNON	NAG 5 8056	334
11	WELLESLEY COLLEGE	D SENSKÉ	GSFC	R G FRENCH	NAG 5 10197	304
11	WESLEYAN UNIV	D NAVA	GSFC	D HERBST	NAG 5 4821	146

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11	WEST VIRGINIA UNIV	J LING	GSFC	E SCIME	NAG 5 6468	545
11	WESTERN KENTUCKY UNIV	JD ROSENDHAL	GSFC	C H MCGRUDER	NAG 5 8762	232
11	WHITMAN COLLEGE	D WEST	GSFC	U SOFIA	NAG 5 8249	544
11	WHITMAN COLLEGE	G SONNEBORN	GSFC	U SOFIA	NAG 5 9249	544
11	WHITMAN COLLEGE	R POLIDAN	GSFC	U J SOFIA	NAG 5 8248	544
11	WICHITA STATE UNIV	D K WEST	GSFC	D ALEXANDER	NAG 5 3435	230
11	YALE UNIV	D K WEST	GSFC	P COPPI	NAG 5 7074	147
11	YALE UNIV	D K WEST	GSFC	P F DEMARQUE	NAG 5 8406	147
11	YALE UNIV	G MUCKLOW	GSFC	R J SCHOELKOPF	NAG 5 8589	147
11	YALE UNIV	M MEYER	GSFC	R L DORIT	NAG 5 8813	147
11	YALE UNIV	R J OLIVERSEN	GSFC	C BAILYN	NAG 5 6404	147
11	YALE UNIV	R J OLIVERSEN	GSFC	P COPPI	NAG 5 9123	147
11	YALE UNIV	R J OLIVERSEN	GSFC	S ZEPF	NAG 5 9168	147
11	YALE UNIV	R J OLIVERSEN	GSFC	S ZEPF	NAG 5 9651	147
12	ARIZONA STATE UNIV	J BOYCE	GSFC	D LAURETTA	NAG 5 10524	22
12	ARIZONA STATE UNIV	J BOYCE	GSFC	L A LESHIN	NAG 5 10523	22
12	ARIZONA STATE UNIV	M MEYER	GSFC	S PIZZARELLO	NAG 5 9451	21
12	BROWN UNIV	J BOYCE	GSFC	C PIETERS	NAG 5 10469	459
12	CALIFORNIA INST OF TECH	A NURRIDDIN	HQ	M OKUMURA	NGT 5 50200	49
12	CALIFORNIA INST OF TECH	D HOLLAND	GSFC	R A MEWALDT	NAG 5 3466	42
12	CALIFORNIA INST OF TECH	J BOYCE	GSFC	D J WASSERBURG	NAG 5 4076	42
12	CALIFORNIA INST OF TECH	J BOYCE	GSFC	E STOLPER	NAG 5 10423	47
12	CALIFORNIA INST OF TECH	J BOYCE	HQ	D J WASSERBURG	NAG 5 4083	42
12	CARNEGIE - MELLON UNIV	B GUYNES	MSFC	R D TILTON	NAG 8 1842	438
12	CARNEGIE - MELLON UNIV	P DOTY	MSFC	G S ROHRER	NAG 8 1674	437
12	CASE WESTERN RESERVE UNIV	D L BRITTON	GRC	D A SCHERSON	NAG 3 2644	407
12	CHARLES COUNTY COMM COLLEGE	J A NUTH	GSFC	G KRAUSE	NCC 5 400	240
12	CLARK ATLANTA UNIV	M A MEADOR	GRC	D PANG	NCC 3 911	181
12	CLARK ATLANTA UNIV	M A MEADOR	GRC	D R BU	NCC 3 910	181
12	CLARK ATLANTA UNIV	M A MEADOR	GRC	E A MINTZ	NAS 3 01201	181
12	CLARKSON UNIV	P DOTY	MSFC	W R WILCOX	NAG 8 1703	369
12	CLEMSON UNIV - CLEMSON	J BOYCE	GSFC	B MEYER	NAG 5 10454	463
12	CLEMSON UNIV - CLEMSON	J W CONNELL	LARC	Y P SUN	NGT 1 01036	463
12	CLEMSON UNIV - CLEMSON	J W CONNELL	LARC	Y P SUN	NGT 1 52238	464
12	CLEMSON UNIV - CLEMSON	J W CONWELL	LARC	Y SUN	NCC 1 01036	463
12	CLEVELAND STATE UNIV	A E HEPP	GRC	D G HEHEMANN	NCC 3 817	411
12	CLEVELAND STATE UNIV	K KUNDU	GRC	D G NEHEMANN	NAG 3 2631	410
12	CLEVELAND STATE UNIV	M J ZEHE	GRC	D W BALL	NAG 3 2607	410
12	CLEVELAND STATE UNIV	S G BAILEY	GRC	J D HARRIS	NCC 3 869	411
12	COLLEGE OF WILLIAM AND MARY	J W CONNELL	LARC	R A ORWOLL	NAG 1 2314	507
12	COLLEGE OF WILLIAM AND MARY	J W CONNELL	LARC	R A ORWOLL	NAG 1 01107	508
12	COLLEGE OF WILLIAM AND MARY	S A THIBEAULT	LARC	R L KIEFER	NCC 1 239	508
12	COLUMBIA UNIV	D J BOGAN	GSFC	R BERSOHN	NAG 5 11049	373
12	ECKERD COLLEGE	M H MOORE	GSFC	R L HUDSON	NAG 5 11097	162
12	GEORGIA SOUTHERN UNIV	J ALLEN	GSFC	R NELSON	NCC 5 254	188
12	HAMPTON UNIV	F SCHMIDLIN	GSFC	D P MCCORMICK	NAG 5 5299	512
12	HAMPTON UNIV	T L ST. CLAIR	LARC	J C WILLIAMS	NAG 1 1941	510
12	HARVARD UNIV	J BOYCE	GSFC	S JACOBSEN	NAG 5 10484	285
12	INDIANA STATE UNIV	D BRITTON	GRC	D W ZWANZIGER	NAG 3 2588	214
12	INDIANA UNIV - BLOOMINGTON	J BOYCE	GSFC	A BASU	NAG 5 10459	215
12	IOWA STATE UNIV	N H HAGEDORN	GRC	S W MARTIN	NAG 3 2540	222
12	IOWA STATE UNIV	P J HALEY	LARC	M S GORDON	NCC 2 5349	224
12	JACKSON STATE UNIV	A POHORILLE	ARC	J LESZCZYNSKI	NCC 2 5398	327
12	KENT STATE UNIV	A F HEPP	GRC	C VARCAS ABURTO	NCC 3 563	413
12	KNOX COLLEGE	J FISHMAN	LARC	L C BUSH	NAG 1 2269	201
12	MICHIGAN STATE UNIV	S G CAMPBELL	GRC	T J PINNAVAIA	NAG 3 2472	307
12	MICHIGAN TECHNOLOGICAL UNIV	J HINKLEY	LARC	L DRZAL	NAG 1 01004	308
12	MONTANA STATE UNIV	M MEYER	GSFC	M G WARD	NAG 5 3652	337
12	MT HOLYOKE COLLEGE	J BOYCE	GSFC	D DYAR	NAG 5 10424	300
12	NY UNIV	S NASH-STEVEN	MSFC	S WILSON	NGT 8 52893	383
12	NORFOLK STATE UNIV	A F HEPP	GRC	S SUN	NAG 3 2289	514
12	NORTHWESTERN UNIV	R S BALDWIN	GRC	D F SHRIVER	NAG 3 2628	202
12	OAKWOOD COLLEGE	W BRANTLEY	MSFC	A VOLKOV	NAG 8 1734	4
12	OLD DOMINION UNIV	B J JENSEN	LARC	K L WISE	NGT 1 52124	520
12	OLD DOMINION UNIV	H NEEDLEMAN	GSFC	A PIERCE	NAG 5 5131	518
12	PRAIRIE VIEW A&M UNIV	M A MEADOR	GRC	L E CARSON-ISABELLE	NCC 3 577	476

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12	PRINCETON UNIV	D NOENER	MSFC	D SAVILLE	NAG 8 1368	354
12	PRINCETON UNIV	E J SIOCHI	LARC	I A AKSAY	NCC 1 01010	355
12	PRINCETON UNIV	T L STCLAIR	WFF	A AKSAY	NAG 1 01010	352
12	RENSSELAER POLYTECH INST	D LARKIN	GRC	D INTERRANTE	NAG 3 2525	384
12	RENSSELAER POLYTECH INST	D LARKIN	GRC	L V INTERRANTE	NAG 3 2304	384
12	RICE UNIV	G K HORIUCHI	JSC	R C SMALLEY	NCC 9 77	479
12	RICE UNIV	K C CHUANG	GRC	A BARRON	NAG 3 2365	477
12	ROCHESTER INST OF TECH	N HAGEDORN	GRC	D P RAFFAELLE	NAG 3 2484	385
12	RUTGERS ST UNIV N	J BOYCE	GSFC	R HEWINS	NAG 5 10494	358
12	RUTGERS ST UNIV N	N J JOHNSON	LARC	M JAFFE	NAG 1 2182	356
12	SAN FRANCISCO STATE UNIV	T L ROUSH	ARC	J B ORENBERG	NCC 2 5324	55
12	SAN JOSE STATE UNIV	L T IRACI	ARC	P J HAMILL	NCC 2 5452	58
12	SOUTHWEST TEXAS STATE UNIV	A K ST. CLAIR	LARC	P E CASSIDY	NCC 1 324	480
12	SOUTHWEST TEXAS STATE UNIV	D M STOAKLEY	LARC	P E CASSIDY	NCC 1 376	480
12	SOUTHWEST TEXAS STATE UNIV	D M STOAKLEY	LARC	P E CASSIDY	NCC 1 01033	480
12	STANFORD UNIV	H PARTIDGE	ARC	K J CHO	NCC 2 5400	65
12	STANFORD UNIV	H PATRIDGE	ARC	Z X SHEN	NCC 2 5446	66
12	STANFORD UNIV	J M BOYCE	GSFC	R ZARE	NAG 5 10544	63
12	STANFORD UNIV	P DOTY	MSFC	G M HOMSY	NAG 8 1692	63
12	STANFORD UNIV	T R GOVINDAN	ARC	H DAI	NCC 2 5270	65
12	STATE UNIV OF NY - STONY BROOK	J BOYCE	GSFC	S MCLENNAN	NAG 5 10506	390
12	STATE UNIV OF NY - STONY BROOK	P DOTY	MSFC	M RAFAILOVICH	NAG 8 1698	391
12	TEXAS A&M UNIV	R BALDWIN	GRC	D APPLEBY	NAG 3 2617	480
12	TEXAS SOUTHERN UNIV	C B AGEE	JSC	B L WILSON	NCC 9 80	485
12	THE CATHOLIC UNIV OF AMERICA	J E ALLEN	GSFC	T THORN	NCC 5 452	161
12	THE CATHOLIC UNIV OF AMERICA	L J STIEF	GSFC	F L NESBITT	NCC 5 68	160
12	TUFTS UNIV	N HAGEDORN	GRC	D B GOLDNER	NAG 3 2563	300
12	UNIV HOUSTON-HOUSTON	A NURRIDIN	HQ	G E FOX	NGT 5 50182	488
12	UNIV HOUSTON-HOUSTON	D F BLAKE	ARC	A D HAYMET	NCC 2 5396	487
12	UNIV OF MINN	H C NEDDLEMAN	GSFC	C J WADDINGTON	NAG 5 5113	321
12	UNIV OF MINN	NH HAGEDORN	GRC	W H SMYRL	NAG 3 2600	321
12	UNIV OF AKRON	F J MONTEGANI	GRC	D PERRY	NGT 3 52364	422
12	UNIV OF AKRON	M A MEADOR	GRC	F W HARRIS	NAG 3 2572	421
12	UNIV OF AKRON	M MEADOR	GRC	C PUGH	NCC 3 794	422
12	UNIV OF AKRON	M MEADOR	GRC	F W HARRIS	NCC 3 802	422
12	UNIV OF ALABAMA - HUNTSVILLE	J CAMPBELL	MSFC	L SMALLEY	NAG 8 1403	11
12	UNIV OF ALABAMA - UNIV	D E LUECK	KSC	R D ROGERS	NAG10 305	16
12	UNIV OF ARIZONA	J BOYCE	GSFC	D LAURETTA	NAG 5 11355	36
12	UNIV OF ARIZONA	J BOYCE	GSFC	J GANGULY	NAG 5 10486	34
12	UNIV OF ARIZONA	J BOYCE	HQ	D J DRAKE	NAG 5 4084	26
12	UNIV OF ARK MAIN CAMP - FAYETTEVILLE	J BOYCE	GSFC	P BENOIT	NAG 5 10736	41
12	UNIV OF CALIFORNIA - BERKELEY	J F BOYCE	GSFC	D NISHIIZUMI	NAG 5 4992	69
12	UNIV OF CALIFORNIA - BERKELEY	M MEYER	GSFC	J BLANK	NAG 5 9260	73
12	UNIV OF CALIFORNIA - BERKELEY	R F PFAFF, JR.	GSFC	C W CARLSON	NAG 5 3596	69
12	UNIV OF CALIFORNIA - IRVINE	D HUBBARD	MSFC	P TABOREK	NAG 8 1437	85
12	UNIV OF CALIFORNIA - LOS ANGELES	D F NAVA	GSFC	D T WASSON	NAG 5 4331	89
12	UNIV OF CALIFORNIA - LOS ANGELES	D NAVA	GSFC	J WASSON	NAG 5 10421	93
12	UNIV OF CALIFORNIA - LOS ANGELES	J BOYCE	GSFC	D H WARREN	NAG 5 4215	89
12	UNIV OF CALIFORNIA - LOS ANGELES	J BOYCE	GSFC	P WARREN	NAG 5 10490	93
12	UNIV OF CALIFORNIA - SAN FRANCISCO	M H NEW	ARC	M A WILSON	NCC 2 1126	105
12	UNIV OF CALIFORNIA - SAN FRANCISCO	R L JAFFE	ARC	M A WILSON	NCC 2 5294	105
12	UNIV OF CALIFORNIA - SANTA BARBARA	E J SIOCHI	LARC	D E MORSE	NAG 1 01003	105
12	UNIV OF CALIFORNIA - SANTA CRUZ	A POHORILLE	ARC	A KANAVARIOTI	NCC 2 5309	113
12	UNIV OF CHICAGO	J BOYCE	GSFC	D N CLAYTON	NAG 5 3986	204
12	UNIV OF CHICAGO	J BOYCE	GSFC	R CLAYTON	NAG 5 10634	206
12	UNIV OF COLORADO - BOULDER	P L LOYSELLE	GRC	J MICHL	NAG 3 2651	124
12	UNIV OF DELAWARE	M A MEADOR	GRC	G R PALMESE	NCC 3 784	150
12	UNIV OF FLORIDA	B T UPCHURCH	LARC	K S SCHANZE	NAG 1 1809	171
12	UNIV OF FLORIDA	F ADAMS	KSC	R A YOST	NGT10 52626	176
12	UNIV OF FLORIDA	R R ANTELIFF	LARC	K S SCHANZE	NAG 1 2161	171
12	UNIV OF HAWAII AT MANOA - HONOLULU	D NAVA	GSFC	D KEIL	NAG 5 4212	192
12	UNIV OF HAWAII AT MANOA - HONOLULU	J BOYCE	GSFC	T MCCORD	NAG 5 10514	197
12	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	R S OKOJIE	GRC	I ADESIDA	NAG 3 2599	210
12	UNIV OF IOWA	B GUYNES	MSFC	J M WIENCEK	NAG 8 1386	227
12	UNIV OF MASSACHUSETTS - AMHERST	J BOYCE	GSFC	J GOLDSTEIN	NAG 5 10515	303
12	UNIV OF MICHIGAN - ANN ARBOR	J BOYCE	GSFC	J BLUM	NAG 5 10552	315

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12	UNIV OF NEW ORLEANS	W B ALSTON	GRC	J P DROSKE	NAG 3 1906	237
12	UNIV OF NORTH CAROLINA - CHAPEL HILL	E J SIOCHI	LARC	E T SAMULSKI	NAG 1 2301	402
12	UNIV OF NOTRE DAME	J BOYCE	GSFC	C NEAL	NAG 5 10638	221
12	UNIV OF PUERTO RICO-RIO PIEDRAS	F J MONTEGANI	GRC	C R CABRERA	NGT 3 52376	558
12	UNIV OF TOLEDO	K P KUNDU	GRC	K J DEWITT	NCC 3 513	427
12	UNIV OF UTAH	J A HINKLEY	LARC	G D SMITH	NAG 1 2319	502
12	UNIV OF VERMONT	J BOYCE	GSFC	T RUCHMER	NAG 5 10463	506
12	UNIV OF VIRGINIA	H PARTRIDGE	ARC	L S ANDREWS	NCC 2 5415	527
12	UNIV OF WASHINGTON	J H BELL	ARC	M P GOUTERMAN	NAG 2 1157	534
12	UNIV OF WASHINGTON	J M BOYCE	GSFC	D E BROWNLEE	NAG 5 10499	539
12	UNIV OF WASHINGTON	T BENCIC	GRC	D GOUTERMAN	NAG 3 2455	534
12	VA POLYTECH INST & ST UNIV	E J SIOCHI	LARC	T C WARD	NAG 1 2310	529
12	VA POLYTECH INST & ST UNIV	E J SIOCHI	LARC	T C WARD	NGT 1 01003	532
12	VA POLYTECH INST & ST UNIV	M B MEADOR	GRC	J E MCGRATH	NCC 3 866	531
12	VA POLYTECH INST & ST UNIV	S H CHOI	LARC	H C DORN	NCC 1 01044	531
12	VA POLYTECH INST & ST UNIV	T L ST.CLAIR	LARC	L T TAYLOR	NAG 1 2324	529
12	VIRGINIA COMMONWEALTH UNIV	P M DOTY	MSFC	M S EL-SHALL	NAG 8 1484	533
12	WASHINGTON UNIV - ST	G MUCKLOW	GSFC	D LEOPOLD	NAG 5 8536	334
12	WASHINGTON UNIV - ST	J BOYCE	GSFC	D A HASKIN	NAG 5 4172	332
12	WASHINGTON UNIV - ST	J BOYCE	GSFC	D HOHENBERG	NAG 5 4173	332
12	WASHINGTON UNIV - ST	J BOYCE	GSFC	F PODOSEK	NAG 5 10513	335
12	WASHINGTON UNIV - ST	J BOYCE	GSFC	L HASKIN	NAG 5 10485	335
12	WASHINGTON UNIV - ST	J BOYCE	GSFC	L HASKIN	NAG 5 10533	335
12	WASHINGTON UNIV - ST	J BOYCE	GSFC	T BERNATOWICZ	NAG 5 10426	335
12	WESTERN KENTUCKY UNIV	F J MONTEGANI	GRC	W PAN	NGT 3 52353	233
12	WHEELING JESUIT UNIV	A F HEPP	GRC	N N DUFFY	NCC 3 858	546
13	ALABAMA A&M UNIV	A CHOW	MSFC	K HE	NAG 8 1335	1
13	ALABAMA A&M UNIV	B G PENN	MSFC	N KUKHATAREV	NAG 8 1620	1
13	ALABAMA A&M UNIV	B PENN	MSFC	S SARKISOV	NAG 8 1498	1
13	ALABAMA A&M UNIV	D FRAZIER	MSFC	M D AGGARWAL	NAG 8 1390	1
13	ALABAMA A&M UNIV	D PIERSON	JSC	M TADROS	NAG 9 1095	2
13	ALABAMA A&M UNIV	G ADAMOVSKY	GRC	D CURLEY	NCC 3 736	2
13	ALABAMA A&M UNIV	G ADAVOVSKY	GRC	P VENKATESWARLY	NAG 3 1956	1
13	ALABAMA A&M UNIV	S NASH-STEVENSON	MSFC	J C WANG	NGT 8 52902	2
13	ARIZONA STATE UNIV	I KRAINSKY	GRC	N NEWMAN	NAG 3 2591	20
13	ARIZONA STATE UNIV	M MEYYAPPAN	ARC	Y H ZHANG	NCC 2 5331	23
13	ARIZONA STATE UNIV	M MEYYAPPAN	ARC	Y ZHANG	NCC 2 5362	23
13	AUBURN UNIV	G E SCHWARZE	GRC	J R WILLIAMS	NAG 3 2639	3
13	AUBURN UNIV	R REED	GSFC	J D CRESSLER	NAG 5 11121	3
13	BETHUNE - COOKMAN COLLEGE	S E HETHERINGTON	GSFC	E F EKPO	NCC 5 426	162
13	BIRMINGHAM SOUTHERN COLLEGE	J F DOWDY	MSFC	K B BACHMANN	NAG 8 1280	4
13	BOSTON COLLEGE	N P BARNES	LARC	B DIBARTOIO	NAG 1 2057	276
13	BOSTON COLLEGE	N P BARNES	LARC	B DIBARTOLO	NAG 1 01019	276
13	BOSTON UNIV	J C BARNES	LARC	K P HARLING	NGT 1 52199	280
13	BOSTON UNIV	J GREBOWSKY	GSFC	D MENDILLO	NAG 5 4246	277
13	BOSTON UNIV	J GREBOWSKY	GSFC	G L SISCOE	NAG 5 8135	278
13	BOSTON UNIV	M GOLDSTEIN	GSFC	T FRITZ	NAG 5 10108	279
13	BOSTON UNIV	M H ACUNA	GSFC	H E SPENCE	NAG 5 8039	278
13	BOSTON UNIV	M M MELLOTT	GSFC	D E SPENCE	NAG 5 4273	277
13	BOSTON UNIV	M M MELLOTT	GSFC	D MENDILLO	NAG 5 4707	277
13	BOSTON UNIV	M MELLOTT	GSFC	M OPPENHEIM	NAG 5 7452	278
13	BOSTON UNIV	N R HALL	GRC	R G HOLT	NAG 3 2143	276
13	BOSTON UNIV	P CRANE	GSFC	S CHAKRABARTI	NAG 5 9582	279
13	BOSTON UNIV	R B ROGERS	GRC	R G HOLT	NAG 3 2121	276
13	BOSTON UNIV	R H PLESS	GSFC	S CHAKRABARTI	NAG 5 690	276
13	BOSTON UNIV	R HOWARD	GSFC	D E SPENCE	NAG 5 3748	276
13	BOSTON UNIV	W B JOHNSON	WFF	S CHAKRABARTI	NAG 5 5251	277
13	BOSTON UNIV	W J WAGNER	GSFC	N U CROOKER	NAG 5 10856	279
13	BOSTON UNIV	W JOHNSON	GSFC	S CHAKRABARTI	NAG 5 5137	277
13	BROWN UNIV	B FLOWERS	GSFC	G SEIDEL	NAG 5 5133	457
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13	BROWN UNIV	D HUBBARD	MSFC	H J MARIS	NAG 8 1774	459
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13	CALIFORNIA INST OF TECH	B A MERRITT	WFF	F HARRISON	NAG 5 5322	44
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13	CALIFORNIA INST OF TECH	J C BRINTON	WFF	C MARTIN	NAG 5 5303	43
13	CALIFORNIA STATE UNIV - LONG BEACH	K HSIEH	GRC	J LIU	NAG 3 1830	51
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13	CARNEGIE - MELLON UNIV	R B ROGERS	GRC	P J SIDES	NAG 3 2159	436
13	CASE WESTERN RESERVE UNIV	A CHIT	GRC	P L TAYLOR	NCC 3 587	407
13	CASE WESTERN RESERVE UNIV	C R TALLEY	MSFC	C ROSENBLATT	NAG 8 1270	407
13	CASE WESTERN RESERVE UNIV	J BRUNSON	MSFC	D H MATTHIESEN	NCC 8 152	409
13	CASE WESTERN RESERVE UNIV	R OKOJIE	GRC	P PIROUZ	NCC 3 895	408
13	CHRISTOPHER NEWPORT UNIV	R C SINGLETERRY, JR.	LARC	C K CHANG	NCC 1 277	507
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13	CLARK ATLANTA UNIV	A TEMKIN	GSFC	A MSEZANE	NAG 5 8792	181
13	CLEMSON UNIV - CLEMSON	B A MERRITT	WFF	D H HARTMANN	NAG 5 5325	462
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13	CLEMSON UNIV - CLEMSON	W B JOHNSON	GSFC	M F LARSEN	NAG 5 5242	462
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13	CLEVELAND STATE UNIV	A CHAIT	GRC	J A LOCK	NCC 3 521	410
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13	CLEVELAND STATE UNIV	G ADAMOVSKY	GRC	J A LOCK	NCC 3 909	412
13	CLEVELAND STATE UNIV	S K RUTLEDGE	GRC	P HAMBOURGER	NCC 3 740	411
13	COLLEGE OF WILLIAM AND MARY	M H SMITH	LARC	D C BENNER	NCC 1 390	508
13	COLLEGE OF WILLIAM AND MARY	P H JOHNSTON	LARC	J S BOGHOSIAN	NGT 1 52180	508
13	COLLEGE OF WOOSTER	J W POE	MSFC	D T JACOBS	NAG 8 1433	412
13	COLORADO STATE UNIV	V K RAWLIN	GRC	P J WILBUR	NAG 3 1801	120
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13	COLUMBIA UNIV	H C NEEDLEMAN	GSFC	E APRILE	NAG 5 5108	370
13	COLUMBIA UNIV	L J EARLY	GSFC	R NOVICK	NAG 5 618	369
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13	COLUMBIA UNIV	W J WAGNER	GSFC	D WINDT	NAG 5 9615	372
13	CORNELL UNIV	J W POE	MSFC	D M LEE	NAG 8 1445	380
13	CORNELL UNIV	S K KAHNG	LARC	P L MCEUEN	NAG 1 01034	375
13	CORNELL UNIV	W B JOHNSON	GSFC	M C KELLEY	NAG 5 5244	377
13	CORNELL UNIV	W B JOHNSON	MSFC	P M KINTNER	NAG 5 5233	376
13	CORNELL UNIV	W JOHNSON	GSFC	P KINTNER	NAG 5 5134	376
13	CORNELL UNIV	W M SATTMAN	JSC	W M SALTZMAN	NAG 8 1372	380
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13	DARTMOUTH COLLEGE	J C BRINTON	GSFC	J W LABELLE	NAG 5 5318	343
13	DARTMOUTH COLLEGE	J M GREBOWSKY	GSFC	W LOTKO	NAG 5 8441	344
13	DARTMOUTH COLLEGE	M H ACUNA	GSFC	W LOTKO	NAG 5 7803	344
13	DARTMOUTH COLLEGE	M M MELLOTT	GSFC	D LOTKO	NAG 5 4529	343
13	DARTMOUTH COLLEGE	W B JOHNSON	GSFC	J W LABELLE	NAG 5 5238	343
13	DARTMOUTH COLLEGE	W B JOHNSON	GSFC	J W LABELLE	NAG 5 5239	343
13	DELAWARE STATE UNIV	W C EDWARDS	LARC	N MELIKECHI	NAG 1 2030	149
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13	EMBRY-RIDDLE AERONAUTICAL UNIV	W B JOHNSON	GSFC	P J ESPY	NAG 5 5199	162
13	EMBRY-RIDDLE AERONAUTICAL UNIV	W B JOHNSON	GSFC	P W ERDMAN	NAG 5 5265	162
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13	FISK UNIV	E CLARK	GRC	D O HENDERSON	NAG 3 2308	467
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13	GEORGIA INST OF TECH	S NASH-STEVENSON	MSFC	J OLDS	NGT 8 52898	188
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13	HOWARD UNIV	J TUTTLE	GSFC	T HUBER	NAG 5 10371	155
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13	JOHN CARROLL UNIV	S WRBANEK	GRC	R L HANSLER	NAG 3 2564	412
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13	JOHNS HOPKINS UNIV	D EVANS	GSFC	D OHTANI	NAG 5 6178	243
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13	JOHNS HOPKINS UNIV	W J WAGNER	GSFC	D M RUST	NAG 5 10998	250
13	KANSAS STATE UNIV	F P CHIARAMONTE	GRC	C SORENSEN	NAG 3 2360	228
13	KENT STATE UNIV	J POUCH	GRC	P BROS	NAG 3 2539	413
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13	LE TOURNEAU UNIV	B S FILES	JSC	G D DEBOER	NAG 9 1174	475
13	LOMA LINDA UNIV	F A CUCINOTTA	JSC	G A NELSON	NCC 9 79	53
13	LOMA LINDA UNIV	F CUCINOTTA	JSC	G NELSON	NCC 9 118	53
13	LOUISIANA STATE UNIV - BATON ROUGE	B A MERRITT	GSFC	J P WEFEL	NAG 5 5306	234
13	LOUISIANA STATE UNIV - BATON ROUGE	B A MERRITT	GSFC	M L CHERRY	NAG 5 5177	233
13	LOUISIANA STATE UNIV - BATON ROUGE	B A MERRITT	GSFC	M L CHERRY	NAG 5 5323	234
13	LOUISIANA STATE UNIV - BATON ROUGE	B A MERRITT	WFF	M L CHERRY	NAG 5 5297	233
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13	LOUISIANA STATE UNIV - BATON ROUGE	H NEEDLEMAN	GSFC	M CHERRY	NAG 5 5127	233
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13	MASSACHUSETTS INST OF TECH	D HUBBARD	MSFC	W KETTERLE	NAG 8 1435	296
13	MASSACHUSETTS INST OF TECH	D HUBBARD	MSFC	W KETTERLE	NAG 8 1768	296
13	MASSACHUSETTS INST OF TECH	F R CHANG-DIAZ	JSC	K MOLVIG	NAG 9 1224	297
13	MASSACHUSETTS INST OF TECH	J BRINTON	GSFC	A LEVINE	NAG 5 5329	291
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13	MASSACHUSETTS INST OF TECH	M H ACUNA	GSFC	A J LAZARUS	NAG 5 8045	292
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13	MASSACHUSETTS INST OF TECH	P DOTY	MSFC	M C FLEMING	NAG 8 1685	296
13	MASSACHUSETTS INST OF TECH	W J WAGNER	GSFC	T CHANG	NAG 5 9616	294
13	MICHIGAN STATE UNIV	E CHENG	GSFC	E D LOH	NAG 5 3218	307
13	MICHIGAN STATE UNIV	H SHAW	GSFC	D TOMANEK	NAG 5 9276	307
13	MICHIGAN TECHNOLOGICAL UNIV	B A MERRITT	WFF	R NEMIROFF	NAG 5 5278	309
13	MIDDLEBURY COLLEGE	W J WAGNER	GSFC	R WOLFSON	NAG 5 9733	506
13	MONTANA STATE UNIV	W J WAGNER	GSFC	C C KANKELBORG	NAG 5 10997	337
13	MORGAN STATE UNIV	J CHITWOOD	GSFC	C WILLIAMS	NAG 5 8857	253
13	MORGAN STATE UNIV	J S CHITWOOD	GSFC	C WILLIAMS	NCC 5 204	254
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13	NEW JERSEY INST OF TECH	W J WAGNER	GSFC	M F WOODARD	NAG 5 9519	351
13	NEW JERSEY INST OF TECH	W J WAGNER	GSFC	P R GOODE	NAG 5 9682	351
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13	NEW MEXICO STATE UNIV - LAS CRUCES	H C NEEDLEMAN	GSFC	S J STOCHAJ	NAG 5 5060	362
13	NEW MEXICO STATE UNIV - LAS CRUCES	H C NEEDLEMAN	GSFC	S J STOCHAJ	NAG 5 5068	362
13	NEW MEXICO STATE UNIV - LAS CRUCES	J GRANT	GSFC	V SOLOMATOV	NAG 5 8803	363
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13	NORFOLK STATE UNIV	R E STREITMATTER	GSFC	C W SALGADO	NAG 5 8653	514
13	NORTH CAROLINA A&T STATE UNIV	J A JACKSON	GSFC	E WILLIAMS	NAG 5 9170	398
13	NORTH CAROLINA STATE UNIV	J M GREBOWSKY	GSFC	D C ELLISON	NAG 5 8215	400
13	NORTH CAROLINA STATE UNIV	M S BURRELL	GSFC	S O REYNOLDS	NGT 5 65	402
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13	NORTHWESTERN UNIV	L W GURKIN	GSFC	M P ULMER	NAG 5 5094	202
13	NORTHWESTERN UNIV	M S BURRELL	GSFC	G NOVAK	NGT 5 88	203
13	NORTHWESTERN UNIV	M WEISLOGEL	GRC	S LICHTER	NAG 3 1892	201
13	OHIO STATE UNIV	D HUBBARD	MSFC	T HO	NAG 8 1441	417
13	OHIO STATE UNIV	D HUBBARD	MSFC	T L HO	NAG 8 1765	417
13	OHIO STATE UNIV	E J PENCIL	GRC	D Y YORK	NAG 3 2438	414
13	OHIO STATE UNIV	P DOTY	MSFC	P K DUTTA	NAG 8 1267	417
13	OKLAHOMA STATE UNIV	B SINGH	GRC	O TONG	NAG 3 1852	428
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13	OLD DOMINION UNIV	T H HOU	LARC	R PRABHAKARAN	NCC 1 01052	519
13	PENN STATE UNIV	B A MERRITT	GSFC	J J BEATTY	NAG 5 5220	444
13	PENN STATE UNIV	B A MERRITT	GSFC	S COUTU	NAG 5 5174	444
13	PENN STATE UNIV	B A MERRITT	WFF	S E COUTU	NAG 5 5250	444
13	PENN STATE UNIV	B MERRITT	GSFC	BEATTY	NAG 5 5248	444
13	PENN STATE UNIV	D HUBBARD	MSFC	M CHAN	NAG 8 1761	449
13	PENN STATE UNIV	J C BRINTON	GSFC	C L CROSKEY	NAG 5 5313	445
13	PENN STATE UNIV	J C BRINTON	GSFC	D N BURROWS	NAG 5 5277	445
13	PENN STATE UNIV	J S LING	GRC	J M TAZBELL	NAG 3 1871	443
13	PENN STATE UNIV	M S BURRELL	GSFC	P LAGUNA	NGT 5 127	451
13	PENN STATE UNIV	W B JOHNSON	GSFC	C L CROSKEY	NAG 5 5256	444
13	PENN STATE UNIV	W B JOHNSON	GSFC	J D MITCHELL	NAG 5 5136	444
13	PENN STATE UNIV	W B JOHNSON	GSFC	J D MITCHELL	NAG 5 5169	444
13	PENN STATE UNIV	W GURKIN	GSFC	D BURROWS	NAG 5 5093	444
13	PRAIRIE VIEW A&M UNIV	H NEEDLEMAN	GSFC	R WILKINS	NAG 5 5130	475
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13	RICE UNIV	D EVANS	GSFC	D R TOFFOLETTO	NAG 5 4726	477
13	RICE UNIV	D HUBBARD	MSFC	R G HULET	NAG 8 1444	478
13	RICE UNIV	D S HUBBARD	MSFC	R G HULET	NAG 8 1766	478
13	RICE UNIV	F CHANG-DIAZ	JSC	A A CHAN	NAG 9 978	478
13	RICE UNIV	J BOHLIN	GSFC	D A WOLF	NAG 5 4267	477
13	RICE UNIV	J GREBOWSKY	GSFC	D W HILL	NAG 5 4822	477
13	RICE UNIV	J GREBOWSKY	GSFC	R A WOLF	NAG 5 8136	477
13	RICE UNIV	M H ACUNA	GSFC	P A CLOUTIER	NAG 5 7037	477
13	RICE UNIV	M MEYYAPPAN	ARC	B YAKOBSON	NAG 2 1401	476
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13	ROCHESTER INST OF TECH	S BAILEY	GRC	D P RAFAELLE	NAG 3 2595	385
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13	SOUTHERN UNIV & A&M COLLEGE	J TUELLER	GSFC	J STACY	NAG 5 7157	235
13	STANFORD UNIV	B S SINGH	GRC	E G SHAQTEH	NAG 3 1843	59
13	STANFORD UNIV	D EVANS	GSFC	D S INAN	NAG 5 4554	60
13	STANFORD UNIV	D HUBBARD	MSFC	J A LIPA	NAG 8 1431	63
13	STANFORD UNIV	D HUBBARD	MSFC	J A LIPA	NAG 8 1436	63
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13	STANFORD UNIV	J W POE	MSFC	J A LIPA	NAG 8 1439	63
13	STANFORD UNIV	M H ACUNA	GSFC	U S INAN	NAG 5 8040	61
13	STANFORD UNIV	M L FONDA	ARC	R B LAUGHLIN	NCC 2 5359	65
13	STANFORD UNIV	M MEYAPPAN	ARC	Z SHEN	NCC 2 5371	65
13	STANFORD UNIV	R S GEVEDEN	MSFC	C W EVERITT	NAS 8 39225	64
13	STANFORD UNIV	T R GOVINDAN	ARC	K CHO	NCC 2 5350	65
13	STANFORD UNIV	W B JOHNSON	GSFC	A B WALKER	NAG 5 5200	60
13	STANFORD UNIV	W J WAGNER	GSFC	P T SCHERER	NAG 5 9784	62
13	STANFORD UNIV	W J WAGNER	GSFC	V PETROSIAN	NAG 5 10976	63
13	STANFORD UNIV	W M HUO	ARC	C H KRUGER	NAG 2 1079	59
13	STANFORD UNIV	W WAGNER	GSFC	D A STURROCK	NAG 5 4038	60
13	STATE UNIV OF NY - STONY BROOK	C TALLEY	MSFC	M DUDLEY	NCC 8 93	391
13	STATE UNIV OF NY - STONY BROOK	P M DOTY	MSFC	D LARSON	NAG 8 1700	391
13	STATE UNIV OF NY - STONY BROOK	W WAGNER	GSFC	M A FORMAN	NAG 5 10995	390
13	STATE UNIV OF NY COL - PLATTSBURGH	E K GIBSON	JSC	G J FLYNN	NAG 9 1109	391
13	TAYLOR UNIV	W B JOHNSON	GSFC	H D VOSS	NAG 5 5184	220
13	TEXAS A&M UNIV	S D GLEN	JSC	R WILLIAMS	NAG 9 1070	482
13	TEXAS A&M UNIV-KINGSVILLE	N KHAZENIE	GSFC	D SUSON	NAG 5 7159	484
13	TEXAS TECH UNIV	B A MERRITT	GSFC	R WIGMANS	NAG 5 5156	485
13	THE AMERICAN UNIV	J L BUFTON	GSFC	R B KAY	NCC 5 269	156
13	THE AMERICAN UNIV	J L BUFTON	GSFC	R B KAY	NCC 5 482	156
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13	UNIV OF NEW HAMPSHIRE - DURHAM	B A MERRITT	GSFC	J M RYAN	NAG 5 5326	346
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13	UNIV OF NEW HAMPSHIRE - DURHAM	B FLOWERS	GSFC	K LYNCH	NAG 5 5124	345
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13	UNIV OF NEW HAMPSHIRE - DURHAM	K OGILVIE	GSFC	R TORBERT	NAG 5 6860	346
13	UNIV OF NEW HAMPSHIRE - DURHAM	L CHRISTENSEN	GSFC	R TORBERT	NAS 5 30744	349
13	UNIV OF NEW HAMPSHIRE - DURHAM	L W GURKIN	GSFC	R ARNOLDY	NAG 5 5057	345
13	UNIV OF NEW HAMPSHIRE - DURHAM	M H ACUNA	GSFC	A B GALVIN	NAG 5 8044	347
13	UNIV OF NEW HAMPSHIRE - DURHAM	M H ACUNA	GSFC	R B TOBBERT	NAG 5 8041	347
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13	UNIV OF OREGON - EUGENE	B S SINGH	GRC	D J DONNELLY	NAG 3 1934	435
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13	UNIV OF ROCHESTER	C R MCCREIGHT	ARC	W J FORREST	NAG 2 1142	393
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13	UNIV OF SOUTHERN CALIFORNIA	J BRINTON	WFF	D JUDGE	NAG 5 5333	116
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13	UNIV OF TENNESSEE - KNOXVILLE	J POE	MSFC	A J SANDERS	NAG 8 1442	471
13	UNIV OF TENNESSEE - KNOXVILLE	P DOTY	MSFC	L W TOWNSEND	NAG 8 1669	471
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13	UNIV OF TEXAS - AUSTIN	G SCHWARZE	GRC	D D DUPUIS	NAG 3 2633	492
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13	UNIV OF TEXAS - DALLAS	M M MELLOTT	GSFC	D A HEELIS	NAG 5 4465	498
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13	UNIV OF TEXAS - EL PASO	B PENN	MSFC	C DIRK	NAG 8 1393	500
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13	UNIV OF TEXAS - EL PASO	M H ACUNA	GSFC	R E LOPEZ	NAG 5 8882	499
13	UNIV OF TEXAS - EL PASO	M H ACUNA	GSFC	R E LOPEZ	NAG 5 8883	499
13	UNIV OF TOLEDO	D REDDY	GRC	T G KEITH	NCC 3 855	427
13	UNIV OF VERMONT	W JOHNSON	GSFC	T KELLER	NAG 5 5135	506
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13	UNIV OF VIRGINIA	T L PARROTT	LARC	W E ZORUMSKI	NCC 1 361	526
13	UNIV OF WASHINGTON	B S SINGH	GRC	W NAGOURNEY	NAG 3 1865	534
13	UNIV OF WASHINGTON	J C BRINTON	GSFC	J D SAHR	NAG 5 5294	536
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13	UNIV OF WASHINGTON	J L CHRISTENSEN	GSFC	G K PARKS	NAS 5 30613	541
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13	UNIV OF WISCONSIN - MADISON	A NURRIDIN	HQ	P TIMBIE	NGT 5 50185	555
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13	UNIV OF WISCONSIN - MILWAUKEE	R C SINGLETERRY, JR.	LARC	S R BLATTNING	NGT 1 52217	555
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13	UTAH STATE UNIV	P H PLESS	GSFC	J C ULWICK	NAG 5 5046	504
13	UTAH STATE UNIV	S NASH-STEVENSON	MSFC	J DENNISON	NGT 8 52885	506
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13	UTAH STATE UNIV	W B JOHNSON	GSFC	C M SWENSON	NAG 5 5187	504
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13	UTAH STATE UNIV	W B JOHNSON	GSFC	J C ULWICK	NAG 5 5245	504
13	VA POLYTECH INST & ST UNIV	J C BRINTON	GSFC	W SCALES	NAG 5 5295	530
13	VANDERBILT UNIV	J GRANT	GSFC	D SAUMON	NAG 5 8906	472
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13	WASHINGTON STATE UNIV	N HALL	ARC	M A OSMAN	NCC 2 5407	544
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19	BOSTON UNIV	R HOFFMAN	GSFC	H E SPENCER	NAG 5 7706	278
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19	CALIFORNIA INST OF TECH	P DOTY	MSFC	J BRADY	NAG 8 1661	48
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19	CALIFORNIA STATE UNIV - NORTHRIDGE	J GURMAN	GSFC	A CADAVID	NAG 5 10880	52
19	CALIFORNIA STATE UNIV - NORTHRIDGE	J GURMAN	GSFC	G A CHAPMAN	NAG 5 7878	52
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19	CORNELL UNIV	G GUYNES	MSFC	R E THORNE	NAG 8 1831	380
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19	DUKE UNIV	D HUBBARD	MSFC	J E THOMAS	NAG 8 1781	395
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19	FLORIDA STATE UNIV	D HUBBARD	MSFC	E MANOUSAKIS	NAG 8 1773	168
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19	HAHNEMANN UNIV	B GUYNES	MSFC	P J LOLL	NAG 8 1840	441
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19	INDIANA UNIV - BLOOMINGTON	D HUBBARD	MSFC	V A KOSTELECKY	NAG 8 1770	216
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19	MICHIGAN STATE UNIV	J GURMAN	GSFC	R F STEIN	NAG 5 8053	307
19	MICHIGAN TECHNOLOGICAL UNIV	C TALLEY	MSFC	T H COURTNEY	NAG 8 1478	309
19	MIDDLE TENNESSEE STATE UNIV	C TALLEY	MSFC	A C FRIEDLI	NAG 8 1486	468
19	NEW JERSEY INST OF TECH	J GURMAN	GSFC	H WANG	NAG 5 7837	350
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19	NEW JERSEY INST OF TECH	J GURMAN	GSFC	H WANG	NAG 5 10910	351
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19	NORTH CAROLINA STATE UNIV	G MADDREA	LARC	V SAXENA	NAS 1 18944	401
19	NORTH CAROLINA STATE UNIV	P DOTY	MSFC	N DIETZ	NAG 8 1686	401
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19	OHIO STATE UNIV	D W GRIFFIN	GRC	C D ANDERECK	NAG 3 2138	413
19	OLD DOMINION UNIV	M A TALLEY	LARC	G R HOY	NAG 1 2211	516
19	OREGON STATE UNIV	B BILLS	GSFC	G D EGBERT	NAG 5 6156	431
19	OREGON STATE UNIV	D STARR	GSFC	M H FREILICH	NAG 5 11105	433
19	PENN STATE UNIV	C TALLEY	MSFC	R M GERMAN	NAG 8 1452	448
19	PENN STATE UNIV	D L UBRAN	GRC	R A YETTER	NCC 3 718	450
19	PENN STATE UNIV	P DOTY	MSFC	J SINGH	NAG 8 1272	448
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19	THE SCRIPPS REASERCH INST	B GUYNES	MSFC	G A CHANG	NAG 8 1834	67
19	TUFTS UNIV	J GURMAN	GSFC	K R LANG	NAG 5 8115	300
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19	UNIV OF WISCONSIN - MADISON	D O STARR	GSFC	S T GOWER	NAG 5 6457	548
19	UNIV OF WISCONSIN - MADISON	D S HUBBARD	MSFC	T G WALKER	NAG 8 1783	553
19	UNIV OF WISCONSIN - MADISON	D STARR	GSFC	D C TOBIN	NAG 5 11155	552
19	UNIV OF WISCONSIN - MADISON	P DOTY	MSFC	J N PEREPEZKO	NAG 8 1672	552
19	UNIV OF WISCONSIN - MADISON	R L KELLEY	GSFC	D MCCAMMON	NAG 5 2720	547
19	VANDERBILT UNIV	R HOFFMAN	GSFC	C CHAPPELL	NAG 5 9565	472
19	VIRGINIA COMMONWEALTH UNIV	D R WOODARD	MSFC	S EL-SHALL	NAG 8 1276	533
19	WASHINGTON STATE UNIV	C R TALLEY	MSFC	B Q LI	NCC 8 92	544
19	WASHINGTON STATE UNIV	C TALLEY	MSFC	B Q LI	NAG 8 1477	544
19	WASHINGTON STATE UNIV	P M DOTY	MSFC	B Q LI	NAG 8 1693	544
19	WASHINGTON UNIV - ST	E K STANSBERY	JSC	F A PODOSEK	NAG 9 1010	336
19	WASHINGTON UNIV - ST	K E CYR	JSC	C M HOHENBERG	NAG 9 1006	336
19	WASHINGTON UNIV - ST	P DOTY	MSFC	K F KELTON	NCC 8 85	336
19	WORCESTER POLYTECH INST	K E CYR	JSC	K M RUTLEDGE	NAG 9 1014	306
19	YALE UNIV	C STAHL	GSFC	D E PROBER	NAG 5 9595	147
19	YALE UNIV	J GURMAN	GSFC	S BASU	NAG 5 10912	148
21	ALABAMA A&M UNIV	D O FRAZIER	MSFC	M A ELSHAMY	NAG 8 1560	1
21	ALABAMA A&M UNIV	J DOWDY	MSFC	E TEMPLE	NAG 8 1643	2
21	ALABAMA A&M UNIV	W LOVE	MSFC	B CADY	NAG 8 1642	2
21	CALIFORNIA POLYTECH STATE U-SAN LUIS	S YEE	DFRC	R A WARD	NAG 4 202	50
21	CLARK ATLANTA UNIV	E ORDONEZ	MSFC	E MCDONALD	NAG 8 1814	181
21	CLARK ATLANTA UNIV	W LOVE	MSFC	A MSEZANE	NAG 8 1493	181
21	CORNELL UNIV	R J OLIVERSEN	GSFC	S S EIKENBERRY	NAG 5 9178	378
21	ELIZABETH CITY STATE UNIV	M ANDRO	GRC	D SENGUPTA	NAG 3 2150	396
21	GEORGE WASHINGTON UNIV	H C NEEDLEMAN	GSFC	F BAGINSKI	NAG 5 697	152
21	HOWARD UNIV	S FUNG	GSFC	R BOURGIN	NAG 5 6066	154
21	IOWA STATE UNIV	P J HALEY	LARC	A G KELKAR	NCC 1 01047	223
21	KANSAS STATE UNIV	P J HALEY	LARC	A G KELKAR	NAG 1 2234	228
21	KANSAS STATE UNIV	P J HALEY	LARC	A G KELKAR	NCC 1 225	228
21	KANSAS STATE UNIV	P J HALEY	LARC	A G KELKAR	NCC 1 400	228
21	MOREHOUSE COLLEGE	A BEAM	MSFC	E MCDONALD	NAG 8 1492	188
21	MORGAN STATE UNIV	B MARKHAMR	GSFC	J SMID	NAG 5 4401	253
21	NY UNIV	D S SPICER	GSFC	M BERGER	NAG 5 7583	383
21	NORTH CAROLINA STATE UNIV	J S HARRISON	LARC	R C SMITH	NAG 1 01041	399

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21	NORTH CAROLINA STATE UNIV	W P WINIFREE	LARC	H T BANKS	NGT 1 01032	401
21	OHIO STATE UNIV	R OLIVERSEN	GSFC	S MATHUR	NAG 5 8913	416
21	OLD DOMINION UNIV	K S BEY	LARC	H KANEKO	NAG 1 01092	517
21	SALISH KOOTENAI COLLEGE	B MEESON	GSFC	T OLSON	NAG 5 9541	339
21	SOUTH DAKOTA SCH OF MINES & TECH	N KHAZENIE	GSFC	F CAMPONE	NAG 5 7746	466
21	SOUTHERN UNIV & A&M COLLEGE	A BEAM	MSFC	M C DUNN	NAG 8 1633	236
21	SOUTHERN UNIV & A&M COLLEGE	A JOYCE	SSC	M SUBBLEFIELD	NAG13 98013	236
21	SOUTHERN UNIV - NEW ORLEANS	N SULLIVAN	JSC	P HEATH	NAG13 52	236
21	TRENHOLM STATE TECH COLLEGE	W LOVE	MSFC	C THOMPSON	NAG 8 1610	4
21	UNIV OF AKRON	M BRIGHT	GRC	H K QAMMAR	NAG 3 2494	420
21	UNIV OF CALIFORNIA - DAVIS	D KWAK	ARC	M HAFEZ	NCC 2 5447	82
21	UNIV OF COLORADO - BOULDER	E A PALMER	ARC	P POISON	NCC 2 1104	139
21	UNIV OF NEW MEXICO-ALBUQUERQUE	J GOODRICH	GRC	D HAGSTROM	NAG 3 2322	364
21	UNIV OF NEW ORLEANS	R TRAVIS	SSC	K M AKYUZLU	NGT13 52721	237
21	UNIV OF TEXAS - EL PASO	R LEE	KSC	D ROJO	NAG10 287	500
21	UNIV OF TEXAS AT SAN ANTONIO	F SAFIE	MSFC	M P BERRIOZABAL	NAG 9 950	501
21	UNIV OF TEXAS AT SAN ANTONIO	L M ARMENDARIZ	JSC	M P BERRIOZABAL	NAG 9 1301	501
21	UNIV OF WASHINGTON	G SOFFEN	GSFC	J BURKE	NGT 5 66	542
21	WESLEYAN UNIV	R J OLIVERSEN	GSFC	K V JOHNSTON	NAG 5 9064	146
21	XAVIER UNIV - LOUISIANA	W LOVE	MSFC	R P HALE	NAG 8 1609	238
22	ADAMS STATE COLLEGE	M R LOWRY	ARC	S ROACH	NCC 2 5337	119
22	ARIZONA STATE UNIV	B L DI VITO	LARC	G C GANNOD	NAG 1 2241	19
22	ARIZONA STATE UNIV	R A MORRIS	ARC	S KAMBHAMPPATI	NAG 2 1461	19
22	ARIZONA STATE UNIV	R MORRIS	ARC	C BARAL	NCC 2 1232	23
22	ARIZONA STATE UNIV	R MORRIS	ARC	S KAMBHAMPPATI	NCC 2 1225	23
22	BOSTON UNIV	J C OUGHLAN	ARC	R B MYNENI	NCC 2 1233	280
22	BOWIE STATE UNIV	D MENCHAN	GSFC	J LANGDON	NAG 5 7225	239
22	BOWIE STATE UNIV	H PARK	GSFC	D CARVALO	NCC 5 446	240
22	BOWIE STATE UNIV	P L CROUSE	GSFC	N T WAKIM	NAG 5 11361	240
22	BOWIE STATE UNIV	W TRUSZKOWSKI	GSFC	S SRIVASTAVA	NCC 5 235	240
22	BROWN UNIV	M SHAFTO	ARC	S A SLOMAN	NCC 2 1217	459
22	CALIFORNIA INST OF TECH	J FISCHER	GSFC	T STERLING	NAG 5 8576	45
22	CARNEGIE - MELLON UNIV	C L FARMER	JSC	R SIMMONS	NAG 9 1326	438
22	CARNEGIE - MELLON UNIV	D CLANCY	ARC	R SIMMONS	NCC 2 5438	439
22	CARNEGIE - MELLON UNIV	J COUGHLAN	ARC	C GLYMOUR	NCC 2 1227	439
22	CARNEGIE - MELLON UNIV	M E DUENAS	ARC	J H MORRIS	NCC 2 1188	438
22	CARNEGIE - MELLON UNIV	M H SIMS	ARC	W L WHITTAKER	NGT 2 52277	439
22	CARNEGIE - MELLON UNIV	M LOWRY	ARC	R G SIMMONS	NCC 2 1402	436
22	CARNEGIE - MELLON UNIV	M MATESSA	ARC	J R ANDERSON	NCC 2 1226	439
22	CARNEGIE - MELLON UNIV	M P MATESSA	ARC	B JOHN	NAG 2 1472	436
22	CARNEGIE - MELLON UNIV	M SHIRLEY	ARC	R SIMMONS	NAG 2 1393	436
22	CARNEGIE - MELLON UNIV	N MUSCETTOLA	ARC	J SCHNEIDER	NAG 2 1408	436
22	CARNEGIE - MELLON UNIV	P E HUNTER	GSFC	J SCHNEIDER	NAG 5 10739	437
22	CARNEGIE - MELLON UNIV	R MORRIS	ARC	J WING	NCC 2 1241	439
22	CARNEGIE - MELLON UNIV	R MORRIS	ARC	R SIMMONS	NCC 2 1243	439
22	CARNEGIE - MELLON UNIV	TL ROUGH	ARC	C GLYMOUR	NCC 2 1026	438
22	CAYUGA COUNTY COMM COLLEGE	W CAMPBELL	GSFC	R BROWN	NAG 5 7473	367
22	CENTRAL WASHINGTON UNIV	H V FREY	GSFC	C RUBIN	NAG 5 10501	533
22	CITY UNIV OF NY CITY COLLEGE	J HARRINGTON	GSFC	S AUSTIN	NCC 5 98	368
22	CITY UNIV OF NY CITY COLLEGE	J TILTON	GSFC	G WOLBERG	NAG 5 7129	368
22	CLEMSON UNIV - CLEMSON	G A SOFFEN	GSFC	LIGON	NGT 5 78	464
22	CLEMSON UNIV - CLEMSON	G A SOFFEN	GSFC	W LIGON	NGT 5 85	464
22	CLEMSON UNIV - CLEMSON	G SOFFEN	GSFC	W B LIGON	NGT 5 109	464
22	CLEMSON UNIV - CLEMSON	J DORBAND	GSFC	D LIGON III	NAG 5 10018	463
22	CLEMSON UNIV - CLEMSON	K MOE	GSFC	W LIGON	NAG 5 8605	462
22	CLEMSON UNIV - CLEMSON	P CORONADO	GSFC	D SASS	NAG 5 11329	463
22	CLEVELAND STATE UNIV	C KIM	GRC	J SANG	NAG 3 2509	410
22	COLLEGE OF WILLIAM AND MARY	P W GOODE	LARC	A S MINER	NGT 1 52195	508
22	COLLEGE OF WILLIAM AND MARY	P W GOODE	LARC	G CIARDO	NAG 1 2168	507
22	COLLEGE OF WILLIAM AND MARY	R HATHAWAY	LARC	N M ALEXANDROV	NGT 1 01008	508
22	DEPAUL UNIV	R W REMINGTON	ARC	C S MILLER	NCC 2 5414	200
22	DINE COLLEGE	L K ALDERETE	ARC	A SAM	NAG 2 6012	24
22	DREXEL UNIV	J FISCHER	GSFC	D VALLIERES	NAG 5 10026	440
22	EAST CAROLINA UNIV	J P ZIEBARTH	ARC	J C HUSKAMP	NAG 2 6045	396

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22	ELIZABETH CITY STATE UNIV	J HARRINGTON	GSFC	L HAYDEN	NCC 5 121	396
22	FLA INTERNATIONAL UNIV	M GROH-HAMMOND	KSC	M CENTENO	NAG10 292	163
22	FLA INTERNATIONAL UNIV	O MELENDEZ	KSC	I BECERRA-FERNANDEZ	NAG10 307	163
22	FLA INTERNATIONAL UNIV	S ROBERTS	KSC	I BECCERA-FERNANDEZ	NAG10 259	163
22	FLORIDA ATLANTIC UNIV	S YASSINI	ARC	T G KHOSGOFTAR	NCC 2 1141	165
22	GEORGE MASON UNIV	J DORBAND	GSFC	P Y WANG	NAG 5 9781	509
22	GEORGE MASON UNIV	J J REHDER	LARC	T ARCISZEWSKI	NAG 1 2258	509
22	GEORGE MASON UNIV	K L MOE	GSFC	D KAFATOS	NAG 5 10177	509
22	GEORGE WASHINGTON UNIV	E TORREZ-MARTINEZ	GSFC	D A WILLIAMSON	NAG 5 10539	152
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22	GEORGE WASHINGTON UNIV	J LE MOIGNE	GSFC	T EL-GHAZAWI	NAG 5 11101	152
22	GEORGE WASHINGTON UNIV	R BISWAS	ARC	M MYERS	NAG 2 1456	152
22	GEORGIA INST OF TECH	C M FALSETTI	ARC	I F AKYILDIZ	NAG 2 1262	182
22	GEORGIA INST OF TECH	F J MONTEGANI	GRC	E W ZEGURA	NGT 3 52329	187
22	GEORGIA INST OF TECH	J CATENA	GSFC	C MITCHELL	NAG 5 7519	184
22	GEORGIA INST OF TECH	P C SCHUTTE	LARC	A R PRITCHETT	NAG 1 2175	182
22	GEORGIA INST OF TECH	W TRUSZOKWSKI	GSFC	C MITCHELL	NAG 5 7420	184
22	HARVARD UNIV	R A MORRIS	ARC	A J PFEFFER	NCC 2 1236	285
22	HOWARD UNIV	J STEPHENS	GSFC	C GLOTZER	NAS 5 00214	155
22	HOWARD UNIV	W TRUSZKOWSKI	GSFC	J TRIMBLE	NAG 5 8790	155
22	INDIANA UNIV	T BABRAUCKAS	GRC	A ECER	NAG 3 2260	214
22	INDIANA UNIV - BLOOMINGTON	M E LIVINGSTON	ARC	D B LEAKE	NCC 2 1035	216
22	INDIANA UNIV - BLOOMINGTON	M G SHAFTO	ARC	D B LEAKE	NCC 2 1216	216
22	INDIANA UNIV - BLOOMINGTON	P S MINER	LARC	S D JOHNSON	NGT 1 01009	216
22	IOWA STATE UNIV	M R LOWRY	ARC	A KELKAR	NAG 2 1471	222
22	JACKSON STATE UNIV	B A BIEGEL	ARC	Q MALLUHI	NAG 2 1485	326
22	JOHNS HOPKINS UNIV	G H MUCKLOW	GSFC	S HAWKINS	NAG 5 8688	245
22	JOHNS HOPKINS UNIV	H STEWART	ARC	K J HEERES	NAG 2 1476	241
22	JOHNS HOPKINS UNIV	M SHIRLEY	ARC	K J HEERES	NAG 2 1477	241
22	JOHNS HOPKINS UNIV	P E HUNTER	GSFC	P Z KUNSZT	NAG 5 10742	249
22	KANSAS STATE UNIV	M R LOWRY	ARC	D A SCHMIDT	NAG 2 1209	228
22	LA SALLE UNIV	D G SICKOREZ	JSC	M TAVANA	NAG 9 1196	441
22	LOUISIANA STATE UNIV - BATON ROUGE	S SAINI	ARC	A NAKANO	NCC 2 5320	234
22	LOYOLA COLLEGE	J LE MOIGNE	GSFC	P EASTMAN	NAG 5 10230	253
22	MASSACHUSETTS INST OF TECH	D E ECKMARDT	LARC	N LEVESON	NAG 1 2239	287
22	MASSACHUSETTS INST OF TECH	D L KAO	ARC	R HAIMES	NCC 2 985	298
22	MASSACHUSETTS INST OF TECH	J REUTHER	ARC	R HAIMES	NCC 2 1269	298
22	MASSACHUSETTS INST OF TECH	M J AFTOSMIS	ARC	R HAIMES	NAG 2 1458	288
22	MASSACHUSETTS INST OF TECH	M M ESHOW	ARC	D N JACKSON	NAG 2 1338	287
22	MASSACHUSETTS INST OF TECH	P M JONES	ARC	N G LEVESON	NCC 2 1223	298
22	MASSACHUSETTS INST OF TECH	R A MORRIS	ARC	S ZILBERSTEIN	NAG 2 1463	288
22	MASSACHUSETTS INST OF TECH	R MORRIS	ARC	B C WILLIAMS	NCC 2 1235	298
22	MASSACHUSETTS INST OF TECH	R MORRIS	ARC	B WILLIAMS	NAG 2 1466	288
22	MASSACHUSETTS INST OF TECH	R MORRIS	ARC	L KAEHLING	NCC 2 1237	298
22	MASSACHUSETTS INST OF TECH	S LAU	ARC	B C WILLIAMS	NAG 2 1388	288
22	MASSACHUSETTS INST OF TECH	S LAU	ARC	L R YOUNG	NCC 2 570	298
22	MASSACHUSETTS INST OF TECH	S YASSINI	ARC	N LEVESON	NCC 2 1150	298
22	MASSACHUSETTS INST OF TECH	Y K LIU	ARC	R L RIVEST	NAG 2 1136	287
22	MICHIGAN TECHNOLOGICAL UNIV	J R FISCHER	GSFC	D MERKEY	NAG 5 8796	309
22	MORGAN STATE UNIV	J BENNETT	GSFC	W LUPTON	NCC 5 122	254
22	MORGAN STATE UNIV	J MOIGNE	GSFC	D COLE-RHODES	NAG 5 10934	254
22	NEW MEXICO STATE UNIV - LAS CRUCES	R E STREITMATTER	GSFC	S STOCHAJ	NCC 5 422	363
22	NORTH CAROLINA A&T STATE UNIV	M G SHATTO	ARC	A C ESTERLINE	NAG 2 1413	397
22	NORTH CAROLINA A&T STATE UNIV	W TRUSZKOWSKI	GSFC	A ESTERLINE	NAG 5 4102	398
22	NORTH CAROLINA STATE UNIV	P S GHUMAN	GSFC	C GLOSTER	NAG 5 7942	400
22	NORTHWESTERN UNIV	A GRADY	ARC	V E TAYLOR	NCC 2 1013	203
22	NORTHWESTERN UNIV	M H SHIRLEY	ARC	K D FORBUS	NCC 2 1017	203
22	OHIO STATE UNIV	D L KAO	ARC	H SHEN	NCC 2 1261	418
22	OHIO UNIV	B B PFARR	GSFC	L WELCH	NAG 5 10349	419
22	OHIO UNIV	B PFAR	GSFC	L WELCH	NAS 5 00185	419
22	OHIO UNIV	J M SEATON	LARC	R L WILLIAMS	NAG 1 2099	419
22	OLD DOMINION UNIV	E SIMAN-TOV	LARC	R MUKKAMALA	NAG 1 2143	515
22	OLD DOMINION UNIV	J N MOSS	LARC	D E KEYES	NAG 1 01076	517
22	OLD DOMINION UNIV	M M LITTLE	LARC	K MALY	NAG 1 99160	518
22	OLD DOMINION UNIV	R SAVELY	JSC	R LOFTIN	NAG 9 1270	518

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22	OLD DOMINION UNIV	W H BRYANT	LARC	I B LEVINSTEIN	NAG 1 2323	516
22	OREGON GRADUATE INST OF SCI & TECH	I TUMER	ARC	T LEEN	NCC 2 1264	431
22	OREGON GRADUATE INST OF SCI & TECH	J SKILES	ARC	M PAVEL	NCC 2 1218	431
22	OREGON GRADUATE INST OF SCI & TECH	T R GOVINDAN	ARC	M A JABRI	NCC 2 1253	431
22	OREGON STATE UNIV	K MOE	GSFC	M S ABBOTT	NAG 5 8400	432
22	PENN	R OLIVERSEN	GSFC	R F KNACKE	NAG 5 3368	442
22	PENN STATE UNIV	A J AHUMADA	ARC	R KASTURI	NAG 2 1410	443
22	PENN STATE UNIV	A J AHUMADA	ARC	R KASTURI	NAG 2 1487	443
22	PENN STATE UNIV	J C NEWMAN	LARC	P RAGHAVAN	NAG 1 01085	442
22	PENN STATE UNIV	J E PALLIX	ARC	J L WISE	NCC 2 1211	450
22	PRAIRIE VIEW A&M UNIV	J HARINGTON	GSFC	J R WILLIAMS	NCC 5 115	476
22	PRINCETON UNIV	M MEYYAPPAN	ARC	I AKSAY	NAG 2 1475	352
22	PURDUE UNIV	A NURRIDIN	HQ	L H JAMIESON	NGT 5 50222	220
22	PURDUE UNIV	C A HLAVKA	ARC	C BRODLEY	NCC 2 1245	219
22	RICE UNIV	D FOLTZ	GRC	D B JOHNSON	NAG 3 2534	477
22	RICE UNIV	J R FISCHER	GSFC	K KENNEDY	NAG 5 2736	477
22	RUTGERS ST UNIV N	M R LOWRY	ARC	S AMAREL	NAG 2 1234	356
22	RUTGERS ST UNIV N	R PETRE	GSFC	J HUGHES	NAG 5 6420	357
22	RUTGERS STATE UNIV OF NJ NEW BRUNS	M SCHWABACHER	ARC	H HIRSCH	NCC 2 1259	360
22	SAN FRANCISCO STATE UNIV	P R GRAMS	ARC	H SHAHNASSER	NCC 2 5301	55
22	SAN JOSE STATE UNIV	D KOZARSKY	ARC	G POUR	NAG 2 1421	55
22	SAN JOSE STATE UNIV	M E LIVINGSTON	ARC	R FATOOHI	NCC 2 1015	56
22	SAN JOSE STATE UNIV	T A LASINSKI	ARC	R FATOOHI	NCC 2 1071	56
22	SOUTH CAROLINA STATE UNIV	J BENNETT	GSFC	D K WALTER	NCC 5 116	465
22	SOUTHERN UNIV & A&M COLLEGE	D F NOGA	GRC	D MOREMAN	NAG 3 2076	235
22	SOUTHERN UNIV & A&M COLLEGE	G S LEE	ARC	S K TRIVEDI	NAG 2 1159	235
22	SOUTHERN UNIV & A&M COLLEGE	P NORVIG	ARC	C DEBESSONET	NAG 2 1273	235
22	SOUTHERN UNIV & A&M COLLEGE	R MORRIS	ARC	C DEBESSONER	NAG 2 1468	235
22	STANFORD UNIV	J A KURIEN	ARC	R E FIKES	NAG 2 1337	59
22	STANFORD UNIV	M G BUALAT	ARC	S ROCK	NCC 2 1154	64
22	STANFORD UNIV	M GERALD-YAMASAKI	ARC	H GARCIA-MOLINA	NCC 2 5278	65
22	STANFORD UNIV	N N MANSOUR	ARC	E F DARVE	NCC 2 5467	66
22	STANFORD UNIV	P S MINER	LARC	D L DILL	NAS 1 98139	64
22	STANFORD UNIV	R MORRIS	ARC	S M ROCK	NAG 2 1464	59
22	STANFORD UNIV	W J CLANCY	ARC	L J LEIFFER	NAG 2 1257	59
22	STATE UNIV OF NY - STONY BROOK	D WEST	GSFC	F SWETSY	NAG 5 8377	390
22	SYRACUSE UNIV	C COLES-HAMILTON	GRC	N AVAILABLE	NAS 3 00172	393
22	SYRACUSE UNIV	E J MASUOKA	GSFC	P K VARSHNEY	NAG 5 11227	393
22	TENNESSEE STATE UNIV	J HARRINGTON	GSFC	W A SMITH	NCC 5 96	468
22	TENNESSEE STATE UNIV	K A FREEMAN	ARC	W A SMITH	NAG 2 1419	468
22	TENNESSEE STATE UNIV	K BALLARD	KSC	S SINGH DEVGAN	NAG10 217	468
22	TENNESSEE STATE UNIV	M E DUENAS	ARC	W A SMITH	NCC 2 1205	468
22	TENNESSEE STATE UNIV	S P COLOMBANO	ARC	M S ZEIN-SABATTO	NAG 2 1473	468
22	TEXAS A&M UNIV-KINGSVILLE	W LOVE	MSFC	B SCHREUR	NAG 8 1650	485
22	TEXAS SOUTHERN UNIV	Y O GAWDIAK	ARC	O H CRINER	NAG 2 1447	485
22	THE UNIV OF CENTRAL FLORIDA	C G STEVENSON	KSC	F J GOMEZ	NAG10 273	170
22	THE UNIV OF CENTRAL FLORIDA	J PENIX	ARC	G H WALTON	NAG 2 1465	169
22	TOWSON STATE UNIV	W TRUSZKOWSKI	GSFC	B N NAG	NCC 5 488	254
22	TUFTS UNIV	J F DOWDY	MSFC	K P LENTL	NAG 8 1311	301
22	UNIV HOUSTON-HOUSTON	J YAN	ARC	B CHAPMAN	NCC 2 5394	487
22	UNIV HOUSTON-HOUSTON	R P KEHOE	JSC	G VALIAS	NAG 9 1223	487
22	UNIV HOUSTON-HOUSTON	R SAVELY	JSC	B LOFTIN	NAG 9 985	486
22	UNIV OF MINN	C S POTTER	ARC	V KUMAR	NCC 2 1231	324
22	UNIV OF MINN	J BREDEKAMP	GSFC	P M HUMPHREYS	NAG 5 3998	321
22	UNIV OF MINN	R MORRIS	ARC	M HEIMDAHL	NCC 2 1240	324
22	UNIV OF MINN	R W BUTLER	LARC	M E HEMDAHL	NAG 1 2242	320
22	UNIV	P M JONES	ARC	J ZHANG	NCC 2 1234	490
22	UNIV	R T SAVELY	JSC	H WANG	NAG 9 1247	490
22	UNIV OF ALABAMA - HUNTSVILLE	J BEHNKE	GSFC	D GRAVES	NAG 5 9585	10
22	UNIV OF ALABAMA - HUNTSVILLE	J BREDEKAMP	GSFC	D G RICHARDS	NAG 5 4003	7
22	UNIV OF ALABAMA - HUNTSVILLE	K L MOE	GSFC	D GRAVES	NAG 5 10407	10
22	UNIV OF ALABAMA - HUNTSVILLE	S LAU	ARC	M BOTTS	NAS 2 00102	12
22	UNIV OF ALABAMA - HUNTSVILLE	S LAU	ARC	S GRAVES	NAS 2 01003	12
22	UNIV OF ARIZONA	P E HUNTER	GSFC	M V SYKES	NAG 5 10749	35
22	UNIV OF ARIZONA	S LAU	ARC	T MILSTER	NAS 2 00117	38

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22	UNIV OF CALIFORNIA - BERKELEY	J BREDEKAMP	GSFC	G SMOOT	NAG 5 3941	69
22	UNIV OF CALIFORNIA - BERKELEY	J D SMITH	ARC	S S SASTRY	NGT 2 52259	77
22	UNIV OF CALIFORNIA - BERKELEY	M M SIMS	ARC	L W STARK	NAG 2 1135	67
22	UNIV OF CALIFORNIA - BERKELEY	M R LOWREY	ARC	T A HENZINGER	NAG 2 1214	68
22	UNIV OF CALIFORNIA - BERKELEY	M R LOWRY	ARC	A AOLEM	NAG 2 1210	67
22	UNIV OF CALIFORNIA - DAVIS	A VAZIRI	ARC	B HAMANN	NAG 2 1216	80
22	UNIV OF CALIFORNIA - DAVIS	C M FALSETTI	ARC	M BISHOP	NAG 2 1251	80
22	UNIV OF CALIFORNIA - DAVIS	D KWAK	ARC	M HAFEZ	NCC 2 5387	82
22	UNIV OF CALIFORNIA - DAVIS	S DAINI	ARC	J DONGARRA	NCC 2 5313	82
22	UNIV OF CALIFORNIA - DAVIS	W R VAN DALSEM	ARC	J J CHATTOT	NAG 2 1459	80
22	UNIV OF CALIFORNIA - LOS ANGELES	B H WHITAKER	ARC	M GERLA	NAG 2 1249	87
22	UNIV OF CALIFORNIA - LOS ANGELES	T J BARTH	ARC	T F CHAN	NAG 2 1238	87
22	UNIV OF CALIFORNIA - SAN DIEGO	C H SCHULBACK	ARC	F BERMAN	NGT 2 52251	104
22	UNIV OF CALIFORNIA - SAN DIEGO	J BREDEKAMP	GSFC	D C PUETTER	NAG 5 3944	97
22	UNIV OF CALIFORNIA - SANTA BARBARA	K MOE	GSFC	L L HILL	NAG 5 8542	107
22	UNIV OF CALIFORNIA - SANTA CRUZ	A VAZIRI	ARC	A PANG	NCC 2 5281	113
22	UNIV OF CALIFORNIA - SANTA CRUZ	A VAZIRI	ARC	A VANGELDER	NAG 2 1239	111
22	UNIV OF CALIFORNIA - SANTA CRUZ	D L KAO	ARC	A PANG	NCC 2 1260	113
22	UNIV OF CHICAGO	D SPICER	GSFC	D OLSON	NAG 5 9016	206
22	UNIV OF COLORADO - BOULDER	D CAREK	GRC	E HANSEN	NAG 3 2643	124
22	UNIV OF COLORADO - BOULDER	G MUCKLOW	GSFC	E R HANSEN	NAG 5 8643	131
22	UNIV OF COLORADO - BOULDER	J BREDEKAMP	GSFC	M M LIGHTNER	NAG 5 3997	125
22	UNIV OF COLORADO - BOULDER	K L MOE	GSFC	R L WEAVER	NAG 5 11292	138
22	UNIV OF COLORADO - BOULDER	K MOE	GSFC	R L WEAVER	NAG 5 8399	131
22	UNIV OF CONNECTICUT	F MARTIN	JSC	M MOREAU	NAG 9 1243	145
22	UNIV OF DAYTON	W D IVANCIC	GRC	M ATIUZZAMAN	NAG 3 2318	424
22	UNIV OF DELAWARE	J RASH	GSFC	C SHEN	NAG 5 11232	150
22	UNIV OF FLORIDA	A T LEE	JSC	Y H LEE	NCC 9 84	175
22	UNIV OF FLORIDA	H PARTRIDGE	ARC	S SINNOTT	NCC 2 5403	175
22	UNIV OF GREENWICH	S SAINI	ARC	M CROSS	NAG 2 1339	558
22	UNIV OF HAWAII AT MANOA - HONOLULU	R OLIVERSEN	GSFC	R D JOSEPH	NAG 5 3370	191
22	UNIV OF HOUSTON - CLEAR LAKE	R T SAVELY	JSC	E T DICKERSON	NCC 9 30	490
22	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	C CARLISLE	GSFC	M FOLK	NAG 5 2040	210
22	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	G A SOFFEN	GSFC	P SAYLOR	NGT 5 84	214
22	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	K A FREEMAN	ARC	K NAHRSTEDT	NAG 2 1250	209
22	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	K A FREEMAN	ARC	K NAHRSTEDT	NAG 2 1406	209
22	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	R MORRIS	ARC	B J WAH	NCC 2 1230	213
22	UNIV OF IOWA	M H SIMS	ARC	G W THOMAS	NAG 2 1167	225
22	UNIV OF MARYLAND - COLLEGE PARK	H PARK	GSFC	C F MARTIN	NCC 5 353	270
22	UNIV OF MARYLAND - COLLEGE PARK	J BREDEKAMP	GSFC	D C GOODRICH	NAG 5 4313	257
22	UNIV OF MARYLAND - COLLEGE PARK	J LEMONIGNE	GSFC	J JAJA	NAG 5 6699	259
22	UNIV OF MARYLAND - COLLEGE PARK	P E HUNTER	GSFC	M G WOLFIRE	NAG 5 10751	266
22	UNIV OF MARYLAND BALTIMORE COUNTY	A ROBERTS	GSFC	D S EBERT	NCC 5 361	275
22	UNIV OF MARYLAND BALTIMORE COUNTY	J SKILES	ARC	H KARGUPTA	NCC 2 1252	275
22	UNIV OF MASSACHUSETTS - AMHERST	J BRESINA	ARC	S ZILBERSTEIN	NAG 2 1394	302
22	UNIV OF MASSACHUSETTS - AMHERST	J BRESINA	ARC	S ZILBERSTEIN	NGT 2 52276	304
22	UNIV OF MASSACHUSETTS - AMHERST	M LIVINGSTON	ARC	A DESHMUKH	NCC 2 1265	304
22	UNIV OF MEMPHIS	T R GOVINDAN	ARC	R KOZMA	NCC 2 1244	469
22	UNIV OF MICHIGAN - ANN ARBOR	A NURRIDIN	HQ	M WELLMAN	NGT 5 50199	319
22	UNIV OF MONTANA	A PATTERSON-HINE	ARC	J HENRY	NCC 2 5397	339
22	UNIV OF MONTANA	K P GOODEN	ARC	R NEMANI	NCC 2 1263	339
22	UNIV OF NEVADA - LAS VEGAS	J BREDEKAMP	GSFC	D LATIFI	NAG 5 3994	342
22	UNIV OF NEW ORLEANS	A JOYCE	SSC	E RUSSO	NGT13 52714	237
22	UNIV OF NORTH CAROLINA - CHAPEL HILL	H THOMAS	ARC	G BISHOP	NGT 2 52254	403
22	UNIV OF NORTH CAROLINA - CHAPEL HILL	R OLIVERSEN	GSFC	C EVANS	NAG 5 3100	402
22	UNIV OF NORTH DAKOTA	D R PLUMER	GRC	M S ALI	NAG 3 1911	404
22	UNIV OF OKLAHOMA - NORMAN	W D IVANCIC	GRC	D ATIUZZAMAN	NAG 3 2528	429
22	UNIV OF PUERTO RICO - MAYAGUEZ	R TRAVIS	SSC	M ROSADO	NGT13 52746	558
22	UNIV OF SOUTH CAROLINA-COLUMBIA	R TRAVIS	SSC	J JENSEN	NGT13 52723	466
22	UNIV OF SOUTHERN CALIFORNIA	C J PLAUNT	ARC	M TAMBE	NAG 2 1489	115
22	UNIV OF SOUTHERN CALIFORNIA	L STONE	ARC	T W BERGER	NCC 2 1242	118
22	UNIV OF SOUTHERN CALIFORNIA	T R GOVINDAN	ARC	L ADLEMAN	NCC 2 1224	118
22	UNIV OF TENNESSEE - KNOXVILLE	J R FISCHER	GSFC	J DONGARRA	NAG 5 8773	470
22	UNIV OF TENNESSEE - KNOXVILLE	S SAINI	ARC	J DONGARRA	NCC 2 5310	471
22	UNIV OF TENNESSEE - KNOXVILLE	SSAINI	ARC	J DONGARRA	NCC 2 5312	471
22	UNIV OF TEXAS - ARLINGTON	R BISWAS	ARC	S K DAS	NCC 2 5395	491

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22	UNIV OF TEXAS - EL PASO	J BENNETT	GSFC	M KOLITSKY	NCC 5 97	500
22	UNIV OF TEXAS - EL PASO	M R LOWRY	ARC	A Q GATES	NAG 2 1012	499
22	UNIV OF TOLEDO	W K GERDES	LARC	A AETEH	NAG 1 2244	424
22	UNIV OF VIRGINIA	K J HAYHURST	LARC	J C KNIGHT	NAG 1 2290	522
22	UNIV OF VIRGINIA	K MOE	GSFC	J C FRENCH	NAG 5 8585	524
22	UNIV OF VIRGINIA	K MOE	GSFC	J FRENCH	NAG 5 9747	525
22	UNIV OF WASHINGTON	A ROBERTS	GSFC	T FURNESS	NCC 5 363	541
22	UNIV OF WASHINGTON	J STEPHENS	GSFC	S HAUCK	NAS 5 00212	541
22	UNIV OF WASHINGTON	J STEPHENS	GSFC	S HAUCK	NAS 5 00213	541
22	UNIV OF WEST FLORIDA	D CLANCY	ARC	J M BRADSHAW	NCC 2 1283	180
22	UNIV OF WEST FLORIDA	J SKILES	ARC	C M TENG	NCC 2 1239	180
22	UNIV OF WEST FLORIDA	M E DUENAS	ARC	K M FORD	NCC 2 1191	180
22	UNIV OF WEST FLORIDA	R L ALENA	ARC	J M BRADSHAW	NCC 2 1254	180
22	UNIV OF WISCONSIN - MADISON	F THEO	MSFC	J SANTARIUS	NAG 8 1719	553
22	UNIV OF WISCONSIN - MADISON	M GERALD-YAMASAKI	ARC	P CAO	NCC 2 5260	554
22	UNIV OF WISCONSIN - MADISON	W E JOHNSTON	ARC	M LIVNY	NCC 2 5323	554
22	UNIV OF WYOMING	D G SICKOREZ	JSC	R	NGT 9 36	556
22	UTAH STATE UNIV	P E HUNTER	GSFC	T BOSE	NAG 5 10716	505
22	VA POLYTECH INST & ST UNIV	J M SEATON	LARC	G J OGLE	NGT 1 52224	532
22	VA POLYTECH INST & ST UNIV	T L HOLST	ARC	R K KAPANIA	NCC 2 5433	531
22	VALENCIA COMM COLLEGE	G BUCKINGHAM	KSC	K WOODBERRY	NAG10 165	180
22	VANDERBILT UNIV	R ARONOFF	JSC	C HACHEY	NAG 9 1273	472
22	VANDERBILT UNIV	R MORRIS	ARC	G BISWAS	NCC 2 1238	473
22	WESTERN MICHIGAN UNIV	J L DUNGAN	ARC	C W EMERSON	NCC 2 1246	320
22	WINSTON-SALEM STATE UNIV	G FOLLEN	GRC	A RADENSKI	NAG 3 2011	404
22	WINSTON-SALEM STATE UNIV	G J FOLLEN	GRC	D RADENSKI	NAG 3 2515	404
22	WRIGHT STATE UNIV	W J CLANCEY	ARC	V L SHALIN	NAG 2 1237	428
22	WRIGHT STATE UNIV	W J CLANCEY	ARC	V L SHALIN	NCC 2 1203	428
22	YALE UNIV	R MORRIS	ARC	P HUDAK	NCC 2 1229	148
29	ALABAMA A&M UNIV	R TILLEY	KSC	M ELSHAMY	NAG10 245	2
29	ARIZONA STATE UNIV	P W GOODE	LARC	M P MIGNOLET	NAG 1 2233	19
29	BROWN UNIV	H L ATKINS	LARC	C SHA	NGT 1 01037	460
29	BROWN UNIV	H L ATKINS	LARC	C W SHU	NCC 1 01035	459
29	BROWN UNIV	H L ATKINS	LARC	J RYAN	NGT 1 52243	460
29	BROWN UNIV	M H CARPENTER	LARC	A KANESKY	NGT 1 01024	460
29	CALIFORNIA INST OF TECH	J J RENTHER	ARC	N A PIERRE	NCC 2 5431	49
29	CARNEGIE - MELLON UNIV	C H SCHULBACH	ARC	T C MOWRY	NAG 2 1230	436
29	CASE WESTERN RESERVE UNIV	C R MERCER	GRC	S H IZEN	NAG 3 2210	406
29	CITY UNIV	D CENTENO-GOMEZ	GRC	G MELENDEZ-DELANEY	NAG 3 2057	367
29	COLLEGE OF WILLIAM AND MARY	P C SCHUTTE	LARC	S FEYOCK	NAG 1 2271	507
29	DINE COLLEGE	L ARMENDARIZ	JSC	M C BAUER	NAG 9 968	24
29	DREXEL UNIV	J R FISCHER	GSFC	B FRYXELL	NAG 5 6029	440
29	ELIZABETH CITY STATE UNIV	D C ROBINSON	GRC	D PENDHARKAR	NAG 3 2556	396
29	FAYETTEVILLE STATE UNIV	R F LAWRENCE	GRC	L EDWARDS	NAG 3 2072	397
29	FLA INTERNATIONAL UNIV	R J MCKINNEY	KSC	G A ROIG	NAG10 268	163
29	FLORIDA A&M UNIV	T GUO	GRC	E G COLLINS	NAG 3 2193	163
29	FLORIDA MEMORIAL COLLEGE	R MC KINNEY	KSC	H HUISSO	NAG10 247	166
29	GEORGE MASON UNIV	J J RENDER	LARC	T ARCISZEWSKI	NAG 1 01030	509
29	GEORGE WASHINGTON UNIV	G D BLANEY	ARC	M KRUPSAW	NGT 2 52223	153
29	GEORGE WASHINGTON UNIV	G D BLANEY	ARC	M KRUPSAW	NGT 2 52263	154
29	GEORGIA INST OF TECH	C T RAMOS	GRC	I F AKYILDIZ	NAG 3 2580	183
29	GEORGIA INST OF TECH	P W GOODE	LARC	A J CALISE	NAG 1 2243	182
29	HOWARD UNIV	R M BUTTON	GRC	D A MOMOH	NAG 3 2429	154
29	JOHNS HOPKINS UNIV	J BREDEKAMP	GSFC	G MURPHY	NAG 5 8548	244
29	KENT STATE UNIV	L SHAW	GRC	S RYAN	NGT 3 52309	413
29	MASSACHUSETTS INST OF TECH	D R ISSACSON	ARC	A R ODONI	NAG 2 1128	287
29	MASSACHUSETTS INST OF TECH	G FOLLEN	GRC	R HAIMES	NAG 3 2523	289
29	MT HOLYOKE COLLEGE	CHOLLINGSWORTH	GSFC	J MORROW	NAG 5 10238	300
29	NEW JERSEY INST OF TECH	J LITT	GRC	D P DHAWAN	NAG 3 2475	350
29	NORTHEASTERN UNIV	M S BURRELL	GSFC	M LEESER	NGT 5 122	300
29	OHIO UNIV	J M SEATON	LARC	R L WILLIAMS	NAG 1 2299	419
29	OHIO UNIV	J M SEATON	LARC	R L WILLIAMS	NAG 1 01094	419
29	OLD DOMINION UNIV	D P GARBER	LARC	M H DUNN	NAG 1 01068	517
29	OLD DOMINION UNIV	D R JONES	LARC	D A DRYER	NAG 1 2330	516
29	OLD DOMINION UNIV	J J REHDER	LARC	A K NOOR	NCC 1 01040	519

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29	OLD DOMINION UNIV	S D YOUNG	LARC	D A JACOBS	NGT 1 01011	520
29	SOUTHERN UNIV & A&M COLLEGE	G JERMAN	MSFC	J DYER	NCC 8 156	236
29	TEMPLE UNIV	B C DRAKE	GSFC	S K BISWAS	NAG 5 8649	452
29	THE UNIV OF CENTRAL FLORIDA	C M CLESKEY	KSC	R HOFER	NCA10 35	170
29	UNIV OF MINN	A NURRIDIN	HQ	L RUDNICK	NGT 5 50123	325
29	UNIV OF AKRON	J R SCOTT	GRC	D I HAIHARAN	NAG 3 2182	420
29	UNIV OF ALABAMA - HUNTSVILLE	F MAYHALL	MSFC	W MORSE	NCC 8 178	13
29	UNIV OF CALIFORNIA - BERKELEY	J BREDEKAMP	GSFC	D L BUZASI	NAG 5 8489	72
29	UNIV OF CALIFORNIA - DAVIS	D KWAK	ARC	M HAFEZ	NCC 2 5426	82
29	UNIV OF CALIFORNIA - LOS ANGELES	J R FISCHER	GSFC	C MECHOSO	NCC 5 149	94
29	UNIV OF CALIFORNIA - SAN DIEGO	A POHORILLE	ARC	V GALINSKY	NCC 2 5302	103
29	UNIV OF CALIFORNIA - SAN DIEGO	M H NEW	ARC	V GALLINSKY	NCC 2 5448	103
29	UNIV OF DAYTON	W D MORRIS	LARC	C E EBELING	NAS 1 99148	424
29	UNIV OF HOUSTON - CLEAR LAKE	D OVERLAND	JSC	T FEAGIN	NAG 9 1295	490
29	UNIV OF HOUSTON - CLEAR LAKE	JARRELL	JSC	R S CHHIKARA	NCC 9 76	490
29	UNIV OF MARYLAND - COLLEGE PARK	J R FISCHER	GSFC	P LYSTER	NCC 5 150	270
29	UNIV OF MICHIGAN - ANN ARBOR	J R FISCHER	GSFC	T GOMBOSI	NCC 5 146	317
29	UNIV OF NEW HAMPSHIRE - DURHAM	M MAIDEN	GSFC	B MOORE	NCC 5 304	349
29	UNIV OF TEXAS - AUSTIN	E L CHRISTIANSEN	JSC	E P FAHRENTHOLD	NCC 9 73	497
29	UNIV OF TEXAS - AUSTIN	J R FISCHER	GSFC	G CAREY	NCC 5 154	497
29	UNIV OF TOLEDO	J D STEGEMAN	GRC	D D JOHNSON	NAG 3 2594	425
29	UNIV OF TOLEDO	J LITT	GRC	A P DHAWAN	NAG 3 2282	425
29	UNIV OF VIRGINIA	B MERRITT	WFF	G WILLIAMS	NAG 5 10956	526
29	UNIV OF VIRGINIA	P M GOODE	LARC	B W JOHNSON	NGT 1 01016	527
29	UNIV OF VIRGINIA	P W GOODE	LARC	C R ELKS	NGT 1 52237	527
29	UNIV OF WASHINGTON	M WEI	GSFC	T QUINN	NGT 5 126	542
29	UNIV OF WASHINGTON	S LIANG	ARC	H QIAN	NCC 2 5463	541
29	WASHINGTON STATE UNIV	B A BIEGEL	ARC	M A OSMAN	NCC 2 5346	544
29	WEST VIRGINIA UNIV	D S OSBURN	ARC	A C COGLEY	NCC 2 979	545
29	WINSTON-SALEM STATE UNIV	F SIX	MSFC	F LEE	NAG 8 1099	404
31	ALABAMA A&M UNIV	P SAKIMOTO	GSFC	A TAN	NAG 5 10202	1
31	ALABAMA A&M UNIV	R ARNOLD	MSFC	T L COLEMAN	NCC 8 140	2
31	ALMA COLLEGE	M J MCGILL	GSFC	J H GIBSON	NAG 5 10118	306
31	ARIZONA STATE UNIV	R LAWRENCE	GSFC	P R BUSECK	NAG 5 9838	22
31	BOSTON UNIV	B SINGH	GRC	A NADIM	NAG 3 1844	276
31	BOSTON UNIV	C S POTTER	ARC	R B MYNENI	NAG 2 1432	276
31	BOSTON UNIV	D TOLL	GSFC	R B MYNENI	NAS 5 96061	280
31	BOSTON UNIV	H OSEROFF	GSFC	W STRAHLER	NAS 5 31369	280
31	BOSTON UNIV	J ARNOLD	MSFC	G D SALVUCCI	NAG 8 1522	280
31	BRIGHAM YOUNG UNIV	R J LAWRENCE	GSFC	D G LONG	NAG 5 9638	502
31	BROWN UNIV	R MCKELLIP	SSC	MUSTARD	NAG13 39	459
31	CALIFORNIA INST OF TECH	E HILSENATH	GSFC	Y L YUNG	NAG 5 7230	45
31	CALIFORNIA INST OF TECH	G L MADDREA	LARC	Y L YUNG	NAG 1 2151	41
31	CALIFORNIA INST OF TECH	H HASAN	GSFC	D P INGERSOLL	NAG 5 4191	42
31	CALIFORNIA INST OF TECH	J BERGSTRALH	GSFC	D L YUNG	NAG 5 6263	44
31	CALIFORNIA INST OF TECH	M CHOU	GSFC	Y L YUNG	NAG 5 7680	45
31	CALIFORNIA INST OF TECH	M J KURYLO	GSFC	D OKUMURA	NAG 5 3911	42
31	CALIFORNIA INST OF TECH	R J LAWRENCE	GSFC	P O WENNBERG	NAG 5 11157	48
31	CALIFORNIA INST OF TECH	R LAWRENCE	GSFC	D O WENNBERG	NAG 5 9307	45
31	CARNEGIE - MELLON UNIV	P HUNTER	GSFC	A F PTAK	NAG 5 8093	437
31	CHRISTOPHER NEWPORT UNIV	G W SOCHSE	LARC	N POUATCHER	NCC 1 318	507
31	CITY UNIV OF NY CITY COLLEGE	L TRAVIS	GSFC	N A PARKER	NCC 5 343	368
31	CITY UNIV OF NY CITY COLLEGE	L TRAVIS	GSFC	N A PARKER	NCC 5 520	368
31	CITY UNIV OF NY CITY COLLEGE	O W THIELE	GSFC	S GEDZELMAN	NAG 5 7827	368
31	CITY UNIV OF NY CITY COLLEGE	S GLICKER	GSFC	D AKINS	NAG 5 4019	368
31	CITY UNIV OF NY SYSTEM	J SIMMONDS	MSFC	W J PIERSON	NAG 8 1423	368
31	CLEMSON UNIV - CLEMSON	J BOYCE	GSFC	D CLAYTON	NAG 5 8304	462
31	CLEMSON UNIV - CLEMSON	O W THIELE	GSFC	C W ULBRICH	NAG 5 7782	462
31	COLLEGE OF CHARLESTON	P HUNTER	GSFC	J HAKKILA	NAG 5 10625	464
31	COLLEGE OF WILLIAM AND MARY	W CHU	LARC	D BRENNER	NAS 1 00146	508
31	COLORADO STATE UNIV	A J NEGRI	GSFC	G L STEPHENS	NCC 5 288	122
31	COLORADO STATE UNIV	A J NEGRI	GSFC	M T MONTGOMERY	NAG 5 11140	121
31	COLORADO STATE UNIV	B A WIELICKI	LARC	D A	NAS 1 98125	122
31	COLORADO STATE UNIV	D LEWIS	GSFC	G STEPHENS	NAS 5 99237	122
31	COLORADO STATE UNIV	D S MCDUGAL	LARC	D A RANDALL	NAG 1 2081	119

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31	COLORADO STATE UNIV	D S MCDUGAL	LARC	W COTTON	NAG 1 2045	119
31	COLORADO STATE UNIV	G GIBSON	LARC	G L STEPHENS	NAS 1 99103	122
31	COLORADO STATE UNIV	J ARNOLD	MSFC	R A PIELKE	NAG 8 1511	121
31	COLORADO STATE UNIV	J R HERMAN	GSFC	J SLUSSER	NAG 5 11018	121
31	COLORADO STATE UNIV	M MISHCHENKO	GSFC	S M KREIDENWEIS	NAG 5 7783	120
31	COLORADO STATE UNIV	O THIELE	GSFC	D RANDALL	NAG 5 4749	120
31	COLORADO STATE UNIV	O W THIELE	GSFC	G L STEPHENS	NAG 5 7719	120
31	COLORADO STATE UNIV	O W THIELE	GSFC	V CHANDRASEKAR	NAG 5 7876	120
31	COLORADO STATE UNIV	O W THIELE	GSFC	V N BRINGI	NAG 5 7717	120
31	COLORADO STATE UNIV	R A ALDER	GSFC	S A RUTLEDGE	NAG 5 4754	120
31	COLORADO STATE UNIV	R J LAWRENCE	GSFC	D A RANDALL	NAG 5 9647	121
31	COLORADO STATE UNIV	R J LAWRENCE	GSFC	R H JOHNSON	NAG 5 9665	121
31	COLORADO STATE UNIV	R J LAWRENCE	GSFC	S A RUTLEDGE	NAG 5 9642	121
31	COLORADO STATE UNIV	R J LAWRENCE	GSFC	V CHANDRASEKAR	NAG 5 9655	121
31	COLORADO STATE UNIV	R J LAWRENCE	GSFC	W H SCHUBERT	NAG 5 11010	121
31	COLORADO STATE UNIV	R J LAWRENCE	GSFC	W K BERG	NAG 5 10482	121
31	COLORADO STATE UNIV	R L LAWRENCE	GSFC	C D KUMMEROW	NAG 5 11189	121
31	COLORADO STATE UNIV	R LAWRENCE	GSFC	D J DEMOTT	NAG 5 9308	121
31	COLORADO STATE UNIV	T MILLER	MSFC	S Q KIDDER	NAS 8 97082	122
31	COLORADO STATE UNIV	V DELNORE	LARC	G STEPHENS	NAG 1 2247	119
31	COLUMBIA UNIV	A LACIS	GSFC	L DRUYAN	NCC 5 473	374
31	COLUMBIA UNIV	A LACIS	GSFC	L M DRUYAN	NCC 5 270	373
31	COLUMBIA UNIV	A LACIS	GSFC	L M DRUYAN	NCC 5 546	374
31	COLUMBIA UNIV	B CARLSON	GSFC	C HARRIS	NCC 5 470	374
31	COLUMBIA UNIV	B CARLSON	GSFC	C HARRIS	NCC 5 549	374
31	COLUMBIA UNIV	D RIND	GSFC	M A CHANDLER	NCC 5 328	374
31	COLUMBIA UNIV	D RIND	GSFC	M CHANDLER	NCC 5 505	374
31	COLUMBIA UNIV	M I MISHCHENKO	GSFC	G KUKLA	NAG 5 7687	371
31	COLUMBIA UNIV	M KHAZENIE	GSFC	W BROECKER	NAG 5 6294	370
31	COLUMBIA UNIV	M S BURRELL	GSFC	A D DELGENIO	NGT 5 44	374
31	COLUMBIA UNIV	R B STOTHERS	GSFC	C K CHU	NCC 5 485	374
31	COLUMBIA UNIV	R B STOTHERS	GSFC	C K CHU	NCC 5 547	374
31	COLUMBIA UNIV	R STOTHERS	GSFC	L M POLVANI	NCC 5 558	374
31	COLUMBIA UNIV	R STOTHERS	GSFC	L POLVANI	NCC 5 278	374
31	COLUMBIA UNIV	R STOTHERS	GSFC	L POLVANI	NCC 5 469	374
31	COLUMBIA UNIV	R W STEWART	GSFC	T HALL	NAG 5 7138	371
31	CONCORDIA COLLEGE IN MOORHEAD	P R MAHAFFY	GSFC	H L MANNING	NAG 5 8626	320
31	CORNELL UNIV	G ASRAR	GSFC	L O HEDIN	NGT 5 30038	381
31	CORNELL UNIV	J ARNOLD	MSFC	W BRUTSAERT	NAG 8 1518	380
31	CORNELL UNIV	S NASH-STEVENSON	MSFC	K H COOK	NGT 8 52897	382
31	DENISON UNIV	R BEEBE	GSFC	D E MICKELSON	NAG 5 4341	412
31	DREXEL UNIV	E HILSEN RATH	GSFC	D R BROOKS	NAG 5 8929	440
31	DREXEL UNIV	J L RAPER, SR.	LARC	A R BANDY	NCC 1 409	441
31	DREXEL UNIV	J L ROPER	LARC	A R BANDY	NCC 1 297	441
31	DUKE UNIV	R ROOD	GSFC	P KABIBHATLA	NAG 5 3665	394
31	FLORIDA A&M UNIV	R LEE	KSC	F B GROSS	NAG10 264	164
31	FLORIDA STATE UNIV	A J KRUEGER	GSFC	X ZOU	NAG 5 9410	168
31	FLORIDA STATE UNIV	A J NEGRI	GSFC	E A SMITH	NAG 5 4752	166
31	FLORIDA STATE UNIV	J ARNOLD	MSFC	J J O	NCC 8 158	169
31	FLORIDA STATE UNIV	J ARNOLD	MSFC	T N KRISHNAMURTI	NAG 8 1537	168
31	FLORIDA STATE UNIV	J E ARNOLD	MSFC	T N KRISHNAMURTI	NAG 8 1848	168
31	FLORIDA STATE UNIV	J L RAPER, SR.	LARC	H E FUELBERG	NCC 1 412	168
31	FLORIDA STATE UNIV	J M HOELL, JR.	LARC	H E FUELBERG	NCC 1 308	168
31	FLORIDA STATE UNIV	J R RAPER	LARC	T N KRISHNAURTI	NAG 1 2127	166
31	FLORIDA STATE UNIV	M HALL	GSFC	I NAVON	NAG 5 4873	167
31	FLORIDA STATE UNIV	O W THIELE	GSFC	S E NICHOLSON	NAG 5 7718	167
31	FLORIDA STATE UNIV	O W THIELE	GSFC	T N KRISHNAMURTI	NAG 5 4729	166
31	FLORIDA STATE UNIV	P K BHARTA	GSFC	X ZOU	NAG 5 11067	168
31	FLORIDA STATE UNIV	R J LAWRENCE	GSFC	H A COOPER	NAG 5 10001	168
31	FLORIDA STATE UNIV	R J LAWRENCE	GSFC	T N KRISHNAMURTI	NAG 5 9662	168
31	FLORIDA STATE UNIV	W B ROSSOW	GSFC	G LIU	NAG 5 8647	167
31	GEORGE MASON UNIV	G MADDREA	LARC	M SUMMERS	NAG 1 2316	509
31	GEORGE WASHINGTON UNIV	R J LAWRENCE	GSFC	R H LANG	NAG 5 9550	152
31	GEORGE WASHINGTON UNIV	S HOWARD	GSFC	D M KEATING	NAG 5 6081	152
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31	GEORGIA INST OF TECH	G L MADDREA	LARC	D M CUNNOLD	NAS 1 18938	185
31	GEORGIA INST OF TECH	J BERGSTRALH	GSFC	D G STEFFES	NAG 5 4190	183
31	GEORGIA INST OF TECH	J C RIVERA	GSFC	D M CUNNOLD	NAS 5 00171	185
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31	GEORGIA INST OF TECH	J L RAPER, SR.	LARC	F L EISELE	NCC 1 421	186
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31	GEORGIA INST OF TECH	J L RAPER, SR.	LARC	S T SANDHOLM	NCC 1 417	186
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31	GEORGIA INST OF TECH	J L ROPER	LARC	F L EISELE	NCC 1 301	185
31	GEORGIA INST OF TECH	J M HOELL, JR.	LARC	D D DAVIS	NCC 1 306	185
31	GEORGIA INST OF TECH	J M HOELL	LARC	S C LIU	NCC 1 317	185
31	GEORGIA INST OF TECH	J M HOELL, JR.	LARC	S T SANDHOLM	NCC 1 296	185
31	GEORGIA INST OF TECH	M I MISHCHENKO	GSFC	M CHIN	NAG 5 7682	184
31	GEORGIA INST OF TECH	R MCPETERS	GSFC	P GINOUX	NAG 5 11063	184
31	GEORGIA INST OF TECH	S SCHUBERG	GSFC	R X BLACK	NAG 5 7471	184
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31	GEORGIA INST OF TECH	Y SUD	GSFC	R DICKINSON	NAG 5 10209	184
31	HAMPTON UNIV	B A WIENCKI	LARC	B LIN	NAG 1 1963	511
31	HAMPTON UNIV	C JACKMAN	GSFC	D M RUSSELL	NAG 5 7001	512
31	HAMPTON UNIV	C JACKMAN	GSFC	J M RUSSELL	NAG 5 11065	512
31	HAMPTON UNIV	G G GIBSON	LARC	M P MCCORMICK	NAS 1 99108	513
31	HAMPTON UNIV	G G GIBSON	LARC	N G LOEB	NAG 1 2318	511
31	HAMPTON UNIV	G L MADDREA	LARC	M P MCCORMICK	NAG 1 2170	511
31	HAMPTON UNIV	J FISHMAN	LARC	T H CHYBA	NAG 1 2224	511
31	HAMPTON UNIV	L R POOLE	LARC	M P MCCORMICK	NAG 1 1947	510
31	HAMPTON UNIV	M I MISHCHENKO	GSFC	M MCCORMICK	NAG 5 8648	512
31	HAMPTON UNIV	P MINNIS	LARC	M P MCCORMICK	NAG 1 2135	511
31	HAMPTON UNIV	R A HATHAWAY	LARC	D A TEMPLE	NCC 1 01059	513
31	HAMPTON UNIV	R L DUNCAN	LARC	P MCCORMICK	NAS 1 97042	513
31	HAMPTON UNIV	V E DELNORE	LARC	N G LOEB	NAG 1 2206	511
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31	HARVARD UNIV	E P CONDON	ARC	J G ANDERSON	NAG 2 1300	282
31	HARVARD UNIV	E P CONDON	ARC	S C WOFYSY	NAG 2 1304	282
31	HARVARD UNIV	E P CONDON	ARC	S C WOFYSY	NAG 2 1310	282
31	HARVARD UNIV	G L MADDREA	LARC	D J JACOB	NAG 1 2307	282
31	HARVARD UNIV	G L MADDREA	LARC	J G ANDERSON	NAG 1 2007	282
31	HARVARD UNIV	G L MADDREA	LARC	S C WOFYSY	NAG 1 2025	282
31	HARVARD UNIV	J L RAPER, SR.	LARC	D J JACOB	NAG 1 2328	282
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31	HARVARD UNIV	L R POOLE	LARC	J G ANDERSON	NAG 1 01095	282
31	HARVARD UNIV	R J LAWRENCE	GSFC	A P BARROS	NAG 5 9823	284
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31	HOWARD UNIV	W HOEGY	GSFC	A THORPE	NCC 5 420	155
31	HOWARD UNIV	W HOEGY	GSFC	S T SMITH	NCC 5 424	155
31	HOWARD UNIV	W R HOEGY	GSFC	A N THORPE	NCC 5 197	155
31	HOWARD UNIV	W R HOEGY	GSFC	S T SMITH	NCC 5 556	155
31	IOWA STATE UNIV	A DOUGLASS	GSFC	D L STANFORD	NAG 5 7133	222
31	IOWA STATE UNIV	M RIENECKER	GSFC	T C CHEN	NAG 5 8293	223
31	IOWA STATE UNIV	S CHANDRA	GSFC	S L STANFORD	NAG 5 7271	222
31	IOWA STATE UNIV	S SCHUBERT	GSFC	T CHEN	NAG 5 7530	223
31	JACKSON STATE UNIV	J JENNER	JSC	P CROFT	NAG13 99013	327
31	JACKSON STATE UNIV	R ADLER	GSFC	P FITZPATRICK	NAG 5 6209	326
31	JACKSON STATE UNIV	R MILLER	JSC	R REDDY	NAG13 99012	327
31	JOHNS HOPKINS UNIV	A C AIKIN	GSFC	J YEE	NAG 5 9988	247
31	JOHNS HOPKINS UNIV	A R DOUGLASS	GSFC	D WAUGH	NCC 5 500	252
31	JOHNS HOPKINS UNIV	D BOGAN	GSFC	B MAUK	NAG 5 11034	250
31	JOHNS HOPKINS UNIV	D BOGAN	GSFC	D F STROBEL	NAG 5 4168	242
31	JOHNS HOPKINS UNIV	D J BOGAN	GSFC	R J VERVACK	NAG 5 11051	250
31	JOHNS HOPKINS UNIV	E HILSEN RATH	GSFC	S A LLOYD	NAG 5 7227	243
31	JOHNS HOPKINS UNIV	G L MADDREA	LARC	D W WAUGH	NAG 1 2043	240
31	JOHNS HOPKINS UNIV	G L MADDREA	LARC	D W WAUGH	NAG 1 2194	240
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31	JOHNS HOPKINS UNIV	J SHARBER	GSFC	H KU	NAG 5 9109	246
31	JOHNS HOPKINS UNIV	J SHARBER	GSFC	K LIOU	NAG 5 9078	246
31	JOHNS HOPKINS UNIV	L R POOLE	LARC	S A LLOYD	NAG 1 2270	240
31	JOHNS HOPKINS UNIV	P E HUNTER	GSFC	A F PTAK	NAG 5 11193	251
31	JOHNS HOPKINS UNIV	R MCPETERS	GSFC	S A LLOYD	NAG 5 11029	250
31	JOHNS HOPKINS UNIV	R W STEWART	GSFC	D W WAUGH	NAG 5 7361	243
31	JOHNS HOPKINS UNIV	T A SULLIVAN	JSC	R H MAURER	NAG 9 1220	251
31	JOHNS HOPKINS UNIV	W LAU	GSFC	A ARKING	NAG 5 8572	245
31	MANKATO STATE UNIV	P HUNTER	GSFC	J HAKKILA	NAG 5 8142	320
31	MASSACHUSETTS INST OF TECH	A DOUGLASS	GSFC	D NEWELL	NAG 5 6710	291
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31	MASSACHUSETTS INST OF TECH	D BOGAN	GSFC	J D RICHARDSON	NAG 5 8947	293
31	MASSACHUSETTS INST OF TECH	D K WEST	GSFC	R L BRAS	NAG 5 3726	289
31	MASSACHUSETTS INST OF TECH	D L MODDREA	LARC	R E NEWELL	NAG 1 2306	287
31	MASSACHUSETTS INST OF TECH	E LINDSTROM	GSFC	P H STONE	NAG 5 7204	291
31	MASSACHUSETTS INST OF TECH	G L MADDREA	LARC	R A PLUMB	NAG 1 1900	286
31	MASSACHUSETTS INST OF TECH	G L MADDREA	LARC	R A PLUMB	NAG 1 2027	286
31	MASSACHUSETTS INST OF TECH	G L MADDREA	LARC	R G PRINN	NAG 1 2152	286
31	MASSACHUSETTS INST OF TECH	G MADDREA	LARC	R PLUMB	NAG 1 2203	287
31	MASSACHUSETTS INST OF TECH	G SMITH	GSFC	T A HERRING	NAS 5 99007	297
31	MASSACHUSETTS INST OF TECH	G STRINGFELLOW	GSFC	Q HU	NAG 5 9080	293
31	MASSACHUSETTS INST OF TECH	J ARNOLD	MSFC	D ENTEKHABI	NAG 8 1524	296
31	MASSACHUSETTS INST OF TECH	J BERGSTRALH	GSFC	D RICHARDSON	NAG 5 6129	291
31	MASSACHUSETTS INST OF TECH	J C SHIUE	GSFC	D STAELIN	NAG 5 7487	292
31	MASSACHUSETTS INST OF TECH	J L RAPER	LARC	R E NEWELL	NAG 1 2173	287
31	MASSACHUSETTS INST OF TECH	J L RAPER, SR.	LARC	R E NEWELL	NCC 1 415	298
31	MASSACHUSETTS INST OF TECH	J SHARBER	GSFC	T CHANG	NAG 5 9117	293
31	MASSACHUSETTS INST OF TECH	K H BERGMAN	GSFC	D S LINDZEN	NAG 5 6304	291
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31	MASSACHUSETTS INST OF TECH	P L DECOLA	GSFC	P STEINFELD	NAG 5 3977	290
31	MASSACHUSETTS INST OF TECH	R J LAWRENCE	GSFC	E R WILLIAMS	NAG 5 9637	294
31	MASSACHUSETTS INST OF TECH	R J LAWRENCE	GSFC	R L BRAS	NAG 5 9640	294
31	MASSACHUSETTS INST OF TECH	R W LAWRENCE	GSFC	E R WILLIAMS	NAG 5 4778	290
31	MASSACHUSETTS INST OF TECH	R W STEWART	GSFC	R PLUMB	NAG 5 8224	292
31	MASSACHUSETTS INST OF TECH	W WILDES	GSFC	G CARRIGAN	NAS 5 99198	297
31	MICHIGAN TECHNOLOGICAL UNIV	A J KRUEGER	GSFC	W ROSE	NAG 5 7272	309
31	MICHIGAN TECHNOLOGICAL UNIV	R MVPETERS	GSFC	G BLUTH	NAG 5 11062	309
31	MOSCOW INST OF PHYSICS & TECH	W L GROSS	LARC	M L KOGAN	NCC 1 01005	559
31	NEW MEXICO HIGHLANDS UNIV	L ARMENDARIZ	JSC	J R JUAREZ	NAG 9 1375	361
31	NEW MEXICO HIGHLANDS UNIV	L ARMENDARIZ	JSC	J R JUAREZ	NAG 9 1922	361
31	NEW MEXICO INST OF MINING & TECH	J HERMAN	GSFC	D R MINSCHWANER	NAG 5 7109	361
31	NEW MEXICO INST OF MINING & TECH	M J KURYLO	GSFC	K MINSCHWANNER	NAG 5 4139	361
31	NEW MEXICO STATE UNIV - LAS CRUCES	J BERGSTRALH	GSFC	D MARLEY	NAG 5 4987	362
31	NIAGARA UNIV	R BLAKESLEE	MSFC	W BOECK	NCC 8 182	383
31	NORFOLK STATE UNIV	J C BARNES	LARC	E S GILLMAN	NAG 1 2228	514
31	NORFOLK STATE UNIV	N P BARNES	LARC	C COLEMAN	NAG 1 2226	514
31	NORFOLK STATE UNIV	W P CHU	LARC	M KUNG	NAG 1 1944	514
31	NORTH CAROLINA STATE UNIV	B E ANDERSON	LARC	M SMITH	NGT 1 52183	402
31	NORTH CAROLINA STATE UNIV	F H PROCTOR	LARC	Y L LIN	NAS 1 99097	401
31	NORTH CAROLINA STATE UNIV	J ARNOLD	MSFC	R ABT	NCC 8 159	401
31	OHIO STATE UNIV	M J KURYLO	GSFC	F C DEELUCIA	NAG 5 3983	414
31	OLD DOMINION UNIV	G W SACHSE	LARC	D LOCKWOOD	NGT 1 52241	521
31	OLD DOMINION UNIV	M N ABEDIN	GSFC	R P JOSHI	NAG 1 01077	517
31	OLD DOMINION UNIV	R DEYOUNG	LARC	D H ELSAYED-ALII	NGT 1 01014	520
31	OREGON STATE UNIV	B A WIELICKI	LARC	J COAKLEY	NAS 1 98140	433
31	OREGON STATE UNIV	C RABER	GSFC	D H FREILICH	NAS 5 32965	433
31	OREGON STATE UNIV	G GIBSON	LARC	J M COAKLEY	NAS 1 99104	433
31	OREGON STATE UNIV	J BERGSTRALH	GSFC	D BARNES	NAG 5 6189	431
31	OREGON STATE UNIV	J MARRA	GSFC	J BARNES	NAG 5 11046	433
31	OREGON STATE UNIV	M I MISHCHENKO	GSFC	J A COAKLEY	NAG 5 7686	432
31	OREGON STATE UNIV	M MEYER	GSFC	B T SIMONEIT	NAG 5 9428	432
31	OREGON STATE UNIV	R A SCHIFFER	GSFC	G DALRYMPLE	NAG 5 8261	432
31	OREGON STATE UNIV	R M HABERLE	ARC	J R BARNES	NCC 2 1102	433

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31	PENN STATE UNIV	E P CONDON	ARC	G S FORBES	NAG 2 1295	442
31	PENN STATE UNIV	E P CONDON	ARC	W H BRUNE	NAG 2 1302	442
31	PENN STATE UNIV	E P CONDON	ARC	W H BRUNE	NAG 2 1309	442
31	PENN STATE UNIV	E P CONDON	ARC	W H BRUNE	NAG 2 1453	443
31	PENN STATE UNIV	J ARNOLD	MSFC	N L SEAMAN	NAG 8 1530	448
31	PENN STATE UNIV	J F GLEASON	GSFC	W H BRUNE	NAS 5 00024	449
31	PENN STATE UNIV	J L RAPER, SR.	LARC	W H BRUNE	NCC 1 414	450
31	PENN STATE UNIV	J M HOELL, JR.	LARC	W H BRUNE	NCC 1 300	449
31	PENN STATE UNIV	R E YOUNG	ARC	J F KASTING	NCC 2 5307	450
31	PENN STATE UNIV	R E YOUNG	ARC	J F KASTINGS	NCC 2 5410	450
31	PENN STATE UNIV	R J LAWRENCE	GSFC	A P BARROS	NAG 5 7781	446
31	PENN STATE UNIV	R W LAWRENCE	GSFC	G JENKINS	NAG 5 7443	445
31	PRAIRIE VIEW A&M UNIV	A LEE	JSC	R WILKINS	NAG 9 1370	476
31	PRINCETON UNIV	J ARNOLD	MSFC	E F WOOD	NAG 8 1517	354
31	PRINCETON UNIV	J ARNOLD	MSFC	J A SMITH	NAG 8 1521	354
31	PRINCETON UNIV	O W THIELE	GSFC	J A SMITH	NAG 5 7744	353
31	PRINCETON UNIV	R J LAWRENCE	GSFC	E F WOOD	NAG 5 9891	354
31	PURDUE UNIV	B L APENTA	MSFC	G W PETTY	NAG 8 1233	219
31	PURDUE UNIV	G ASRAR	GSFC	D HARSHVARDHAN	NGT 5 30040	220
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31	PURDUE UNIV	M I MISHCHENKO	GSFC	H HARSHVARDHAN	NAG 5 7727	218
31	PURDUE UNIV	R J LAWRENCE	GSFC	C A CLAYTON	NAG 5 9822	218
31	PURDUE UNIV	R W LAWRENCE	GSFC	G W PETTY	NAG 5 7741	218
31	RICE UNIV	J BERGSTRALH	GSFC	D HILL	NAG 5 6432	477
31	RICE UNIV	J GRAF	JSC	F K TITTEL	NAG 9 1193	478
31	RUTGERS ST UNIV N	A C JANETOS	HQ	R AVISSAR	NAGW 5226	359
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31	RUTGERS ST UNIV N	G L MADDREA	LARC	A ROBOCK	NAG 1 2154	356
31	RUTGERS ST UNIV N	J ARNOLD	MSFC	Y LIU	NAG 8 1513	358
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31	RUTGERS ST UNIV N	R B STOTHERS	GSFC	A ROBOCK	NCC 5 553	359
31	RUTGERS ST UNIV N	R STOTHERS	GSFC	R AVISSAR	NCC 5 476	359
31	SAINT ANSELM COLLEGE	A J NEGRI	GSFC	D GUERRA	NCC 5 384	345
31	SAN FRANCISCO STATE UNIV	R S HIPSKIND	ARC	K L PAGAN	NCC 2 1128	55
31	SAN FRANCISCO STATE UNIV	S HIPSKIND	ARC	P FOSCHI	NCC 2 1278	55
31	SAN JOSE STATE UNIV	D BOGAN	GSFC	S RAFKIN	NAG 5 9751	56
31	SAN JOSE STATE UNIV	D QUATTROCHI	MSFC	R BORNSTEIN	NAG 8 1735	56
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31	SAN JOSE STATE UNIV	H B SINGH	ARC	P A HAMMILL	NCC 2 5347	57
31	SAN JOSE STATE UNIV	J M BOYCE	GSFC	S RAFKIN	NAG 5 11184	56
31	SAN JOSE STATE UNIV	P B RUSSELL	ARC	P A HAMILL	NCC 2 5450	58
31	SAN JOSE STATE UNIV	P BUI	ARC	J GOODMAN	NCC 2 1106	57
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31	SAN JOSE STATE UNIV	R B CHATFIELD	ARC	P A HAMILL	NCC 2 1091	56
31	SAN JOSE STATE UNIV	R B CHATFIELD	ARC	S C RAFKIN	NCC 2 5353	57
31	SAN JOSE STATE UNIV	R E YOUNG	ARC	A SEIFF	NCC 2 1059	56
31	SAN JOSE STATE UNIV	R E YOUNG	ARC	J L HOLLINGSWORTH	NCC 2 5451	58
31	SAN JOSE STATE UNIV	R M HABERLE	ARC	A C BRIDGER	NCC 2 5330	57
31	SAN JOSE STATE UNIV	R M HABERLE	ARC	J L HOLLINGSWORT	NCC 2 5336	57
31	STANFORD UNIV	A NURRIDIN	HQ	U INAN	NGT 5 50227	67
31	STANFORD UNIV	E CONDON	ARC	C T BOWMAN	NAG 2 1397	59
31	STANFORD UNIV	F PERI	LARC	R L BYER	NAS 1 00104	63
31	STANFORD UNIV	P SELLERS	GSFC	H MOONEY	NAS 5 31726	64
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31	STATE UNIV OF NY - ALBANY	L PFISTER	ARC	M KRITZ	NCC 2 5212	387
31	STATE UNIV OF NY - ALBANY	R LAWRENCE	GSFC	J MOLINARI	NAG 5 11008	387
31	STATE UNIV OF NY - STONY BROOK	A DOUGLASS	GSFC	D A GELLER	NAG 5 7134	389
31	STATE UNIV OF NY - STONY BROOK	B A WIELICKI	LARC	R D CESS	NAS 1 98142	391
31	STATE UNIV OF NY - STONY BROOK	B CARLSON	GSFC	M GELLER	NCC 5 342	391
31	STATE UNIV OF NY - STONY BROOK	D S MCDOUGAL	LARC	R A WALISER	NAG 1 2065	388
31	STATE UNIV OF NY - STONY BROOK	G L MADDREA	LARC	M A GELLER	NAG 1 2040	388
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32	CALIFORNIA INST OF TECH	D SENSKE	GSFC	D J STEVENSON	NAG 5 10189	47
32	CALIFORNIA INST OF TECH	D SENSKE	GSFC	K A FARLEY	NAG 5 10470	47
32	CALIFORNIA INST OF TECH	H V FREY	GSFC	K E SIEH	NAG 5 10406	47
32	CALIFORNIA INST OF TECH	J G GRANT	GSFC	T J AHRENS	NAG 5 4206	42
32	CALIFORNIA INST OF TECH	P G RODGERS	GSFC	D J STEVENSON	NAG 5 3765	42
32	CALIFORNIA INST OF TECH	P ROGERS	GSFC	K A FARLEY	NAG 5 6941	44
32	CALVIN COLLEGE	H V FREY	GSFC	J A CLARK	NAG 5 10348	306
32	CENTRAL WASHINGTON UNIV	H V FREY	GSFC	M MILLER	NAG 5 7672	533
32	CLEMSON UNIV - CLEMSON	M MELLOTT	GSFC	D HYSSELL	NAG 5 9267	463
32	COLORADO STATE UNIV	E T ENGMAN	GSFC	G E LISTON	NAG 5 7560	120
32	COLORADO STATE UNIV	E T ENGMAN	GSFC	K ELDER	NAG 5 7558	120
32	COLUMBIA UNIV	H V FREY	GSFC	C P STARK	NAG 5 9056	372
32	COLUMBIA UNIV	H V FREY	GSFC	J K WEISSEL	NAG 5 8848	372
32	COLUMBIA UNIV	H V FREY	GSFC	R E BELL	NAG 5 9060	372
32	COLUMBIA UNIV	V GRIFFIN	GSFC	R C WILSON	NAS 5 97164	373
32	CORNELL UNIV	E T ENGMAN	GSFC	K H COOK	NAG 5 7497	377

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32	CORNELL UNIV	J GRANT	GSFC	B CAMPBELL	NAG 5 9034	378
32	CORNELL UNIV	J GRANT	GSFC	P C THOMAS	NAG 5 3627	376
32	CORNELL UNIV	M MELLOTT	GSFC	C E SEYLER	NAG 5 9199	378
32	CORNELL UNIV	P G ROGERS	GSFC	D L TURCOTTE	NAG 5 4361	376
32	CORNELL UNIV	P G ROGERS	GSFC	J VEVERKA	NAG 5 3626	376
32	CORNELL UNIV	P G ROGERS	GSFC	P D NICHOLSON	NAG 5 3795	376
32	CORNELL UNIV	P G ROGERS	GSFC	P HELFENSTEIN	NAG 5 3639	376
32	CORNELL UNIV	P ROGERS	GSFC	D A BURNS	NAG 5 3910	376
32	CORNELL UNIV	P ROGERS	GSFC	D B CAMPBELL	NAG 5 4220	376
32	CORNELL UNIV	P ROGERS	GSFC	D B CAMPBELL	NAG 5 6783	377
32	CORNELL UNIV	P ROGERS	GSFC	D F BELL	NAG 5 4333	376
32	CORNELL UNIV	P ROGERS	GSFC	D VEVERKA	NAG 5 4502	376
32	CORNELL UNIV	R OLIVERSEN	GSFC	D L TURCOTTE	NAG 5 9067	378
32	DARTMOUTH COLLEGE	H V FREY	GSFC	G BRAKENRIDGE	NAG 5 10953	344
32	DARTMOUTH COLLEGE	M BALTUCK	GSFC	R BRACKENRIDGE	NAG 5 3498	343
32	FLORIDA STATE UNIV	H V FREY	GSFC	J C CAIN	NAG 5 7577	167
32	GRAND VALLEY STATE UNIV	B BILLS	GSFC	J WEBER	NAG 5 6409	306
32	HAMPTON UNIV	M MELLOTT	GSFC	S M BAILEY	NAG 5 9171	512
32	HARVARD UNIV	H V FREY	GSFC	J BLOXHAM	NAG 5 7616	284
32	HARVARD UNIV	M MEYER	GSFC	D H KNOLL	NAG 5 3645	283
32	INDIANA UNIV - BLOOMINGTON	H V FREY	GSFC	M W HAMBURGER	NAG 5 5167	215
32	INDIANA UNIV - BLOOMINGTON	H V FREY	GSFC	M W HAMBURGER	NAG 5 7619	215
32	INDIANA UNIV - BLOOMINGTON	H V FREY	GSFC	M W HAMBURGER	NAG 5 8582	215
32	IOWA STATE UNIV	E T ENGMAN	GSFC	W J GUTOWSKI	NAG 5 7561	223
32	JOHNS HOPKINS UNIV	H V FREY	GSFC	R K RANEY	NAG 5 9296	246
32	JOHNS HOPKINS UNIV	J SPAN	GSFC	A LUI	NAG 5 10475	249
32	JOHNS HOPKINS UNIV	J SPANN	GSFC	D G SIBECK	NAG 5 10479	249
32	JOHNS HOPKINS UNIV	M MELLOTT	GSFC	J CARBARY	NAG 5 9240	246
32	LOUISIANA STATE UNIV - BATON ROUGE	H FREY	GSFC	O HUH	NAG 5 9245	234
32	MASSACHUSETTS INST OF TECH	B WILDES	GSFC	A R WHITNEY	NAS 5 31728	297
32	MASSACHUSETTS INST OF TECH	D G SENSKE	GSFC	J WISDOM	NAG 5 3915	289
32	MASSACHUSETTS INST OF TECH	E ENGMAN	GSFC	R BRASS	NAG 5 7475	292
32	MASSACHUSETTS INST OF TECH	E KREINS	GSFC	D H STAELIN	NAS 5 31376	297
32	MASSACHUSETTS INST OF TECH	H BRINTON	GSFC	D R ZUBER	NAG 5 4555	290
32	MASSACHUSETTS INST OF TECH	H FREY	GSFC	P MOLNAR	NAG 5 4807	290
32	MASSACHUSETTS INST OF TECH	H V FREY	GSFC	A E NIELL	NAG 5 6063	291
32	MASSACHUSETTS INST OF TECH	H V FREY	GSFC	B C FIELD	NAG 5 6062	291
32	MASSACHUSETTS INST OF TECH	H V FREY	GSFC	K X WHIPPLE	NAG 5 10389	295
32	MASSACHUSETTS INST OF TECH	H V FREY	GSFC	M T ZURBER	NAG 5 9143	294
32	MASSACHUSETTS INST OF TECH	H V FREY	GSFC	R E REILINGER	NAG 5 6145	291
32	MASSACHUSETTS INST OF TECH	H V FREY	GSFC	R E REILINGER	NAG 5 9057	293
32	MASSACHUSETTS INST OF TECH	H V FREY	GSFC	R L BRAS	NAG 5 10684	295
32	MASSACHUSETTS INST OF TECH	J G GRANT	GSFC	D G FORD	NAG 5 4047	290
32	MASSACHUSETTS INST OF TECH	P TAYLOR	GSFC	T A HERRING	NAG 5 3550	289
32	MICHIGAN TECHNOLOGICAL UNIV	B CAMPBELL	GSFC	D FTACLAS	NAG 5 6310	309
32	MICHIGAN TECHNOLOGICAL UNIV	H V FREY	GSFC	G J BLUTH	NAG 5 7576	309
32	MICHIGAN TECHNOLOGICAL UNIV	M S BURRELL	GSFC	W I ROSE	NGT 5 76	309
32	MORGAN STATE UNIV	P TAYLOR	GSFC	E C HAMMOND	NAG 5 11229	254
32	NEW MEXICO STATE UNIV - LAS CRUCES	P ROGERS	GSFC	V SOLOMATOV	NAG 5 6897	362
32	NORTHWESTERN UNIV	H V FREY	GSFC	S STEIN	NAG 5 10306	202
32	NORTHWESTERN UNIV	R S BALDWIN	GRC	D S ROBINSON	NAG 5 4354	202
32	OHIO STATE UNIV	B DAVIS	SSC	K BOYER	NAG13 00039	418
32	OHIO STATE UNIV	H V FREY	GSFC	C K SHUM	NAG 5 7574	415
32	OHIO STATE UNIV	P TAYLOR	GSFC	R R VON FRESE	NAG 5 9883	416
32	OHIO STATE UNIV	P TAYLOR	GSFC	R VON FRESE	NAG 5 2996	414
32	OHIO STATE UNIV	S H GOGINENI	GSFC	T J WILSON	NAG 5 4250	414
32	OHIO UNIV	H V FREY	GSFC	R R VON FRESE	NAG 5 7645	419
32	PENN STATE UNIV	E T ENGMAN	GSFC	J L EVANS	NAG 5 7547	446
32	PENN STATE UNIV	H FREY	GSFC	S FELDSTEIN	NAG 5 6207	445
32	PENN STATE UNIV	H V FREY	GSFC	D W BURBANK	NAG 5 9039	446
32	PENN STATE UNIV	M S BURRELL	GSFC	R B ALLEY	NGT 5 118	451
32	POMONA COLLEGE	J BOYCE	GSFC	E GROSFILS	NAG 5 9618	54
32	PRINCETON UNIV	E T ENGMAN	GSFC	J A SMITH	NAG 5 7544	353
32	PRINCETON UNIV	H V FREY	GSFC	E WOOD	NAG 5 6511	352

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32	RUTGERS ST UNIV N	E T ENGMAN	GSFC	D ROBINSON	NAG 5 7564	357
32	SAN JOSE STATE UNIV	H L D'ANTONI	ARC	P MESSINA	NCC 2 5402	58
32	SAN JOSE STATE UNIV	I STATLER	ARC	D A MAROUF	NAG 5 4372	55
32	SOUTHERN ILLINOIS UNIV - CARBONDALE	H V FREY	GSFC	D RAVAT	NAG 5 7662	203
32	SOUTHERN ILLINOIS UNIV - CARBONDALE	P T TAYLOR	GSFC	D RAVAT	NAG 5 7771	204
32	SOUTHERN ILLINOIS UNIV - CARBONDALE	P TAYLOR	GSFC	D RAVAT	NAG 5 9832	204
32	SOUTHERN METHODIST UNIV	D A SENSKE	GSFC	V L HANSEN	NAG 5 9142	479
32	SOUTHERN METHODIST UNIV	J GRANT	GSFC	D L HANSEN	NAG 5 4562	479
32	SOUTHERN METHODIST UNIV	P ROGERS	GSFC	D L HANSEN	NAG 5 4609	479
32	STANFORD UNIV	D J DES MARAIS	ARC	D R LOWE	NCC 2 721	64
32	STANFORD UNIV	H V FREY	GSFC	H A ZEBKER	NAG 5 6148	61
32	STANFORD UNIV	H V FREY	GSFC	H A ZEBKER	NAG 5 9040	62
32	STANFORD UNIV	H V FREY	GSFC	H ZEBKER	NAG 5 3441	60
32	STANFORD UNIV	H V FREY	GSFC	P SEGALL	NAG 5 6167	61
32	STANFORD UNIV	P G ROGERS	GSFC	G TYLER	NAG 5 3906	60
32	STATE UNIV OF NY - ALBANY	H V FREY	GSFC	H MASSONE	NAG 5 9690	387
32	STATE UNIV OF NY - BINGHAMTON	H FREY	GSFC	S DICKMAN	NAG 5 9069	387
32	STATE UNIV OF NY - BUFFALO	J A GRANT	GSFC	T GREGG	NAG 5 9390	387
32	STATE UNIV OF NY - STONY BROOK	H V FREY	GSFC	W E HOLT	NAG 5 9053	390
32	STATE UNIV OF NY COL - PURCHASE	T MORGAN	GSFC	D A GRANT	NAG 5 4157	391
32	STATE UNIV OF NY COL	H V FREY	GSFC	M BURSIK	NAG 5 7581	392
32	STATE UNIV OF NY COL	H V FREY	GSFC	M F SHERIDAN	NAG 5 7579	392
32	STATE UNIV OF NY COL	H V FREY	GSFC	M I BURSIK	NAG 5 10648	392
32	STATE UNIV OF NY COL	J G GRANT	GSFC	GREGG	NAG 5 4544	392
32	THE AMERICAN UNIV	P TAYLOR	GSFC	J KUTINA	NAG 5 10027	156
32	THE UNIV OF CENTRAL FLORIDA	J QUINN	KSC	C GEIGER	NAG10 215	169
32	UNIV OF MINN	C HILL	SSC	M E BAUER	NAG13 99002	324
32	UNIV OF MINN	D SENKE	GSFC	D L KOHLSTEDT	NAG 5 10509	323
32	UNIV OF MINN	E T ENGMAN	GSFC	M PERSON	NAG 5 7599	322
32	UNIV OF MINN	J ARNOLD	MSFC	E FOUFOULA-GEORGIU	NAG 8 1519	324
32	UNIV OF MINN	M MELLOTT	GSFC	R LYSAK	NAG 5 9254	323
32	UNIV OF MINN	P ROGERS	GSFC	D L KOHLSTEDT	NAG 5 6797	322
32	UNIV	D SENSKE	GSFC	G M MARION	NAG 5 10445	341
32	U NACIONAL DE SAN AGUSTIN - AREQUIPA	D L CARTER	GSFC	N APPLICABLE	NAS 5 99121	559
32	UNIV OF ALABAMA - HUNTSVILLE	M MELLOTT	GSFC	P RICHARDS	NAG 5 9200	9
32	UNIV OF ALASKA - FAIRBANKS	H V FREY	GSFC	J T FREYMUELLER	NAG 5 7659	17
32	UNIV OF ARIZONA	D BOGAN	GSFC	J I LUNINE	NAG 5 8949	31
32	UNIV OF ARIZONA	D SENSKE	GSFC	D KRING	NAG 5 10332	34
32	UNIV OF ARIZONA	D SENSKE	GSFC	E TURTLE	NAG 5 10166	33
32	UNIV OF ARIZONA	D SENSKE	GSFC	J I LUNINE	NAG 5 10294	34
32	UNIV OF ARIZONA	D SENSKE	GSFC	R MALHOTRA	NAG 5 10346	34
32	UNIV OF ARIZONA	D SENSKE	GSFC	R TUFTS	NAG 5 10167	33
32	UNIV OF ARIZONA	E ENGMAN	GSFC	W SHUTTLEWORTH	NAG 5 7554	28
32	UNIV OF ARIZONA	G A SOFFEN	GSFC	A S MCEWEN	NGT 5 110	39
32	UNIV OF ARIZONA	H V FREY	GSFC	V R BAKER	NAG 5 9293	32
32	UNIV OF ARIZONA	J GRANT	GSFC	L KESZTHELYI	NAG 5 9176	31
32	UNIV OF ARIZONA	M S BURRELL	GSFC	A S MCEWEN	NGT 5 114	39
32	UNIV OF ARIZONA	P G ROGERS	GSFC	R G STROM	NAG 5 3914	26
32	UNIV OF ARIZONA	P G ROGERS	GSFC	R GREENBERG	NAG 5 3631	26
32	UNIV OF ARIZONA	P ROGERS	GSFC	D H BROWN	NAG 5 3796	26
32	UNIV OF ARIZONA	P ROGERS	GSFC	H MELOSH	NAG 5 6543	27
32	UNIV OF ARIZONA	PROGERS	GSFC	D C PORCO	NAG 5 4451	27
32	UNIV OF ARIZONA	T MORGAN	GSFC	R S MCMILLAN	NAG 5 6611	27
32	UNIV OF ARIZONA	T MORGAN	GSFC	S LARSON	NAG 5 10543	34
32	UNIV OF CALIFORNIA - BERKELEY	H V FREY	GSFC	R BURGMANN	NAG 5 7580	71
32	UNIV OF CALIFORNIA - BERKELEY	H V FREY	GSFC	W E DIETRICH	NAG 5 9629	73
32	UNIV OF CALIFORNIA - BERKELEY	P TAYLOR	GSFC	M RICHARDS	NAG 5 9864	73
32	UNIV OF CALIFORNIA - DAVIS	H V FREY	GSFC	J MINSTER	NAG 5 3001	80
32	UNIV OF CALIFORNIA - DAVIS	R MCKELLIP	SSC	D W TATE	NAG13 99023	81
32	UNIV OF CALIFORNIA - LOS ANGELES	E T ENGMAN	GSFC	L C SMITH	NAG 5 7555	90
32	UNIV OF CALIFORNIA - LOS ANGELES	E T ENGMAN	GSFC	Y XUE	NAG 5 9014	91
32	UNIV OF CALIFORNIA - LOS ANGELES	H V FREY	GSFC	D E ALSDORF	NAG 5 10685	93
32	UNIV OF CALIFORNIA - LOS ANGELES	J SHARBER	GSFC	M EL-ALAOU	NAG 5 9255	92
32	UNIV OF CALIFORNIA - LOS ANGELES	J SPANN	GSFC	D SCHRIVER	NAG 5 10473	93

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32	UNIV OF CALIFORNIA - LOS ANGELES	P G ROGERS	GSFC	W M KAULA	NAG 5 3956	88
32	UNIV OF CALIFORNIA - LOS ANGELES	W ABDALATI	GSFC	G PELTZER	NAG 5 11102	94
32	UNIV OF CALIFORNIA - SAN DIEGO	B CAMPBELL	GSFC	P L BADA	NAG 5 4938	97
32	UNIV OF CALIFORNIA - SAN DIEGO	H B FREY	GSFC	R L PARKER	NAG 5 7612	99
32	UNIV OF CALIFORNIA - SAN DIEGO	H V FREY	GSFC	C G CONSTABLE	NAG 5 7614	99
32	UNIV OF CALIFORNIA - SAN DIEGO	H V FREY	GSFC	D C AGNEW	NAG 5 6149	97
32	UNIV OF CALIFORNIA - SAN DIEGO	H V FREY	GSFC	D C AGNEW	NCC 5 230	104
32	UNIV OF CALIFORNIA - SAN DIEGO	H V FREY	GSFC	D T SANDWELL	NAG 5 5176	97
32	UNIV OF CALIFORNIA - SAN DIEGO	H V FREY	GSFC	D T SANDWELL	NAG 5 9623	101
32	UNIV OF CALIFORNIA - SAN DIEGO	H V FREY	GSFC	J B RAND	NAG 5 6150	98
32	UNIV OF CALIFORNIA - SANTA BARBARA	H V FREY	GSFC	D E ALSDORF	NAG 5 9055	108
32	UNIV OF CALIFORNIA - SANTA BARBARA	H V FREY	GSFC	D W BURBANK	NAG 5 10520	108
32	UNIV OF CALIFORNIA - SANTA BARBARA	H V FREY	GSFC	L K MERTES	NAG 5 9811	108
32	UNIV OF CALIFORNIA - SANTA BARBARA	J G GRANT	GSFC	S J PEALE	NAG 5 3646	106
32	UNIV OF CALIFORNIA - SANTA BARBARA	R MCKELLIP	JSC	O CHADWICK	NAG13 99025	109
32	UNIV OF CALIFORNIA - SANTA BARBARA	T BRAKKE	GSFC	D DOZLER	NAS 5 31710	109
32	UNIV OF CALIFORNIA - SANTA CRUZ	D SENSKE	GSFC	E ASPHAUG	NAG 5 10676	113
32	UNIV OF CALIFORNIA - SANTA CRUZ	J A GRANT	GSFC	E ASPHAUG	NAG 5 9391	112
32	UNIV OF CHARLESTON -WEST VIRGINIA	D A MORRISON	JSC	C COOMBS	NGT 9 24	545
32	UNIV OF COLORADO - BOULDER	A T CHANG	GSFC	R L ARMSTRONG	NAG 5 4506	126
32	UNIV OF COLORADO - BOULDER	C P MCKAY	ARC	B TOON	NGT 2 52279	140
32	UNIV OF COLORADO - BOULDER	D SENSKE	GSFC	B JAKOSKY	NAG 5 10413	135
32	UNIV OF COLORADO - BOULDER	D SENSKE	GSFC	M T MELLON	NAG 5 10155	134
32	UNIV OF COLORADO - BOULDER	E T ENGMAN	GSFC	A FREI	NAG 5 7543	129
32	UNIV OF COLORADO - BOULDER	H V FREY	GSFC	J B RUNDLE	NAG 5 5168	127
32	UNIV OF COLORADO - BOULDER	H V FREY	GSFC	J B RUNDLE	NAG 5 9448	133
32	UNIV OF COLORADO - BOULDER	H V FREY	GSFC	J M WAHR	NAG 5 7703	130
32	UNIV OF COLORADO - BOULDER	H V FREY	GSFC	K M LARSON	NAG 5 6147	127
32	UNIV OF COLORADO - BOULDER	H V FREY	GSFC	R G BILHAM	NAG 5 10418	135
32	UNIV OF COLORADO - BOULDER	H V FREY	GSFC	S R NEREM	NAG 5 11192	137
32	UNIV OF COLORADO - BOULDER	H V FREY	GSFC	V GUPTA	NAG 5 10954	137
32	UNIV OF COLORADO - BOULDER	J A GRANT	GSFC	R E GRIMM	NAG 5 9491	133
32	UNIV OF COLORADO - BOULDER	J BOYCE	GSFC	A R HENDRIX	NAG 5 9590	133
32	UNIV OF COLORADO - BOULDER	J GRANT	GSFC	M T MELLON	NAG 5 8910	132
32	UNIV OF COLORADO - BOULDER	J SCHARBER	GSFC	S SOLOMON	NAG 5 9201	133
32	UNIV OF COLORADO - BOULDER	J SHARBER	GSFC	M HORANYI	NAG 5 9172	132
32	UNIV OF COLORADO - BOULDER	J SPANN	GSFC	X LI	NAG 5 10474	135
32	UNIV OF COLORADO - BOULDER	P G ROGERS	GSFC	B M JAKOSKY	NAG 5 3763	125
32	UNIV OF COLORADO - BOULDER	P ROGERS	GSFC	D R STEWART	NAG 5 4163	126
32	UNIV OF COLORADO - BOULDER	P T TAYLOR	GSFC	J WAHR	NAG 5 3143	125
32	UNIV OF DELAWARE - BARTOL RES. INST	E T ENGMAN	GSFC	D LEATHERS	NAG 5 7545	151
32	UNIV OF FLORIDA	P ROGERS	HQ	D F DERMOTT	NAG 5 4531	172
32	UNIV OF GEORGIA	E T ENGMAN	GSFC	T L MOTE	NAG 5 8469	190
32	UNIV OF HAWAII AT MANOA - HONOLULU	H V FREY	GSFC	P J MOUGINIS-MARK	NAG 5 7578	193
32	UNIV OF HAWAII AT MANOA - HONOLULU	H V FREY	GSFC	P J MOUGINIS-MARK	NAG 5 9038	195
32	UNIV OF HAWAII AT MANOA - HONOLULU	J GRANT	GSFC	B HAWKE	NAG 5 8903	195
32	UNIV OF HAWAII AT MANOA - HONOLULU	J GRANT	GSFC	S K ROWLAND	NAG 5 7963	194
32	UNIV OF HAWAII AT MANOA - HONOLULU	P G ROGERS	GSFC	B R HAWKE	NAG 5 3635	192
32	UNIV OF HAWAII AT MANOA - HONOLULU	P G ROGERS	GSFC	E R HAWKE	NAG 5 3875	192
32	UNIV OF HAWAII AT MANOA - HONOLULU	P G ROGERS	GSFC	J F BELL	NAG 5 3625	191
32	UNIV OF HAWAII AT MANOA - HONOLULU	P G ROGERS	GSFC	P G LUCEY	NAG 5 3766	192
32	UNIV OF HAWAII AT MANOA - HONOLULU	P ROGERS	GSFC	T OWEN	NAG 5 6829	193
32	UNIV OF HAWAII AT MANOA - HONOLULU	R H THOMAS	GSFC	P MOUGINIS-MARK	NAG 5 4257	192
32	UNIV OF HOUSTON - DOWNTOWN	E K GIBSON	JSC	P A MORRIS-SMITH	NAG 9 1113	491
32	UNIV OF HOUSTON - DOWNTOWN	E K GIBSON	JSC	P A MORRIS-SMITH	NAG 9 1114	491
32	UNIV OF ILLINOIS - CHICAGO CIRCLE	E T ENGMAN	GSFC	R D CRAGO	NAG 5 7600	208
32	UNIV OF KANSAS	R MCKALLIP	SSC	M JAKUBAUSKAS	NAG13 99019	229
32	UNIV OF MARYLAND - COLLEGE PARK	H V FREY	GSFC	G SUN	NAG 5 10388	265
32	UNIV OF MARYLAND - COLLEGE PARK	J B GARVIN	GSFC	R DUBAYAH	NAG 5 8105	260
32	UNIV OF MARYLAND BALTIMORE COUNTY	H V FREY	GSFC	E C PAVLIS	NAG 5 9054	273
32	UNIV OF MASSACHUSETTS - AMHERST	H V FREY	GSFC	C C DUNCAN	NAG 5 10649	303
32	UNIV OF MASSACHUSETTS - AMHERST	P ROGERS	GSFC	D E MCGILL	NAG 5 4373	302
32	UNIV OF MASSACHUSETTS - AMHERST	P ROGERS	GSFC	G MCGILL	NAG 5 4999	302
32	UNIV OF MASSACHUSETTS - AMHERST	T MORGAN	GSFC	F SCHOERB	NAG 5 6612	302

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32	UNIV OF MIAMI	H V FREY	GSFC	T H DIXON	NAG 5 9068	177
32	UNIV OF MIAMI	J L RAPER	LARC	T H DIXON	NAG 5 6033	176
32	UNIV OF MICHIGAN - ANN ARBOR	H V FREY	GSFC	K SARABANDI	NAG 5 8930	314
32	UNIV OF MISSISSIPPI - MEDICAL CTR	H V FREY	GSFC	J K JOHNSON	NAG 5 7671	328
32	UNIV OF MISSISSIPPI - UNIV	N SOVIK	SSC	G EASSON	NAG13 00037	328
32	UNIV OF MISSOURI - COLUMBIA	H V FREY	GSFC	M LIU	NAG 5 9145	330
32	UNIV OF MONTANA	E K GIBSON	JSC	N C HINMAN	NAG 9 1112	339
32	UNIV OF NEBRASKA - LINCOLN	F HORZZ	JSC	D R ALEXANDER	NAG 9 1310	340
32	UNIV OF NEVADA - RENO	D A SENSKE	GSFC	R A SCHULTZ	NAG 5 10926	342
32	UNIV OF NEVADA - RENO	D SENKE	GSFC	W CALVIN	NAG 5 10290	342
32	UNIV OF NEVADA - RENO	J A GRANT	GSFC	G M MARION	NAG 5 9467	342
32	UNIV OF NEVADA - RENO	J A GRANT	GSFC	W CALVIN	NAG 5 9298	342
32	UNIV OF NEW HAMPSHIRE - DURHAM	E T ENGMAN	GSFC	L D DINGMAN	NAG 5 7601	347
32	UNIV OF NEW HAMPSHIRE - DURHAM	P BUCHANAN	GSFC	K LYNCH	NAG 5 10472	348
32	UNIV OF NEW MEXICO-ALBUQUERQUE	E K GIBSON	JSC	J J PAPIKE	NAG 9 1111	366
32	UNIV OF NEW MEXICO-ALBUQUERQUE	J GRANT	GSFC	H NEWSOM	NAG 5 8804	365
32	UNIV OF NEW MEXICO-ALBUQUERQUE	J H JONES	JSC	C D HERD	NGT 9 31	366
32	UNIV OF PITTSBURGH	D SENSKE	GSFC	B W HAPKE	NAG 5 10222	455
32	UNIV OF PITTSBURGH	H V FREY	GSFC	M S RAMSEY	NAG 5 9438	455
32	UNIV OF PITTSBURGH	H V FREY	GSFC	M S RAMSEY	NAG 5 9439	455
32	UNIV OF PITTSBURGH	J A GRANT	GSFC	D A CROWN	NAG 5 9466	455
32	UNIV OF PITTSBURGH	J G GRANT	GSFC	D A CROWN	NAG 5 3642	454
32	UNIV OF PITTSBURGH	M S BURRELL	GSFC	D A CROWN	NGT 5 125	456
32	UNIV OF PITTSBURGH	P G ROGERS	GSFC	S W HAPKE	NAG 5 3723	454
32	UNIV OF PUERTO RICO - MAYAGUEZ	H FREY	GSFC	G MATTIOLI	NAG 5 6031	557
32	UNIV OF TENNESSEE - KNOXVILLE	T L ROUSH	ARC	J E MOERSCH	NCC 2 1187	471
32	UNIV OF TEXAS - AUSTIN	F HERBERT	GSFC	B TAPLEY	NAG 5 9163	494
32	UNIV OF TEXAS - AUSTIN	H V FREY	GSFC	C R WILSON	NAG 5 8798	494
32	UNIV OF TEXAS - AUSTIN	H V FREY	GSFC	J C CARTER	NAG 5 7693	493
32	UNIV OF TEXAS - AUSTIN	H V FREY	GSFC	J C GIBEAUT	NAG 5 7660	493
32	UNIV OF TEXAS - AUSTIN	H V FREY	GSFC	J G PAINE	NAG 5 7582	493
32	UNIV OF TEXAS - AUSTIN	H V FREY	GSFC	M CHENG	NAG 5 5170	493
32	UNIV OF TEXAS - AUSTIN	H V FREY	GSFC	R R EM	NAG 5 5171	493
32	UNIV OF TEXAS - AUSTIN	M S BURRELL	GSFC	J S FAMIGLIETTI	NGT 5 81	498
32	UNIV OF TEXAS - AUSTIN	T MORGAN	GSFC	L M TRAFTON	NAG 5 6754	493
32	UNIV OF TEXAS - EL PASO	D MENCHAN	GSFC	D SCHULZ-MAKUCH	NAG 5 9542	499
32	UNIV OF TEXAS - EL PASO	J SPANN	GSFC	R LOPEZ	NAG 5 10507	499
32	UNIV OF UTAH	R J LAWRENCE	GSFC	R L BRUHN	NAG 5 10136	503
32	UNIV OF VIRGINIA	D SENSKE	GSFC	R E JOHNSON	NAG 5 10173	525
32	UNIV OF VIRGINIA	J G GRANT	GSFC	A D HOWARD	NAG 5 3931	523
32	UNIV OF VIRGINIA	P G ROGERS	GSFC	R E JOHNSON	NAG 5 3633	523
32	UNIV OF VIRGINIA	P ROGERS	GSFC	D A BARAGIOLA	NAG 5 4332	523
32	UNIV OF WASHINGTON	E T ENGMAN	GSFC	L TSANG	NAG 5 7495	537
32	UNIV OF WASHINGTON	E T ENGMAN	GSFC	W J PLANT	NAG 5 7550	537
32	UNIV OF WASHINGTON	H FREY	GSFC	D LETTENMAIER	NAG 5 6505	536
32	UNIV OF WASHINGTON	H V FREY	GSFC	A GILLESPIE	NAG 5 6067	536
32	UNIV OF WASHINGTON	H V FREY	GSFC	D R MONTGOMERY	NAG 5 10342	539
32	UNIV OF WISCONSIN - MADISON	B CAMPBELL	GSFC	D A SROMOVSKY	NAG 5 6248	548
32	UNIV OF WISCONSIN - MADISON	H V FREY	GSFC	P MENZEL	NAG 5 9688	551
32	UTAH STATE UNIV	E T ENGMAN	GSFC	D G TARBOTON	NAG 5 7597	504
32	WASHINGTON STATE UNIV	D SENSKE	GSFC	D HUDSON	NAG 5 10462	543
32	WASHINGTON STATE UNIV	J G GRANT	GSFC	D HUDSON	NAG 5 4035	543
32	WASHINGTON UNIV - ST	B CAMPBELL	GSFC	D FEGLEY	NAG 5 6125	333
32	WASHINGTON UNIV - ST	D G SENSKE	GSFC	R E ARVIDSON	NAG 5 3870	332
32	WASHINGTON UNIV - ST	D SENSKE	GSFC	R E ARVIDSON	NAG 5 10190	335
32	WASHINGTON UNIV - ST	H V FREY	GSFC	R E ARVIDSON	NAG 5 7613	334
32	WASHINGTON UNIV - ST	J GRANT	GSFC	B L JOLLIFF	NAG 5 8905	334
32	WASHINGTON UNIV - ST	P G ROGERS	GSFC	W B MCKINNON	NAG 5 3657	332
32	WASHINGTON UNIV - ST	P ROGERS	GSFC	B L JOLLIFF	NAG 5 6784	333
32	WASHINGTON UNIV - ST	P ROGERS	GSFC	D J PHILLIPS	NAG 5 4448	333
32	WASHINGTON UNIV - ST	P ROGERS	GSFC	R ARVIDSON	NAG 5 6756	333
32	WELLESLEY COLLEGE	J G GRANT	GSFC	R G FRENCH	NAG 5 4046	304
33	CALIFORNIA INST OF TECH	S LONG	WFF	T WU	NAG 5 5338	44
33	CALIFORNIA INST OF TECH	S R LONG	GSFC	T Y WU	NAG 5 5207	43

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33	DARTMOUTH COLLEGE	R MILLER	SSC	D LYNCH	NAG13 00041	344
33	DUKE UNIV	J CAMPBELL	GSFC	R T BARBER	NAG 5 6988	395
33	FLORIDA STATE UNIV	E LINDSRATOM	GSFC	D NOF	NAG 5 10860	168
33	FLORIDA STATE UNIV	E LINDSTROM	GSFC	J J O	NAG 5 7254	167
33	FLORIDA STATE UNIV	M RIENECKER	GSFC	W WEWAR	NAG 5 8291	167
33	FLORIDA STATE UNIV	W ESAIAS	GSFC	R L IVERSON	NAG 5 7618	167
33	GEORGE MASON UNIV	M RIENECKER	GSFC	P S SCHOPF	NCC 5 522	510
33	GEORGE MASON UNIV	M RIENECKER	GSFC	P SCHOPF	NCC 5 245	510
33	JOHNS HOPKINS UNIV	R MILLER	SSC	D R THOMPSON	NAG13 00045	251
33	JOHNS HOPKINS UNIV	S J KATZBERG	LARC	M S ASHER	NAG 1 2257	240
33	JOHNS HOPKINS UNIV	S R LONG	GSFC	E GROSS	NAG 5 5314	242
33	JOHNS HOPKINS UNIV	S R LONG	GSFC	O PHILLIPS	NAG 5 5047	242
33	MASSACHUSETTS INST OF TECH	J A YODER	GSFC	S W CHISHOLM	NAG 5 3727	289
33	MISSISSIPPI STATE UNIV	D POWE	SSC	L RITCHIE	NAS13 98033	328
33	NORTH CAROLINA STATE UNIV	J A MARRA	GSFC	D KAMYKOWSKI	NAG 5 6586	400
33	OHIO STATE UNIV	W ABDALATI	GSFC	C V DER VEEN	NAG 5 10978	417
33	OLD DOMINION UNIV	C MCCLAIN	GSFC	G F COTA	NAS 5 97132	518
33	OLD DOMINION UNIV	J MARRA	GSFC	G F COTA	NAG 5 10528	518
33	OREGON STATE UNIV	H OSEROFF	GSFC	M R ABBOTT	NAS 5 31360	433
33	OREGON STATE UNIV	J A MARRA	GSFC	M R ABBOTT	NAG 5 4947	431
33	OREGON STATE UNIV	J MARRA	GSFC	E BOSS	NAG 5 11148	433
33	OREGON STATE UNIV	J MARRA	GSFC	K S SHIFRIN	NAG 5 10623	433
33	OREGON STATE UNIV	J R MOISAN	GSFC	R M LETELIER	NAG 5 5311	431
33	OREGON STATE UNIV	M T FLYNN	ARC	G P KLINKHAMMER	NCC 2 5427	434
33	OREGON STATE UNIV	R RAY	GSFC	G D EGBERT	NAG 5 9159	432
33	SAN DIEGO STATE UNIV	C R CRANE	GSFC	J L MUELLER	NAS 5 00199	54
33	SAN DIEGO STATE UNIV	C R MCCLAIN	GSFC	C C TREES	NAS 5 00202	54
33	SAN DIEGO STATE UNIV	C R MCCLAIN	GSFC	J L MUELLER	NAS 5 97126	54
33	STANFORD UNIV	J MARRA	GSFC	K ARRIGO	NAG 5 11264	63
33	STATE UNIV OF NY - STONY BROOK	E LINDSTROM	GSFC	D WALISER	NAG 5 11033	390
33	STEVENS INST OF TECH	C MCCLAIN	GSFC	K STAMNES	NAS 5 99238	360
33	TEXAS A&M UNIV	E LINDSTROM	GSFC	W NOWLIN	NAG 5 10829	482
33	TEXAS A&M UNIV	W ABDALATI	GSFC	S STOESSEL	NAG 5 10641	482
33	U OF MD CTR FOR ENVIR SCI-CAMBRIDGE	C R MCCLAIN	GSFC	L W HARDING	NAS 5 00195	255
33	UNIV OF MINN	M T FLYNN	ARC	W E SEYFRIED	NCC 2 5340	324
33	UNIV OF ARIZONA	C R MCCCLAIN	GSFC	J ZALEWSKI	NAS 5 00197	38
33	UNIV OF CALIFORNIA - IRVINE	S R LONG	GSFC	J N YANG	NAG 5 5149	85
33	UNIV OF CALIFORNIA - SAN DIEGO	C KOBLINSKY	GSFC	P P NIILER	NAG 5 8351	99
33	UNIV OF CALIFORNIA - SAN DIEGO	C R MCCAIN	GSFC	R FROUIN	NAS 5 00194	102
33	UNIV OF CALIFORNIA - SAN DIEGO	C R MCCLAIN	GSFC	B G MITCHELL	NAS 5 01002	102
33	UNIV OF CALIFORNIA - SAN DIEGO	C R MCCLAIN	GSFC	B G MITCHELL	NAS 5 97130	103
33	UNIV OF CALIFORNIA - SAN DIEGO	E LINDSTROM	GSFC	W WHITE	NAG 5 7096	98
33	UNIV OF CALIFORNIA - SAN DIEGO	G A SOFFEN	GSFC	B G MITCHELL	NGT 5 106	104
33	UNIV OF CALIFORNIA - SAN DIEGO	J A YODER	GSFC	R KEELING	NAG 5 6179	98
33	UNIV OF CALIFORNIA - SAN DIEGO	J MARRA	GSFC	R KEELING	NAG 5 10737	102
33	UNIV OF CALIFORNIA - SAN DIEGO	J MUELLER	GSFC	K STAMNES	NAS 5 97139	103
33	UNIV OF CALIFORNIA - SANTA BARBARA	C MCCLAIN	GSFC	D A SIEGEL	NAS 5 97125	109
33	UNIV OF CALIFORNIA - SANTA BARBARA	C MCCLAIN	GSFC	T D DICKEY	NAS 5 97127	109
33	UNIV OF CALIFORNIA - SANTA BARBARA	C R MCCLAIN	GSFC	D A SIEGEL	NAS 5 00200	109
33	UNIV OF CALIFORNIA - SANTA BARBARA	C R MCCLAIN	GSFC	D A SIEGEL	NAS 5 00201	109
33	UNIV OF CALIFORNIA - SANTA BARBARA	C R MCCLAIN	GSFC	D SIEGEL	NAS 5 99083	109
33	UNIV OF CALIFORNIA - SANTA BARBARA	C R MCCLAIN	GSFC	S MARITORENA	NAS 5 00196	109
33	UNIV OF CALIFORNIA - SANTA BARBARA	H OSEROFF	GSFC	Z WAN	NAS 5 31370	109
33	UNIV OF COLORADO - BOULDER	E LINDSTROM	GSFC	P AXELRAD	NAG 5 9727	134
33	UNIV OF COLORADO - BOULDER	E LINDSTROM	GSFC	W EMERY	NAG 5 7365	129
33	UNIV OF DELAWARE	S K RUNCO	JSC	V KLEMAS	NAG 9 989	150
33	UNIV OF GEORGIA	G ASRAR	GSFC	B BINDER	NGT 5 30017	191
33	UNIV OF HAWAII AT MANOA - HONOLULU	C MCLAIN	GSFC	J PORTER	NAS 5 97136	198
33	UNIV OF HAWAII AT MANOA - HONOLULU	P GLOERSEN	GSFC	L MAGAARD	NAG 5 7485	193
33	UNIV OF MAINE - ORONO	J MARRA	GSFC	A THOMAS	NAG 5 10620	239
33	UNIV OF MARYLAND - COLLEGE PARK	C R MCCLAIN	GSFC	A SUBRAMANIAM	NAS 5 00192	268
33	UNIV OF MARYLAND - COLLEGE PARK	E LINDSTROM	GSFC	R MURTUGUDDE	NAG 5 10981	267
33	UNIV OF MARYLAND - COLLEGE PARK	E LINDSTROM	GSFC	R WAJSOWICZ	NAG 5 3960	257
33	UNIV OF MARYLAND - COLLEGE PARK	M RIENECKER	GSFC	R WAJSOWICZ	NAG 5 11291	268
33	UNIV OF MARYLAND - COLLEGE PARK	N MAYNARD	GSFC	L WANG	NAG 5 4186	257

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33	UNIV OF MIAMI	H OSEROFF	GSFC	O B BROWN	NAS 5 31361	177
33	UNIV OF MIAMI	J DODGE	GSFC	R EVANS	NAG 5 10588	177
33	UNIV OF PUERTO RICO - MAYAGUEZ	C W WRIGHT	WFF	E WEIL	NAG 5 5302	556
33	UNIV OF PUERTO RICO - MAYAGUEZ	R L MILLER	SSC	R A ARMSTRONG	NAG13 54	557
33	UNIV OF RHODE ISLAND	E LINDSTROM	GSFC	D CONRILLON	NAG 5 6077	460
33	UNIV OF RHODE ISLAND	E LINDSTROM	GSFC	P CORNILLON	NAG 5 3736	460
33	UNIV OF RHODE ISLAND	J MARRA	GSFC	J YODER	NAG 5 10555	461
33	UNIV OF RHODE ISLAND	M MAIDEN	GSFC	P CORNILLON	NCC 5 307	461
33	UNIV OF SOUTH FLORIDA	C R MCCLAIN	GSFC	F E MULLER-KARGER	NAS 5 97128	179
33	UNIV OF SOUTH FLORIDA	G S HAYNE	GSFC	G T MITCHUM	NAG 5 5202	178
33	UNIV OF SOUTH FLORIDA	J MARRA	GSFC	C CHU	NAG 5 10738	178
33	UNIV OF SOUTH FLORIDA	J YODER	GSFC	P COBLE	NAG 5 6301	178
33	UNIV OF SOUTHERN CALIFORNIA	C MCCLAIN	GSFC	D G CAPONE	NAS 5 99232	118
33	UNIV OF SOUTHERN CALIFORNIA	J A YODER	GSFC	D A KIEFER	NAG 5 6360	116
33	UNIV OF SOUTHERN MISSISSIPPI	J A CAMPBELL	GSFC	S LOHRENZ	NAG 5 4570	329
33	UNIV OF SOUTHERN MISSISSIPPI	J MARRA	GSFC	S E LOHRENZ	NAG 5 9770	329
33	UNIV OF WASHINGTON	A ANDERSON	GSFC	D L HARTMANN	NAG 5 10624	540
33	UNIV OF WASHINGTON	J A CURRAN	GSFC	D HARTMANN	NAG 5 6101	536
33	UNIV OF WASHINGTON	J MARRA	GSFC	S RISER	NAG 5 11079	540
33	UNIVERSITY OF WISCONSIN-OSHKOSH	K R ARRIGO	GSFC	M P LIZOTTE	NAG 5 4108	555
33	VA POLYTECH INST & ST UNIV	G E KAYNE	GSFC	G E BROWN	NAG 5 5099	530
33	WOODS HOLE OCEANOGRAPHIC INST	C R MCCLAIN	GSFC	J R MORRISON	NAS 5 00198	305
33	WOODS HOLE OCEANOGRAPHIC INST	J A YODER	GSFC	D M GLOVER	NAG 5 6456	305
33	WOODS HOLE OCEANOGRAPHIC INST	J COMISO	GSFC	J YANG	NAG 5 7348	305
33	WOODS HOLE OCEANOGRAPHIC INST	J MARRA	GSFC	D M GLOVER	NAG 5 9858	305
33	WOODS HOLE OCEANOGRAPHIC INST	M RIENECKER	GSFC	L YU	NCC 5 441	305
39	ALABAMA A&M UNIV	R HOOVER	MSFC	M G TADROS	NAG 8 1624	2
39	ALLEGHENY COLLEGE	A J TUYAHOV	GSFC	D BENDEL	NAG 5 3617	435
39	ARIZONA STATE UNIV	H BLODGET	GSFC	P CHRISTENSEN	NAS 5 31371	23
39	ARIZONA STATE UNIV	M WEI	GSFC	J R ARROWSMITH	NGT 5 30221	23
39	AUBURN UNIV	D DEERING	GSFC	K MCNABB	NCC 5 333	3
39	AUBURN UNIV	J R ARNOLD	MSFC	U HATCH	NCC 8 151	4
39	AUGUSTANA COLLEGE	N KHAZENIE	GSFC	V K OLNESS	NAG 5 6299	466
39	BOISE STATE UNIV	E ENGMAN	GSFC	P DAWSON	NAG 5 7537	199
39	BOSTON UNIV	C TUCKER	GSFC	R MYNENI	NAG 5 7472	278
39	BOSTON UNIV	D E WICKLAND	GSFC	M FRIEDL	NAG 5 7218	277
39	BOSTON UNIV	D E WICKLAND	GSFC	X LI	NAG 5 7217	277
39	BOSTON UNIV	D L WILLIAMS	GSFC	C WOODCOCK	NAG 5 3439	276
39	BOSTON UNIV	D WICKLAND	GSFC	C SCHAAF	NAG 5 11263	280
39	BOSTON UNIV	DODGE	GSFC	R MYNENI	NAG 5 9547	279
39	BOSTON UNIV	E T ENGMAN	GSFC	M A FRIEDL	NAG 5 8584	278
39	BOSTON UNIV	G C GUTMAN	GSFC	D K KAUFMANN	NAG 5 6214	277
39	BOSTON UNIV	G GUTMAN	GSFC	G SALVUCCI	NAG 5 11338	280
39	BOSTON UNIV	J PRIVETTE	GSFC	R MYNENI	NAG 5 8659	278
39	BOSTON UNIV	M WEI	GSFC	G SALVUCCI	NAG 5 6716	277
39	BOSTON UNIV	M WEI	GSFC	R MYNENI	NGT 5 30223	280
39	BOSTON UNIV	P R HOUSER	GSFC	G D SALVUCCI	NAG 5 8666	278
39	BOWIE STATE UNIV	E MIDDLETON	GSFC	W T LAWRENCE	NCC 5 507	240
39	BOWIE STATE UNIV	M L IMHOFF	GSFC	W LAWRENCE	NAG 5 6476	239
39	BOWIE STATE UNIV	M L IMHOFF	GSFC	W LAWRENCE	NAG 5 7669	239
39	BOWIE STATE UNIV	M L IMHOFF	GSFC	W LAWRENCE	NAG 5 10034	240
39	BOWLING GREEN STATE UNIV	T M SCOTT	GRC	D K VINCENT	NAG 3 2443	405
39	BRANDEIS UNIV	C W LLOYD	JSC	J R LACKNER	NAG 9 1263	281
39	BRIGHAM YOUNG UNIV	E LINDSTROM	GSFC	D LONG	NAG 5 8746	501
39	BRIGHAM YOUNG UNIV	J DODGE	GSFC	D LONG	NAG 5 9625	501
39	BROWN UNIV	A JANETOS	GSFC	J MUSTART	NAG 5 6003	457
39	BROWN UNIV	G GUTMAN	GSFC	J F MUSTARD	NAG 5 11145	459
39	BROWN UNIV	S G UNGAR	GSFC	J F MUSTARD	NCC 5 487	459
39	BUCKNELL UNIV	E T ENGMAN	GSFC	R D CRAGO	NAG 5 8679	435
39	BUCKNELL UNIV	E T ENGMAN	GSFC	R D CRAGO	NAG 5 8699	435
39	BUCKNELL UNIV	M F JASINSKI	GSFC	R D CRAGO	NAG 5 10129	436
39	CALIFORNIA INST OF TECH	D WICKLAND	GSFC	J RANDERSON	NAG 5 9462	46
39	CALIFORNIA INST OF TECH	M Y WEI	GSFC	B C MURRAY	NGT 5 30138	49
39	CALIFORNIA INST OF TECH	P DECOLA	GSFC	P WENNBERG	NAG 5 8922	45
39	CALIFORNIA INST OF TECH	P HOUSER	GSFC	Y L YUNG	NAG 5 9487	46

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39	CALIFORNIA STATE UNIV - LONG BEACH	A J TUYAHOV	GSFC	C T LEE	NAG 5 9310	51
39	CALIFORNIA STATE UNIV - LONG BEACH	B MEESON	GSFC	E AMBOS	NCC 5 329	51
39	CALIFORNIA STATE UNIV - LOS ANGELES	D E WICKLAND	GSFC	J A GAMON	NAG 5 7401	52
39	CALIFORNIA STATE UNIV - LOS ANGELES	H M ADELMAN	LARC	H HASEMIAN	NAG 1 2029	51
39	CALIFORNIA STATE UNIV - MONTEREY BAY	A JANETOS	GSFC	L PIERCE	NAG 5 6529	52
39	CALIFORNIA STATE UNIV - MONTEREY BAY	J C COUGHLAN	ARC	S E ALEXANDER	NCC 2 1186	52
39	CALIFORNIA STATE UNIV - MONTEREY BAY	R MCKELLIP	SSC	L F JOHNSON	NAG13 99020	52
39	CARNEGIE - MELLON UNIV	CFARMER	JSC	D HERSHBERGER	NAG 9 1242	438
39	CASE WESTERN RESERVE UNIV	W HVANCIC	GRC	J ISHAC	NAG 3 2391	406
39	CLARION UNIV OF PENNSYLVANIA	J F DOWDY	MSFC	A J VEGA	NAG 8 1312	440
39	CLARK UNIV	A JANETOS	GSFC	B TURNER	NAG 5 6046	281
39	CLARK UNIV	M WEI	GSFC	B L TURNER	NGT 5 97	281
39	CLARK UNIV	M WEI	GSFC	B L TURNER	NGT 5 30197	282
39	CLARK UNIV	M WEI	GSFC	B L TURNER	NGT 5 30217	282
39	CLARK UNIV	M Y WEI	GSFC	B L TUNNER	NGT 5 30153	281
39	CLARK UNIV	M Y WEI	GSFC	B L TURNER	NGT 5 30147	281
39	CLARK UNIV	M Y WEI	GSFC	J GEOGHEGAN	NAG 5 8559	281
39	CLARK UNIV	S S WEGENER	ARC	S HERWITZ	NCC 2 1270	281
39	COLLEGE OF SAN MATEO	N KHAZENIE	GSFC	K D KENNEDY	NAG 5 4883	53
39	COLORADO STATE UNIV	D E WICKLAND	GSFC	N HANAN	NAG 5 8705	120
39	COLORADO STATE UNIV	D W DEERING	GSFC	A DENNING	NCC 5 284	122
39	COLORADO STATE UNIV	D WICKLAND	HQ	W PARTON	NAG 5 4983	120
39	COLORADO STATE UNIV	G C GUTMAN	GSFC	D OJIMA	NAG 5 4646	120
39	COLORADO STATE UNIV	G GUTMAN	GSFC	D OJIMA	NAG 5 11073	121
39	COLORADO STATE UNIV	J C DODGE	GSFC	P L STEPHENS	NAG 5 6637	120
39	COLORADO STATE UNIV	J RANSON	GSFC	D OJIMA	NAG 5 6228	120
39	COLORADO STATE UNIV	M WEI	GSFC	R CONANT	NAG 5 10593	121
39	COLORADO STATE UNIV	M WEI	GSFC	S A RUTLEDGE	NGT 5 30218	122
39	COLORADO STATE UNIV	M WEI	GSFC	V CHANDRAEKAR	NGT 5 30421	122
39	COLORADO STATE UNIV	R H THOMAS	GSFC	D LISTON	NAG 5 4073	120
39	COLUMBIA UNIV	D E WICKLAND	GSFC	E MATTHEWS	NAG 5 6321	370
39	COLUMBIA UNIV	D KAHLE	GSFC	R MILLER	NAG 5 8808	372
39	COLUMBIA UNIV	D L PIERCE	GSFC	B CAIRNS	NAG 5 5275	370
39	COLUMBIA UNIV	D RIND	GSFC	M A CANE	NAG 5 7044	371
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39	COLUMBIA UNIV	E LINDSTROM	GSFC	R SEAGER	NAG 5 6315	370
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39	COLUMBIA UNIV	M WEI	GSFC	A SOBEL	NAG 5 10607	373
39	COLUMBIA UNIV	M WEI	GSFC	D L WITTER	NAG 5 8675	372
39	COLUMBIA UNIV	M WEI	GSFC	D MARTINSON	NGT 5 30391	375
39	COLUMBIA UNIV	M WEI	GSFC	M CANE	NGT 5 50323	375
39	COLUMBIA UNIV	M WEI	GSFC	W MENKE	NGT 5 30374	375
39	COLUMBIA UNIV	M WEI	GSFC	W MENKE	NGT 5 30388	375
39	COLUMBIA UNIV	M Y WEI	GSFC	T TAKAHASHI	NGT 5 30167	374
39	COLUMBIA UNIV	P R HOUSER	GSFC	M STIEGLITZ	NAG 5 9759	372
39	COLUMBIA UNIV	Q BARKER	GSFC	R S CHEN	NAS 5 98162	373
39	COLUMBIA UNIV	R H THOMAS	GSFC	D M HOLLAND	NAG 5 4028	369
39	COLUMBIA UNIV	R KOSTER	GSFC	M STIEGLITZ	NCC 5 218	373
39	COLUMBIA UNIV	R KOSTER	GSFC	M STIEGLITZ	NCC 5 510	374
39	COLUMBIA UNIV	S GOGINENI	GSFC	D G MARTINSON	NAG 5 6876	370
39	COLUMBIA UNIV	S GOGINENI	GSFC	D MARTINSON	NAG 5 7922	371
39	COLUMBIA UNIV	S GOGINENI	GSFC	S S JACOBS	NAG 5 7461	371
39	CORNELL UNIV	D DEERING	GSFC	E FERNANDES	NCC 5 298	381
39	CORNELL UNIV	J BOYCE	GSFC	R J SULLIVAN	NAG 5 9794	379
39	CORNELL UNIV	J CAMPBELL	GSFC	B MONGER	NAG 5 8188	378
39	CORNELL UNIV	J JODER	GSFC	G CHARLES	NAG 5 6273	377
39	CORNELL UNIV	J MARRA	GSFC	B MONGER	NAG 5 10848	379
39	CORNELL UNIV	M WEI	GSFC	L O HEDIN	NGT 5 30210	381
39	CORNELL UNIV	M Y WEI	GSFC	C H GREENE	NGT 5 50218	382
39	DARTMOUTH COLLEGE	P HOUSER	GSFC	R BRAKENRIDGE	NAG 5 9470	344
39	DREXEL UNIV	R MILLER	SSC	M PIASECKI	NAG13 00040	441
39	DUKE UNIV	A NURRIDIN	HQ	R T BARBER	NGT 5 50224	396

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39	DUKE UNIV	J MARRA	GSFC	R T BARBER	NAG 5 9348	395
39	DUKE UNIV	M S BURRELL	GSFC	B SCHEISINGER	NGT 5 69	395
39	DUKE UNIV	M WEI	GSFC	J REYNOLDS	NGT 5 30355	395
39	DUKE UNIV	P DECOLA	GSFC	P KASIBHATLA	NAG 5 9605	395
39	DUKE UNIV	R KNOX	GSFC	D L URBAN	NCC 5 233	395
39	ELIZABETH CITY STATE UNIV	B MEESON	GSFC	L HAYDEN	NAG 5 9371	396
39	ELIZABETH CITY STATE UNIV	N KHAZENIE	GSFC	L B HAYDEN	NAG 5 9372	396
39	FLA INTERNATIONAL UNIV	J W CAMPBELL	GSFC	L L RICHARDSON	NAG 5 8156	162
39	FLORIDA STATE UNIV	D E WICKLAND	GSFC	E A SMITH	NAG 5 7302	167
39	FLORIDA STATE UNIV	D E WICKLAND	GSFC	E A SMITH	NAG 5 9866	168
39	FLORIDA STATE UNIV	D W DEERING	GSFC	E A SMITH	NCC 5 292	168
39	FLORIDA STATE UNIV	D WICKLAND	GSFC	E SMITH	NAG 5 6258	167
39	FLORIDA STATE UNIV	E LINDSTROM	GSFC	J J O	NAG 5 8327	167
39	FLORIDA STATE UNIV	E T ENGMAN	GSFC	S E NICHOLSON	NAG 5 8598	167
39	FLORIDA STATE UNIV	J C DODGE	GSFC	E A SMITH	NAG 5 6665	167
39	FLORIDA STATE UNIV	M WEI	GSFC	S E NICHOLSON	NGT 5 30186	169
39	FLORIDA STATE UNIV	M WEI	GSFC	T KRISHNAMURTI	NGT 5 30191	169
39	FLORIDA STATE UNIV	M Y WEI	GSFC	D NOF	NGT 5 30164	169
39	FLORIDA STATE UNIV	M Y WEI	GSFC	J J OBRIEN	NGT 5 30158	169
39	FLORIDA STATE UNIV	W ESAIAS	GSFC	W DEWAR	NAG 5 7630	167
39	FORT HAYS STATE UNIV	E LINDSTROM	GSFC	J HEINRICHS	NAG 5 8633	227
39	GEORGE MASON UNIV	A T CHANG	GSFC	L CHIU	NAG 5 10879	510
39	GEORGE MASON UNIV	A T CHANG	GSFC	L CHIU	NAG 5 11346	510
39	GEORGE MASON UNIV	A T CHANG	GSFC	L S CHIU	NAG 5 9035	509
39	GEORGE MASON UNIV	J A WEINMAN	GSFC	L CHIU	NAG 5 9636	509
39	GEORGE MASON UNIV	W GRAHAM	SSC	M KAFATOS	NAG13 01009	510
39	GEORGE WASHINGTON UNIV	J GASCH	GSFC	D WILLIAMSON	NAG 5 3957	152
39	GEORGIA INST OF TECH	A J TUYAHOV	GSFC	W L CHAMEIDES	NAG 5 3855	183
39	GEORGIA INST OF TECH	A J TUYAHOV	GSFC	W L CHAMEIDES	NAG 5 9868	184
39	GEORGIA INST OF TECH	E T ENGMAN	GSFC	C D PETERS-LIDARD	NAG 5 8698	184
39	GEORGIA INST OF TECH	M KURYLO	GSFC	P H WINE	NAG 5 8931	184
39	GEORGIA INST OF TECH	M WEI	GSFC	W L CHAMEIDES	NGT 5 50330	188
39	GEORGIA INST OF TECH	M Y WEI	GSFC	R E DICKINSON	NAG 5 8880	184
39	GEORGIA INST OF TECH	P DECOLA	GSFC	F EISELE	NAG 5 8891	184
39	GEORGIA INST OF TECH	R TRAVIS	SSC	K MAXWELL	NGT13 52742	188
39	HARVARD UNIV	D E WICKLAND	GSFC	S C WORSY	NAG 5 7534	284
39	HARVARD UNIV	D W DEERING	GSFC	S C WOFYSY	NCC 5 341	285
39	HARVARD UNIV	M WEI	GSFC	J ANDERSON	NGT 5 30336	286
39	HARVARD UNIV	M WEI	GSFC	S C WOFYSY	NGT 5 30205	286
39	HARVARD UNIV	M Y WEI	GSFC	R FORMAN	NGT 5 30144	286
39	HARVARD UNIV	M Y WEI	GSFC	S C WOFYSY	NGT 5 30152	286
39	HARVARD UNIV	P DECOLA	GSFC	D J JACOB	NAG 5 9643	284
39	HARVARD UNIV	R CURRAN	GSFC	J ANDERSON	NAG 5 8779	284
39	HOFSTRA UNIV	E J LINDSTROM	GSFC	D E WEISSMAN	NAG 5 7503	382
39	IDAHO STATE UNIV	W TURNER	GSFC	K T WEBER	NAG 5 10982	199
39	ILLINOIS STATE UNIV	J F DOWNDY	MSFC	D HOLLAND	NAG 8 1262	200
39	INDIANA UNIV - BLOOMINGTON	D DEERING	GSFC	E MORAN	NCC 5 334	216
39	INDIANA UNIV - BLOOMINGTON	G GUTMAN	GSFC	E F MORAN	NAG 5 9852	215
39	IOWA STATE UNIV	E K GIBSON	JSC	P A BAZLINSKI	NAG 9 1115	223
39	IOWA STATE UNIV	M WEI	GSFC	T CHEN	NGT 5 30419	224
39	JOHNS HOPKINS UNIV	E LINDSTROM	GSFC	K RANEY	NAG 5 9113	246
39	JOHNS HOPKINS UNIV	K H BERGMAN	GSFC	M B PARLANGE	NAG 5 9426	246
39	JOHNS HOPKINS UNIV	M WEI	GSFC	D WAUGH	NGT 5 50328	253
39	JOHNS HOPKINS UNIV	P E HUNTER	GSFC	A SZALAY	NAG 5 8590	245
39	JOHNS HOPKINS UNIV	S GOGINENI	GSFC	B L GOTWOLS	NAG 5 8007	244
39	KANSAS STATE UNIV	A JANETOS	GSFC	D JOHNSON	NAG 5 6213	228
39	KANSAS STATE UNIV	G GUTMAN	GSFC	L JOHNSON	NAG 5 11337	228
39	KENT STATE UNIV	M WEI	GSFC	D L WITTER	NAG 5 11266	413
39	KENT STATE UNIV	T SCOTT	GRC	D MUNRO-STASIUK	NAG 3 2416	412
39	LAC COURTE OREILLES OJIBWA COMM COL	A F HEPP	GRC	D H ANDERSON	NAG 3 2293	546
39	LOUISIANA STATE UNIV - BATON ROUGE	C E HALL	MSFC	J ZHU	NCC 8 201	235
39	LOUISIANA STATE UNIV - BATON ROUGE	R TRAVIS	SSC	B S GOODWIN	NGT13 52743	235
39	MASSACHUSETTS INST OF TECH	E J LINSTROM	GSFC	B HAGER	NAG 5 6352	291
39	MASSACHUSETTS INST OF TECH	E LINDSTROM	GSFC	C WUNSCH	NAG 5 7857	292
39	MASSACHUSETTS INST OF TECH	E LINDSTROM	GSFC	P RIZZOLI	NAG 5 7194	291

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39	MASSACHUSETTS INST OF TECH	E T ENGMAN	GSFC	D MCLAUGHLIN	NCC 5 416	299
39	MASSACHUSETTS INST OF TECH	E T ENGMAN	GSFC	E B ELTAHIR	NAG 5 8617	293
39	MASSACHUSETTS INST OF TECH	J MARRA	GSFC	J MARSHALL	NCC 5 244	299
39	MASSACHUSETTS INST OF TECH	M WEI	GSFC	B TROUT	NGT 5 30334	299
39	MASSACHUSETTS INST OF TECH	M WEI	GSFC	C WUNSCH	NGT 5 30337	299
39	MASSACHUSETTS INST OF TECH	M WEI	GSFC	D ENTEKHABI	NGT 5 30190	299
39	MASSACHUSETTS INST OF TECH	M WEI	GSFC	E ELTAHIR	NAG 5 7525	292
39	MASSACHUSETTS INST OF TECH	M WEI	GSFC	J MARSHALL	NGT 5 30189	299
39	MASSACHUSETTS INST OF TECH	M WEI	GSFC	K X WHIPPLE	NGT 5 30188	299
39	MASSACHUSETTS INST OF TECH	M WEI	GSFC	R A PLUMB	NGT 5 30200	299
39	MASSACHUSETTS INST OF TECH	M WEI	GSFC	R BRAS	NGT 5 30339	299
39	MASSACHUSETTS INST OF TECH	M WEI	GSFC	R L BRAS	NGT 5 30212	299
39	MASSACHUSETTS INST OF TECH	P DECOLA	GSFC	M MOLINA	NAG 5 8887	293
39	MIAMI UNIV	T M SCOTT	GRC	J MILLARD	NAG 3 2436	413
39	MICHIGAN STATE UNIV	A C JANETOS	GSFC	J LIU	NAG 5 8317	307
39	MICHIGAN STATE UNIV	A JANETOS	GSFC	D SKOLE	NAG 5 6538	307
39	MICHIGAN STATE UNIV	A JOYCE	SSC	P SORRANO	NGT13 52715	308
39	MICHIGAN STATE UNIV	D DEERING	GSFC	D SKOLE	NCC 5 291	308
39	MICHIGAN STATE UNIV	D WILLIAMS	GSFC	D SKOLE	NAG 5 4810	307
39	MICHIGAN STATE UNIV	G GUTMAN	GSFC	R WALKER	NAG 5 9232	307
39	MICHIGAN STATE UNIV	G GUTMAN	HQ	J QI	NAG 5 9286	307
39	MICHIGAN STATE UNIV	M WEI	GSFC	D J CAMPBELL	NGT 5 30340	308
39	MICHIGAN STATE UNIV	M Y WEI	GSFC	J LIU	NGT 5 30166	308
39	MICHIGAN TECHNOLOGICAL UNIV	M Y WEI	GSFC	G BLUTH	NGT 5 30154	309
39	MICHIGAN TECHNOLOGICAL UNIV	S GOGINENI	GSFC	D PILANT	NAG 5 7051	309
39	MISSISSIPPI STATE UNIV	R MCKELLIP	SSC	S ROBERTS	NAG13 99018	328
39	MONTANA STATE UNIV	A C JANETOS	GSFC	A HASEN	NAG 5 6005	337
39	MONTANA STATE UNIV	G GUTMAN	GSFC	A HANSEN	NAG 5 9300	337
39	MONTANA STATE UNIV	G GUTMAN	GSFC	A HANSEN	NAG 5 9806	337
39	MONTANA STATE UNIV	G GUTMAN	GSFC	A HANSEN	NAG 5 11158	337
39	MONTANA TECH OF THE U OF MONTANA	N KHAZENIE	GSFC	T MOON	NAG 5 9139	338
39	MT HOLYOKE COLLEGE	M Y WEI	GSFC	J L BUBIER	NAG 5 8635	300
39	NEW MEXICO HIGHLANDS UNIV	K KRISHEN	JSC	J CAIBACA	NAG 9 1374	361
39	NEW MEXICO HIGHLANDS UNIV	L M ARMEDARIZ	JSC	J C	NAG 9 1139	361
39	NEW MEXICO INST OF MINING & TECH	D WICKLAND	GSFC	E E SMALL	NAG 5 9328	361
39	NEW MEXICO INST OF MINING & TECH	F K GIBSON	JSC	T L KIEFT	NAG 9 1106	361
39	NEW MEXICO STATE UNIV - LAS CRUCES	C E WADE	ARC	E E SERRANO	NAG 2 1334	362
39	NY UNIV	M REINECKER	GSFC	R KLEEMAN	NAG 5 9871	383
39	NY UNIV	S GOGINENI	GSFC	D M HOLLAND	NAG 5 8475	383
39	NORFOLK STATE UNIV	N KHAZENIE	GSFC	W J RODRIGUEZ	NAG 5 6298	514
39	NORFOLK STATE UNIV	N KHAZENIE	GSFC	W J RODRIQUEZ	NAG 5 9374	514
39	NORTH CAROLINA STATE UNIV	J CAMPBELL	GSFC	J MORRISON	NAG 5 6520	400
39	NORTH CAROLINA STATE UNIV	J MARRA	GSFC	J MORRISON	NAG 5 8865	400
39	NORTH CAROLINA STATE UNIV	M WEI	GSFC	J M MORRISON	NGT 5 30192	402
39	OHIO STATE UNIV	D L WILLIAMS	GSFC	C MERRY	NAG 5 7685	415
39	OHIO STATE UNIV	E J LINDSTROM	GSFC	C K SHUM	NAG 5 7284	415
39	OHIO STATE UNIV	E LIDSTROM	GSFC	K N BERLINER	NAG 5 8455	416
39	OHIO STATE UNIV	E LINDSTROM	GSFC	C DER VEEN	NAG 5 8632	416
39	OHIO STATE UNIV	E LINDSTROM	GSFC	C K SHUM	NAG 5 6700	415
39	OHIO STATE UNIV	E LINDSTROM	GSFC	G S HAMILTON	NAG 5 6838	415
39	OHIO STATE UNIV	E LINDSTROM	GSFC	K C JEZEK	NAG 5 8608	416
39	OHIO STATE UNIV	G ASRAR	GSFC	L G THOMPSON	NGT 5 30012	418
39	OHIO STATE UNIV	J DODGE	GSFC	K JEZEK	NAG 5 9538	416
39	OHIO STATE UNIV	K PARTINGTON	GSFC	C K SHUM	NAG 5 9335	416
39	OHIO STATE UNIV	M WEI	GSFC	L BROWN	NGT 5 30042	418
39	OHIO STATE UNIV	P HOUSER	GSFC	D BROMWICH	NAG 5 9596	416
39	OHIO STATE UNIV	R KAKAR	GSFC	D BROMWICH	NAG 5 9518	416
39	OHIO STATE UNIV	S GOGINENI	GSFC	D H BROMWICH	NAG 5 7750	415
39	OHIO STATE UNIV	S GOGINENI	GSFC	E S MOSLEY-THOMPSON	NAG 5 6817	415
39	OHIO STATE UNIV	S GOGINENI	GSFC	K C JEZEK	NAG 5 6818	415
39	OHIO STATE UNIV	S GOGINENI	GSFC	K C JEZEK	NAG 5 7286	415
39	OHIO STATE UNIV	S GOGINENI	GSFC	R R FORSTER	NAG 5 7848	415
39	OHIO STATE UNIV	S GOGINENI	HQ	D BROMWICH	NAG 5 6001	415
39	OHIO STATE UNIV	T M SCOTT	GRC	D L MORRISON	NAG 3 2412	414
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39	OLD DOMINION UNIV	N KHAZENIE	GSFC	E SMITH	NAG 5 4515	518
39	OREGON STATE UNIV	D E WICKLAND	GSFC	B LAW	NAG 5 7551	432
39	OREGON STATE UNIV	D E WICKLAND	GSFC	L MAHRT	NAG 5 7416	431
39	OREGON STATE UNIV	D E WICKLAND	GSFC	M H UNSWORTH	NAG 5 7531	432
39	OREGON STATE UNIV	D E WICKLAND	GSFC	R H WARING	NAG 5 7506	432
39	OREGON STATE UNIV	D E WICKLAND	GSFC	W B COHEN	NAG 5 7856	432
39	OREGON STATE UNIV	D WICKLAND	HQ	B E LAW	NAG 5 8315	432
39	OREGON STATE UNIV	E T ENGMAN	GSFC	L MAHRT	NAG 5 8601	432
39	OREGON STATE UNIV	G C GUTMAN	GSFC	D E HARMON	NAG 5 6242	431
39	OREGON STATE UNIV	G GUTMAN	GSFC	O KRANKINA	NAG 5 11250	433
39	OREGON STATE UNIV	G GUTMAN	GSFC	O N KRANKINA	NAG 5 9677	432
39	OREGON STATE UNIV	J C DODGE	GSFC	D FREILICH	NAG 5 6642	431
39	OREGON STATE UNIV	J CAMPBELL	GSFC	J R ZANEVELD	NAG 5 6647	431
39	OREGON STATE UNIV	J CAMPBELL	GSFC	K SHIFRIN	NAG 5 6530	431
39	OREGON STATE UNIV	J DODGE	GSFC	M R ABBOTT	NAG 5 8969	432
39	OREGON STATE UNIV	J MARRA	GSFC	M R ABBOTT	NAG 5 11125	433
39	OREGON STATE UNIV	M WEI	GSFC	B MATE	NGT 5 30185	434
39	OREGON STATE UNIV	M WEI	GSFC	R P DICK	NGT 5 96	434
39	OREGON STATE UNIV	M WEI	GSFC	W B COHEN	NGT 5 30214	434
39	PENN STATE UNIV	D L WILLIAMS	GSFC	W L MYERS	NAG 5 10541	448
39	PENN STATE UNIV	D WILLIAMS	GSFC	W MEYERS	NAG 5 6713	445
39	PENN STATE UNIV	E ENGMAN	GSFC	K DAVIS	NAG 5 10050	448
39	PENN STATE UNIV	E T ENGMAN	GSFC	D MILLER	NAG 5 8738	446
39	PENN STATE UNIV	J A MARRA	GSFC	R NAJJAR	NAG 5 6389	445
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39	PENN STATE UNIV	M J IMHOFF	GSFC	G W PETERSEN	NAG 5 3856	444
39	PENN STATE UNIV	M WEI	GSFC	D PEUQUET	NGT 5 30224	451
39	PENN STATE UNIV	M WEI	GSFC	E J BARRON	NAG 5 4553	444
39	PENN STATE UNIV	M WEI	GSFC	G JENKINS	NGT 5 30420	451
39	PENN STATE UNIV	M WEI	GSFC	J VERLINDE	NGT 5 30208	451
39	PENN STATE UNIV	M WEI	GSFC	S BRANTLEY	NGT 5 30193	451
39	PENN STATE UNIV	M WEI	HQ	BRUNES	NGT 5 30139	451
39	PENN STATE UNIV	M Y WEI	GSFC	A P BARROS	NAG 5 6656	445
39	PENN STATE UNIV	M Y WEI	GSFC	R B ALLEY	NGT 5 30171	451
39	PENN STATE UNIV	P R HOUSER	GSFC	D R STAUFFER	NAG 5 8735	446
39	PENN STATE UNIV	S GOGINENI	GSFC	R ALLEY	NAG 5 7776	446
39	PORTLAND STATE UNIV	J F DOWDY	MSFC	A M FRASER	NAG 8 1283	434
39	PRAIRIE VIEW A&M UNIV	M WEI	GSFC	S H SHAKIR	NAG 5 6823	475
39	PRINCETON UNIV	D E WICKLAND	GSFC	E F WOOD	NAG 5 7297	353
39	PRINCETON UNIV	G ASRAR	GSFC	J L SARMIENTO	NAG 5 6591	352
39	PRINCETON UNIV	J DODGE	GSFC	E WOOD	NAG 5 6494	352
39	PRINCETON UNIV	J DODGE	GSFC	E WOOD	NAG 5 9414	353
39	PRINCETON UNIV	J DODGE	GSFC	E WOOD	NAG 5 9635	354
39	PRINCETON UNIV	M WEI	GSFC	A DOBSON	NGT 5 30341	355
39	PRINCETON UNIV	M WEI	GSFC	E F WOOD	NGT 5 50333	355
39	PRINCETON UNIV	M WEI	GSFC	G PHILANDER	NGT 5 30333	355
39	PRINCETON UNIV	M WEI	GSFC	J SARMIENTO	NGT 5 30356	355
39	PRINCETON UNIV	M WEI	GSFC	L RUSSELL	NAG 5 8676	353
39	PRINCETON UNIV	M Y WEI	GSFC	G PHILANDER	NGT 5 30134	355
39	PRINCETON UNIV	M Y WEI	GSFC	H LEVY	NGT 5 30137	355
39	PRINCETON UNIV	M Y WEI	GSFC	I M HELD	NGT 5 30156	355
39	PRINCETON UNIV	P DECOLA	GSFC	D L MAUZERALL	NAG 5 9810	354
39	PRINCETON UNIV	P HOUSER	GSFC	E WOOD	NAG 5 9486	353
39	PURDUE UNIV	A TUYAHOV	GSFC	B A ENGEL	NAG 5 7954	218
39	PURDUE UNIV	D E WICKLAND	GSFC	C E BRODLEY	NAG 5 6971	218
39	PURDUE UNIV	M Y WEI	GSFC	P B SHEPSON	NGT 5 30163	220
39	PURDUE UNIV	R MCKELLIP	SSC	C J JOHANNSEN	NAG13 00001	219
39	PURDUE UNIV	T BENCIC	GRC	D A LANGREBE	NAG 5 3975	217
39	ROCHESTER INST OF TECH	B L MARKHAM	GSFC	J SCHOTT	NAG 5 11298	386
39	ROCHESTER INST OF TECH	D L WILLIAMS	GSFC	J SCHOTT	NAG 5 3443	386
39	ROCHESTER INST OF TECH	T D GUBBELS	GSFC	A VODECEK	NAG 5 10051	386
39	RUTGERS ST UNIV N	E LINSTROM	GSFC	D HAIDVOGEL	NAG 5 9847	358
39	RUTGERS ST UNIV N	E T ENGMAN	GSFC	R AVISSAR	NAG 5 8213	357
39	RUTGERS ST UNIV N	J CAMPBELL	GSFC	M J BEHRENFELD	NAG 5 7437	357

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39	RUTGERS ST UNIV N	J MARRA	GSFC	P G FALKONSKI	NAG 5 11345	358
39	RUTGERS ST UNIV N	J MARRA	GSFC	Y GAO	NAG 5 9340	357
39	RUTGERS ST UNIV N	J W CAMPBELL	GSFC	P G FALKOWSKI	NAG 5 6982	357
39	RUTGERS ST UNIV N	P R HOUSER	GSFC	R AVISSAR	NAG 5 9746	357
39	RUTGERS STATE UNIV OF NJ COOK CAMP	K BERGMAN	GSFC	R AVISSAR	NAG 5 9359	359
39	RUTGERS STATE UNIV OF NJ NEW BRUNS	J MARRA	GSFC	P G FALKOWSKI	NAG 5 11356	359
39	SALISH KOOTENAI COLLEGE	B MEESON	GSFC	J M GOBERT	NAG 5 9368	338
39	SALISH KOOTENAI COLLEGE	N K HAZENIE	GSFC	T S OLSON	NAG 5 9102	338
39	SAN DIEGO STATE UNIV	G GUTMAN	GSFC	A HOPE	NAG 5 11141	54
39	SAN DIEGO STATE UNIV	G GUTMAN	GSFC	J FRANKLIN	NAG 5 9301	54
39	SAN DIEGO STATE UNIV	M WEI	GSFC	A S HOPE	NGT 5 30335	54
39	SAN DIEGO STATE UNIV	M Y WEI	GSFC	R MELLORS	NAG 5 8560	54
39	SAN DIEGO STATE UNIV	R MCKELLIP	JSC	D STOW	NAG13 99017	54
39	SAN FRANCISCO STATE UNIV	J W CAMPBELL	GSFC	D H ROBINSON	NAG 5 8013	55
39	SAN FRANCISCO STATE UNIV	J W MARRA	GSFC	D H ROBINSON	NAG 5 7511	55
39	SAN JOSE STATE UNIV	V VANDERBILT	ARC	P A HAMILL	NCC 2 1132	57
39	SOUTH DAKOTA SCH OF MINES & TECH	J ARNOLD	MSFC	S O FAREWELL	NAG 8 1447	466
39	SOUTH DAKOTA SCH OF MINES & TECH	M WEI	GSFC	P R ZIMMERMAN	NGT 5 30402	467
39	SOUTH DAKOTA SCH OF MINES & TECH	N KHAZENIE	GSFC	L A VIERLING	NAG 5 8973	466
39	SOUTH DAKOTA SCH OF MINES & TECH	R MCKELLIP	JSC	M PRICE	NAG13 99021	466
39	SOUTH DAKOTA STATE UNIV	B L MARKHAM	GSFC	D HELDER	NAG 5 11351	467
39	SOUTH DAKOTA STATE UNIV	D L WILLIAMS	GSFC	HELDER	NAG 5 3445	467
39	SOUTH DAKOTA STATE UNIV	DL WILLIAMS	GSFC	D HELDER	NAG 5 3540	467
39	SOUTH DAKOTA STATE UNIV	S UNGAR	GSFC	D HELDER	NCC 5 472	467
39	SOUTHERN ILLINOIS UNIV - CARBONDALE	M WEI	GSFC	N PINTER	NGT 5 50321	204
39	ST UN NY COL-ENV SCI & FORESTRY	N SOVIK	SSC	P HOPKINS	NCC13 98001	386
39	STANFORD UNIV	A KELLEY	MSFC	F CHANG	NCC 8 197	66
39	STANFORD UNIV	D E WICKLAND	GSFC	H A MOONEY	NAG 5 9862	62
39	STANFORD UNIV	J MARRA	GSFC	K ARRIGO	NAG 5 8866	62
39	STANFORD UNIV	M L IMHOFF	GSFC	M L IMHOFF	NAG 5 8563	61
39	STANFORD UNIV	M L IMHOFF	GSFC	P EHRlich	NAG 5 9760	62
39	STANFORD UNIV	M WEI	GSFC	G W ERNST	NGT 5 30360	66
39	STANFORD UNIV	M WEI	GSFC	H ZEBKER	NGT 5 30342	66
39	STANFORD UNIV	M WEI	GSFC	M Z JACOBSON	NAG 5 8645	61
39	STANFORD UNIV	M WEI	GSFC	P M VITOUSEK	NGT 5 30216	66
39	STANFORD UNIV	M WEI	GSFC	P MATSON	NGT 5 30204	66
39	STANFORD UNIV	M Y WEI	GSFC	K SETO	NAG 5 10534	63
39	STANFORD UNIV	R H THOMAS	GSFC	D ZEBKER	NAG 5 3732	60
39	STANFORD UNIV	W ABDALATI	GSFC	H ZEBKER	NAG 5 9853	62
39	ST UN NY COL-ENV SCI & FORESTRY	N SOVIK	SSC	P HOPKINS	NAG13 01003	386
39	STATE UNIV OF NY - ALBANY	A J TUYAHOV	GSFC	P F HOPKINS	NAG 5 9676	387
39	STATE UNIV OF NY - ALBANY	D W DEERING	GSFC	D R FRITZJARRALD	NCC 5 283	387
39	STATE UNIV OF NY - BUFFALO	M BECKER	GSFC	M BECKER	NAG 5 10608	388
39	STATE UNIV OF NY - STONY BROOK	B CARLSON	GSFC	GELLER	NCC 5 126	391
39	STATE UNIV OF NY - STONY BROOK	D WICKLAND	GSFC	M LERDAU	NAG 5 6601	389
39	STATE UNIV OF NY - STONY BROOK	M WEI	GSFC	D WALISER	NGT 5 50322	391
39	STATE UNIV OF NY - STONY BROOK	N AVAILABLE	LARC	N AVAILABLE	NAS 1 96006	391
39	STATE UNIV OF NY - STONY BROOK	P DECOLA	GSFC	M A GELLER	NAG 5 9786	390
39	TEXAS A&M UNIV	D K HALL	GSFC	A KLEIN	NAG 5 9455	481
39	TEXAS A&M UNIV	D K HALL	GSFC	A KLEIN	NAG 5 10877	482
39	TEXAS A&M UNIV	G GUTMAN	GSFC	R LACEY	NAG 5 11144	482
39	TEXAS A&M UNIV	J CAMPBELL	GSFC	W D NOWLIN	NAG 5 6446	481
39	TEXAS A&M UNIV	K BERGMAN	GSFC	P CHANG	NAG 5 9409	481
39	TEXAS A&M UNIV	M WEI	GSFC	C MUNSTER	NGT 5 30408	484
39	TEXAS A&M UNIV	M WEI	GSFC	T BOUTTON	NGT 5 30211	484
39	TEXAS A&M UNIV	M Y WEI	GSFC	R ZHANG	NAG 5 8706	481
39	TEXAS A&M UNIV	S GOGINENI	GSFC	A STOESSEL	NAG 5 7751	481
39	THE SCRIPPS REASERCH INST	F E HOGE	GSFC	M VERNET	NAG 5 5191	67
39	THE SCRIPPS REASERCH INST	J DODGE	GSFC	J J SIMPSON	NAG 5 9604	67
39	THE UNIV OF CENTRAL FLORIDA	J W QUINN	KSC	D R REINHART	NAG10 301	170
39	THE UNIV OF CENTRAL FLORIDA	M COLLINS	KSC	D C COOPER	NCC10 35	170
39	TULANE UNIV	R TRAVIS	JSC	B MCKEE	NGT13 52722	237
39	TULANE UNIV	R TRAVIS	SSC	J CORBINO	NGT13 52745	237
39	U OF MD CTR FOR ENV SCI-CAMBRIDGE	A C JANETOS	GSFC	P R FISHER	NAG 5 6249	254

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39	U OF MD CTR FOR ENV SCI-CAMBRIDGE	G GUTMAN	GSFC	T FISHER	NAG 5 11083	255
39	U OF MD CTR FOR ENV SCI-CAMBRIDGE	J HARDING	GSFC	L HARDING	NAG 5 6286	254
39	U OF MD CTR FOR ENV SCI-CAMBRIDGE	J MARRA	GSFC	R G HOOD	NAG 5 6387	254
39	U OF MD CTR FOR ENV SCI-CAMBRIDGE	J MARRA	GSFC	T MALONE	NAG 5 9527	254
39	U OF MD CTR FOR ENV SCI-CAMBRIDGE	J W CAMPBELL	GSFC	L W HARDING	NAG 5 7602	254
39	U OF MD CTR FOR ENV SCI-CAMBRIDGE	J W CAMPBELL	GSFC	T C MALONE	NAG 5 7455	254
39	U OF MD CTR FOR ENV SCI-CAMBRIDGE	S G UNGAR	GSFC	P A TOWNSEND	NCC 5 493	255
39	UNIV HOUSTON-HOUSTON	E K GIBSON	JSC	H S CHAFETZ	NAG 9 1103	487
39	UNIV OF MINN	D E WICKLAND	GSFC	P B REICH	NAG 5 7917	322
39	UNIV OF MINN	G GUTMAN	GSFC	J PASTOR	NAG 5 9312	323
39	UNIV OF MINN	G GUTMAN	GSFC	P BOLSTAD	NAG 5 11130	323
39	UNIV OF MINN	M KURYLO	GSFC	R W CARR	NAG 5 8869	322
39	UNIV OF MINN	M Y WEI	GSFC	E FOUFOULA-GEORGI	NAG 5 6191	322
39	UNIV OF MINN	M Y WEI	GSFC	S HOBBIE	NGT 5 30111	325
39	UNIV OF MINN	R MCKELLIP	SSC	M BAUER	NAG13 99022	324
39	UNIV OF MINN	T M SANDERS	GRC	D H PUI	NAG 3 2187	321
39	UNIV	S G UNGAR	GSFC	K C MCGWIRE	NCC 5 486	342
39	UNIV	S GOGINENI	GSFC	G L DANA	NAG 5 7870	341
39	UNIV OF AKRON	T M SCOTT	GRC	D SIEBERT	NAG 3 2444	420
39	UNIV OF ALABAMA - BIRMINGHAM	E PAYLOR	GSFC	L DELUCAS	NAG 5 8786	6
39	UNIV OF ALABAMA - BIRMINGHAM	E PAYLOR	GSFC	L DELUCAS	NAG 5 11267	6
39	UNIV OF ALABAMA - HUNTSVILLE	D L PIERCE	GSFC	J DIMMOCK	NAG 5 5273	7
39	UNIV OF ALABAMA - HUNTSVILLE	M Y WEI	GSFC	D M WELCH	NGT 5 30168	14
39	UNIV OF ALABAMA - HUNTSVILLE	R GREENWOOD	MSFC	R MCNIDER	NCC 8 141	13
39	UNIV OF ALABAMA - HUNTSVILLE	R J OLIVERSEN	GSFC	W PACIESAS	NAG 5 9045	9
39	UNIV OF ALABAMA - HUNTSVILLE	S GOGINENI	GSFC	R T MCNIDER	NAG 5 7844	8
39	UNIV OF ALABAMA - HUNTSVILLE	T BRAKE	GSFC	R WELCH	NAS 5 31718	12
39	UNIV OF ALASKA - FAIRBANKS	A JANETOS	GSFC	D MCGUIRE	NAG 5 6275	17
39	UNIV OF ALASKA - FAIRBANKS	D E WICKLAND	GSFC	A D MCGUIRE	NAG 5 9859	18
39	UNIV OF ALASKA - FAIRBANKS	D WICKLAND	GSFC	C L WILLIAMS	NAG 5 7507	17
39	UNIV OF ALASKA - FAIRBANKS	E LINDSTROM	GSFC	L MCNUTT	NAG 5 9915	18
39	UNIV OF ALASKA - FAIRBANKS	E LINDSTROM	GSFC	S R OKKONEN	NAG 5 7603	17
39	UNIV OF ALASKA - FAIRBANKS	E T ENGMAN	GSFC	S LI	NAG 5 8614	18
39	UNIV OF ALASKA - FAIRBANKS	G GUTMAN	GSFC	C WILLIAMS	NAG 5 9315	18
39	UNIV OF ALASKA - FAIRBANKS	G GUTMAN	GSFC	D MCGUIRE	NAG 5 11142	18
39	UNIV OF ALASKA - FAIRBANKS	M WEI	GSFC	S F CHAPIN	NGT 5 50324	19
39	UNIV OF ALASKA - FAIRBANKS	P J ONDRUS	GSFC	N AVAILBLE	NAS 5 98129	18
39	UNIV OF ALASKA - FAIRBANKS	R H THOMAS	GSFC	D JEFFRIES	NAG 5 4170	16
39	UNIV OF ALASKA - FAIRBANKS	S GOGINENI	GSFC	M O JEFFRIES	NAG 5 7299	17
39	UNIV OF ALASKA - FAIRBANKS	S H GOGINENI	GSFC	C LINGLE	NAG 5 4068	16
39	UNIV OF ALASKA - FAIRBANKS	S K HALL	GSFC	C S BENSON	NCC 5 379	19
39	UNIV OF ARIZONA	A TUYAHOV	GSFC	C F HUTCHINSON	NAG 5 9174	31
39	UNIV OF ARIZONA	A TUYAHOV	GSFC	D YOUNG	NAG 5 8157	30
39	UNIV OF ARIZONA	A TUYAHOV	GSFC	S E MARSH	NAG 5 8341	30
39	UNIV OF ARIZONA	B L MARKHAM	GSFC	K THOME	NAG 5 11339	36
39	UNIV OF ARIZONA	D L WILLIAMS	GSFC	C J THOME	NAG 5 3436	26
39	UNIV OF ARIZONA	D W DEERING	GSFC	A R HUETE	NAG 5 11316	36
39	UNIV OF ARIZONA	E T ENGMAN	GSFC	J W SHUTTLEWORTH	NAG 5 8214	30
39	UNIV OF ARIZONA	E WOOD	GSFC	S SOROOSHIAN	NAG 5 8503	30
39	UNIV OF ARIZONA	E Y WOOD	GSFC	S SOROOSHAIN	NAG 5 3640	26
39	UNIV OF ARIZONA	J PRIVETTE	GSFC	A HAUTE	NAG 5 8660	30
39	UNIV OF ARIZONA	M WEI	GSFC	M W WALLENDORF	NAG 5 10007	33
39	UNIV OF ARIZONA	M WEI	GSFC	R E DICKSON	NGT 5 30013	39
39	UNIV OF ARIZONA	M Y WEI	GSFC	C E GLASS	NGT 5 30148	39
39	UNIV OF ARIZONA	M Y WEI	GSFC	C HUTCHINSON	NGT 5 30140	39
39	UNIV OF ARIZONA	P R HOUSER	GSFC	W SHUTTLEWORTH	NAG 5 9796	33
39	UNIV OF ARIZONA	R H THOMAS	GSFC	V R BAKER	NAG 5 4124	26
39	UNIV OF ARIZONA	R SCHIEFFER	GSFC	S ROROOSHIAN	NAG 5 8502	30
39	UNIV OF ARIZONA	S G UNGAR	GSFC	S F BIGGAR	NCC 5 460	39
39	UNIV OF ARIZONA	S G UNGER	GSFC	A R HUETE	NCC 5 478	39
39	UNIV OF ARIZONA	S GOGINENI	GSFC	R BALES	NAG 5 6779	28
39	UNIV OF ARK MAIN CAMP - FAYETTEVILLE	J BOYCE	GSFC	P BENOIT	NAG 5 9496	41
39	UNIV OF CALIFORNIA - BERKELEY		GSFC	K BOERING	NGT 5 30424	78
39	UNIV OF CALIFORNIA - BERKELEY	A NURRIDIN	HQ	O E GRANGER	NGT 5 50223	79
39	UNIV OF CALIFORNIA - BERKELEY	D E WICKLAND	GSFC	D BALDOCCHI	NAG 5 8510	72
39	UNIV OF CALIFORNIA - BERKELEY	D E WICKLAND	GSFC	W SILVER	NCC 5 352	77

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39	UNIV OF CALIFORNIA - BERKELEY	G ASRAR	GSFC	D G AMUNDSON	NGT 5 30044	77
39	UNIV OF CALIFORNIA - BERKELEY	G GUTMAN	GSFC	P GONG	NAG 5 9231	73
39	UNIV OF CALIFORNIA - BERKELEY	M WEI	GSFC	D M KAMMEN	NGT 5 30361	78
39	UNIV OF CALIFORNIA - BERKELEY	M WEI	GSFC	I CHAPELA	NGT 5 30351	78
39	UNIV OF CALIFORNIA - BERKELEY	M WEI	GSFC	R C COHEN	NGT 5 30219	78
39	UNIV OF CALIFORNIA - BERKELEY	M WEI	GSFC	T L BENNING	NGT 5 30183	78
39	UNIV OF CALIFORNIA - BERKELEY	M WEI	GSFC	W SILVER	NGT 5 50331	79
39	UNIV OF CALIFORNIA - BERKELEY	M Y WEI	GSFC	F S CHAPIN	NGT 5 50216	79
39	UNIV OF CALIFORNIA - BERKELEY	M Y WEI	GSFC	W L SILVER	NGT 5 30141	78
39	UNIV OF CALIFORNIA - BERKELEY	N KHAZENIE	GSFC	A GOULD	NAG 5 9317	73
39	UNIV OF CALIFORNIA - BERKELEY	P DECOLA	GSFC	A GOLDSTEIN	NAG 5 7173	70
39	UNIV OF CALIFORNIA - BERKELEY	P T HOUSER	GSFC	X LIANG	NAG 5 8737	72
39	UNIV OF CALIFORNIA - BERKELEY	S G UNGAR	GSFC	P GONG	NCC 5 492	77
39	UNIV OF CALIFORNIA - BERKELEY	W ABDALATI	GSFC	X LIANG	NAG 5 10673	74
39	UNIV OF CALIFORNIA - DAVIS	D E WICKLAND	GSFC	S L USTIN	NAG 5 7216	80
39	UNIV OF CALIFORNIA - DAVIS	D E WICKLAND	GSFC	S USTIN	NAG 5 9360	81
39	UNIV OF CALIFORNIA - DAVIS	D L JAN	HQ	S D COLLINS	NAG 9 1048	81
39	UNIV OF CALIFORNIA - DAVIS	M WEI	GSFC	C ANASTASIO	NGT 5 30187	83
39	UNIV OF CALIFORNIA - DAVIS	M WEI	GSFC	S USTIN	NGT 5 30352	83
39	UNIV OF CALIFORNIA - DAVIS	V C VANDERBILT	ARC	S L USTIN	NCC 2 5343	82
39	UNIV OF CALIFORNIA - IRVINE	A NURRIDIN	HQ	R J RICE	NGT 5 50226	87
39	UNIV OF CALIFORNIA - IRVINE	D DEERING	GSFC	S TRUMBORE	NCC 5 336	86
39	UNIV OF CALIFORNIA - IRVINE	D W DEERING	GSFC	M L GOULDEN	NCC 5 280	86
39	UNIV OF CALIFORNIA - IRVINE	D WICKLAND	GSFC	S TRUMBORE	NAG 5 7301	85
39	UNIV OF CALIFORNIA - IRVINE	M KURYLO	GSFC	D R BLAKE	NAG 5 8935	85
39	UNIV OF CALIFORNIA - IRVINE	M W WEI	GSFC	R J CICERONE	NGT 5 50325	87
39	UNIV OF CALIFORNIA - IRVINE	M WEI	GSFC	G MAGNUSDOTTIR	NGT 5 30203	86
39	UNIV OF CALIFORNIA - IRVINE	M WEI	GSFC	ZENDER	NAG 5 10546	85
39	UNIV OF CALIFORNIA - LOS ANGELES	E LINDSTROM	GSFC	J MCWILLIAMS	NAG 5 9860	93
39	UNIV OF CALIFORNIA - LOS ANGELES	K BERGMAN	GSFC	D J NEELIN	NAG 5 9358	92
39	UNIV OF CALIFORNIA - LOS ANGELES	M JACKSON	GSFC	J KIM	NAG 5 11363	94
39	UNIV OF CALIFORNIA - LOS ANGELES	M WEI	GSFC	A ELDERING	NAG 5 8812	91
39	UNIV OF CALIFORNIA - LOS ANGELES	M WEI	GSFC	L SMITH	NGT 5 30338	95
39	UNIV OF CALIFORNIA - LOS ANGELES	M WEI	GSFC	R P TURCO	NGT 5 30215	95
39	UNIV OF CALIFORNIA - LOS ANGELES	M WEI	GSFC	R TURCO	NGT 5 50332	95
39	UNIV OF CALIFORNIA - LOS ANGELES	M Y WEI	GSFC	K LIOU	NGT 5 30133	95
39	UNIV OF CALIFORNIA - LOS ANGELES	P R HOUSER	GSFC	Y XUE	NAG 5 9713	92
39	UNIV OF CALIFORNIA - RIVERSIDE	E T ENGMAN	GSFC	B P MOHANTY	NAG 5 8682	96
39	UNIV OF CALIFORNIA - SAN DIEGO	D E WICKLAND	GSFC	C KEELING	NAG 5 11217	102
39	UNIV OF CALIFORNIA - SAN DIEGO	D E WICKLAND	GSFC	D D KEELING	NAG 5 3528	96
39	UNIV OF CALIFORNIA - SAN DIEGO	D E WICKLANS	GSFC	R F KEELING	NAG 5 7637	99
39	UNIV OF CALIFORNIA - SAN DIEGO	E LINDSTROM	GSFC	D MILLER	NAG 5 6497	98
39	UNIV OF CALIFORNIA - SAN DIEGO	E LINDSTROM	GSFC	D STAMMER	NAG 5 8623	100
39	UNIV OF CALIFORNIA - SAN DIEGO	E LINDSTROM	GSFC	D STAMMER	NAG 5 8901	100
39	UNIV OF CALIFORNIA - SAN DIEGO	E LINDSTROM	GSFC	P NILER	NAG 5 8322	99
39	UNIV OF CALIFORNIA - SAN DIEGO	E LINSTROM	GSFC	A MILLER	NAG 5 9788	101
39	UNIV OF CALIFORNIA - SAN DIEGO	E PAYLOR	GSFC	J ROADS	NAG 5 8780	100
39	UNIV OF CALIFORNIA - SAN DIEGO	J A YODER	GSFC	R FROUIN	NAG 5 6202	98
39	UNIV OF CALIFORNIA - SAN DIEGO	J CAMPBELL	GSFC	R F KEELING	NAG 5 6668	98
39	UNIV OF CALIFORNIA - SAN DIEGO	J DODGE	GSFC	J J SIMPSON	NAG 5 9721	101
39	UNIV OF CALIFORNIA - SAN DIEGO	J W CAMPBELL	GSFC	D STRAMSKI	NAG 5 7100	98
39	UNIV OF CALIFORNIA - SAN DIEGO	J YODER	GSFC	B MITCHELL	NAG 5 6559	98
39	UNIV OF CALIFORNIA - SAN DIEGO	P DECOLA	GSFC	R F WEISS	NAG 5 8180	99
39	UNIV OF CALIFORNIA - SANTA BARBARA	A J TUYAHOV	GSFC	D C CLARKE	NAG 5 3620	106
39	UNIV OF CALIFORNIA - SANTA BARBARA	A TUYAHOV	GSFC	J E ESTES	NAG 5 10457	108
39	UNIV OF CALIFORNIA - SANTA BARBARA	D DEERING	GSFC	J MELACK	NCC 5 281	110
39	UNIV OF CALIFORNIA - SANTA BARBARA	D E WICKLAND	GSFC	D A ROBERTS	NAG 5 7248	107
39	UNIV OF CALIFORNIA - SANTA BARBARA	D W DEERING	GSFC	D A ROBERTS	NCC 5 589	110
39	UNIV OF CALIFORNIA - SANTA BARBARA	D W DEERING	GSFC	O A CHADWICK	NCC 5 282	110
39	UNIV OF CALIFORNIA - SANTA BARBARA	E KRIENS	GSFC	C GAUTIER	NAS 5 31374	109
39	UNIV OF CALIFORNIA - SANTA BARBARA	E LINDSTROM	GSFC	J C DOZIER	NAG 5 9844	108
39	UNIV OF CALIFORNIA - SANTA BARBARA	E T ENGMAN	GSFC	J SHI	NAG 5 8616	107
39	UNIV OF CALIFORNIA - SANTA BARBARA	E T ENGMAN	GSFC	T DUNNE	NAG 5 8396	107
39	UNIV OF CALIFORNIA - SANTA BARBARA	G A SHELTON	ARC	D A ROBERTS	NAG 2 1140	105
39	UNIV OF CALIFORNIA - SANTA BARBARA	J A MARRA	GSFC	R C SMITH	NAG 5 6434	107

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39	UNIV OF CALIFORNIA - SANTA BARBARA	J W CAMPBELL	GSFC	D A SIEGEL	NAG 5 8319	107
39	UNIV OF CALIFORNIA - SANTA BARBARA	J YODER	GSFC	D SIEGEL	NAG 5 6288	106
39	UNIV OF CALIFORNIA - SANTA BARBARA	M WEI	GSFC	D A ROBERTS	NGT 5 50327	111
39	UNIV OF CALIFORNIA - SANTA BARBARA	M WEI	GSFC	D A SIEGEL	NGT 5 30194	110
39	UNIV OF CALIFORNIA - SANTA BARBARA	M WEI	GSFC	D SIEGEL	NAG 5 6478	107
39	UNIV OF CALIFORNIA - SANTA BARBARA	M WEI	GSFC	K C CLARKE	NGT 5 30201	110
39	UNIV OF CALIFORNIA - SANTA BARBARA	M WEI	GSFC	MERTES	NGT 5 30173	110
39	UNIV OF CALIFORNIA - SANTA BARBARA	M WEI	GSFC	O CHADWICK	NGT 5 30357	111
39	UNIV OF CALIFORNIA - SANTA BARBARA	M WEI	GSFC	T DUNNE	NGT 5 30225	110
39	UNIV OF CALIFORNIA - SANTA BARBARA	M WEI	GSFC	T DUNNE	NGT 5 30332	111
39	UNIV OF CALIFORNIA - SANTA BARBARA	M Y WEI	GSFC	N M MAHOWALD	NAG 5 8680	108
39	UNIV OF CALIFORNIA - SANTA BARBARA	N KHAZENIE	GSFC	C GAUTIER	NAG 5 4963	106
39	UNIV OF CALIFORNIA - SANTA BARBARA	P DECOLA	GSFC	N M MAHOWALD	NAG 5 9671	108
39	UNIV OF CALIFORNIA - SANTA BARBARA	S G UNGAR	GSFC	D A ROBERTS	NCC 5 496	110
39	UNIV OF CALIFORNIA - SANTA BARBARA	S GOGINENI	GSFC	J C DOZIER	NAG 5 4814	106
39	UNIV OF CALIFORNIA - SANTA BARBARA	T JANETOS	GSFC	T DUNNE	NAG 5 6120	106
39	UNIV OF CALIFORNIA - SANTA BARBARA	W ABDALATI	GSFC	J SHI	NAG 5 10671	108
39	UNIV OF CALIFORNIA - SANTA CRUZ	D DESMARAIS	ARC	G H RAU	NCC 2 5456	114
39	UNIV OF CALIFORNIA - SANTA CRUZ	D J DES MARAIS	ARC	G H RAU	NCC 2 5339	113
39	UNIV OF CALIFORNIA - SANTA CRUZ	J MARRA	GSFC	R KUDELA	NAG 5 8855	112
39	UNIV OF CALIFORNIA - SANTA CRUZ	J W MARRA	GSFC	R KUDELA	NAG 5 8750	112
39	UNIV OF CALIFORNIA - SANTA CRUZ	M Y WEI	GSFC	R S ANDERSON	NGT 5 30112	114
39	UNIV OF CHICAGO	E G STANSBERY	JSC	A J TUZZOLINO	NAG 9 1306	207
39	UNIV OF CINCINNATI	D E WICKLAND	GSFC	R C FROHN	NAG 5 7098	423
39	UNIV OF CINCINNATI	T SCOTT	GRC	D BECK	NAG 3 2437	423
39	UNIV OF COLORADO - BOULDER	A C JANETOS	GSFC	D A WESSMAN	NAG 5 6134	127
39	UNIV OF COLORADO - BOULDER	A	GSFC	K STEFFEN	NAG 5 10857	136
39	UNIV OF COLORADO - BOULDER	B A WIELICKI	LARC	E C WEATHERHEAD	NCC 1 01048	139
39	UNIV OF COLORADO - BOULDER	B A WIELICKI	LARC	E C	NAG 1 01081	123
39	UNIV OF COLORADO - BOULDER	D C WICKLAND	GSFC	G P ASNER	NAG 5 8320	131
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39	UNIV OF COLORADO - BOULDER	D J KAHLE	GSFC	W EMERY	NAG 5 3847	125
39	UNIV OF COLORADO - BOULDER	D L PIERCE	WFF	W EMERY	NAG 5 5274	127
39	UNIV OF COLORADO - BOULDER	D L WILLIAMS	GSFC	A GOETZ	NAG 5 3437	125
39	UNIV OF COLORADO - BOULDER	D L WILLIAMS	GSFC	T SCAMBOS	NAG 5 3438	125
39	UNIV OF COLORADO - BOULDER	D WICKLAND	GSFC	A GOETZ	NAG 5 8912	132
39	UNIV OF COLORADO - BOULDER	E ENGMAN	GSFC	D YATES	NAG 5 7541	129
39	UNIV OF COLORADO - BOULDER	E LINDSTROM	GSFC	J MASLANIK	NAG 5 9861	134
39	UNIV OF COLORADO - BOULDER	E LINDSTROM	GSFC	J STROEVE	NAG 5 9602	134
39	UNIV OF COLORADO - BOULDER	G ASRAR	HQ	D WEISMAN	NGT 5 30026	140
39	UNIV OF COLORADO - BOULDER	G C GUTMIN	GSFC	D WEBB	NAG 5 6051	127
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39	UNIV OF COLORADO - BOULDER	J C DODGE	GSFC	D EMERY	NAG 5 6521	127
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39	UNIV OF NEW HAMPSHIRE - DURHAM	D E WICKLAND	GSFC	S FROLKING	NAG 5 6623	346
39	UNIV OF NEW HAMPSHIRE - DURHAM	D E WICKLAND	GSFC	S FROLKING	NAG 5 7095	346
39	UNIV OF NEW HAMPSHIRE - DURHAM	D W DEERING	GSFC	B MOORE	NCC 5 338	349
39	UNIV OF NEW HAMPSHIRE - DURHAM	D WICKLAND	GSFC	B BRASWELL	NAG 5 6115	346
39	UNIV OF NEW HAMPSHIRE - DURHAM	D WICKLAND	GSFC	B ROCK	NAG 5 5192	345
39	UNIV OF NEW HAMPSHIRE - DURHAM	D WICKLAND	GSFC	C LI	NAG 5 6453	346

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39	UNIV OF NEW HAMPSHIRE - DURHAM	E A LINDSTROM	GSFC	W S BROWN	NAG 5 6289	346
39	UNIV OF NEW HAMPSHIRE - DURHAM	E T ENGMAN	GSFC	C J VOROSMARTY	NAG 5 8683	347
39	UNIV OF NEW HAMPSHIRE - DURHAM	G Q GUTMAN	GSFC	X XIAO	NAG 5 11160	349
39	UNIV OF NEW HAMPSHIRE - DURHAM	J A YODER	GSFC	C VOROSMARTY	NAG 5 6452	346
39	UNIV OF NEW HAMPSHIRE - DURHAM	M WEI	GSFC	P CRILL	NGT 5 30125	350
39	UNIV OF NEW HAMPSHIRE - DURHAM	P HOUSER	GSFC	C VOROSMARTY	NAG 5 9617	348
39	UNIV OF NEW HAMPSHIRE - DURHAM	P T HOUSER	GSFC	C J VOROSMARTY	NAG 5 8443	347
39	UNIV OF NEW HAMPSHIRE - DURHAM	S G UNGAR	GSFC	M E MARTIN	NCC 5 477	349
39	UNIV OF NEW HAMPSHIRE - DURHAM	S GOGINENI	GSFC	W SALAS	NAG 5 8452	347
39	UNIV OF NEW MEXICO-ALBUQUERQUE	A C JANETOS	GSFC	C N DAHM	NAG 5 6999	364
39	UNIV OF NEW MEXICO-ALBUQUERQUE	A PEEK	SSC	S A MORAIN	NCC13 98002	366
39	UNIV OF NORTH ALABAMA	N KHAZENIE	GSFC	W R STRONG	NAG 5 9085	16
39	UNIV OF NORTH CAROLINA - CHAPEL HILL	D DEERING	GSFC	R BILSBORROW	NCC 5 295	403
39	UNIV OF NORTH CAROLINA - CHAPEL HILL	D E WICKLAND	GSFC	S C WHALEN	NAG 5 6278	402
39	UNIV OF NORTH CAROLINA - CHAPEL HILL	D W DEERING	GSFC	C S MARTENS	NCC 5 337	403
39	UNIV OF NORTH CAROLINA - CHAPEL HILL	G GUTMAN	GSFC	R RINDFUSS	NAG 5 11290	403
39	UNIV OF NORTH CAROLINA - CHAPEL HILL	P DECOLA	GSFC	R E MILLER	NAG 5 8924	403
39	UNIV OF NO CAROLINA AT WILMINGTON	J W CAMPBELL	GSFC	S D EMSLIE	NAG 5 7629	19
39	UNIV OF NO CAROLINA AT WILMINGTON	J W CAMPBELL	GSFC	S D EMSLIE	NAG 5 8114	403
39	UNIV OF NORTH DAKOTA	B A SPIERING	SSC	G A SEIESTAD	NAG13 01006	405
39	UNIV OF NORTH DAKOTA	C YUHAS	GSFC	M POELLET	NCC 5 503	405
39	UNIV OF NORTH DAKOTA	D E WICKLAND	GSFC	C A GRAINGER	NAG 5 7950	404
39	UNIV OF NORTH DAKOTA	F HASLER	GSFC	C A WOOD	NAG 5 2696	404
39	UNIV OF NORTH DAKOTA	J J COLLIER	GSFC	G A SEIELSTAD	NAG 5 3616	404
39	UNIV OF OKLAHOMA - NORMAN	M Y WEI	GSFC	K CRAWFORD	NGT 5 30151	430
39	UNIV OF OREGON - EUGENE	M WEI	GSFC	P BARTLEIN	NGT 5 50107	435
39	UNIV OF PENNSYLVANIA	M Y WEI	GSFC	H DAI	NGT 5 30165	453
39	UNIV OF PITTSBURGH	N KHAZENIE	GSFC	A A PANAH	NAG 5 6164	454
39	UNIV OF PITTSBURGH	N KHAZENIE	GSFC	A I PANAH	NAG 5 9051	455
39	UNIV OF PUERTO RICO - MAYAGUEZ	J W CAMBELL	GSFC	J CORREDOR	NAG 5 7198	557
39	UNIV OF PUERTO RICO - MAYAGUEZ	M WEI	GSFC	A J CRUZ	NGT 5 30364	557
39	UNIV OF PUERTO RICO-RIO PIEDRAS	N KHAZENIE	GSFC	I L APONTE-AVELLANE	NAG 5 9050	558
39	UNIV OF RHODE ISLAND	E LINDSTROM	GSFC	P CORNILLON	NAG 5 6320	461
39	UNIV OF RHODE ISLAND	E T ENGMAN	GSFC	Y WANG	NAG 5 8739	461
39	UNIV OF RHODE ISLAND	J CAMPBELL	GSFC	J A YODER	NAG 5 6645	461
39	UNIV OF RHODE ISLAND	J DODGE	GSFC	J YODER	NAG 5 9724	461
39	UNIV OF RHODE ISLAND	J DODGE	GSFC	P CORNILLON	NAG 5 9633	461
39	UNIV OF RHODE ISLAND	J YODER	GSFC	P M STEGMANN	NAG 5 6560	461
39	UNIV OF RHODE ISLAND	M WEI	GSFC	Y WANG	NAG 5 8829	461
39	UNIV OF SAN DIEGO	M MAIDEN	GSFC	J J SIMPSON	NCC 5 308	115
39	UNIV OF SOUTH ALABAMA	R ARNOLD	MSFC	M CARPENTER	NCC 8 161	16
39	UNIV OF SOUTH CAROLINA-COLUMBIA	A JOYCE	JSC	J JENSEN	NGT13 52712	466
39	UNIV OF SOUTH CAROLINA-COLUMBIA	D WICKLAND	GSFC	V LAKSHMI	NAG 5 9233	465
39	UNIV OF SOUTH CAROLINA-COLUMBIA	E T ENGMAN	GSFC	V LAKSHMI	NAG 5 8875	465
39	UNIV OF SOUTH CAROLINA-COLUMBIA	P T HOUSER	GSFC	V LAKSHIMI	NAG 5 8837	465
39	UNIV OF SOUTH FLORIDA	D L WILLIAMS	GSFC	KARGER	NAG 5 3446	178
39	UNIV OF SOUTH FLORIDA	J DODGE	GSFC	F E MULLER-KARGER	NAG 5 8175	178
39	UNIV OF SOUTH FLORIDA	J DODGE	GSFC	F MULLER-KARGER	NAG 5 10532	178
39	UNIV OF SOUTH FLORIDA	J MARRA	GSFC	F MULLER-KARGER	NAG 5 6448	178
39	UNIV OF SOUTH FLORIDA	J MARRA	GSFC	J WALSH	NAG 5 6449	178
39	UNIV OF SOUTH FLORIDA	M WEI	GSFC	F MULLER-KARGER	NGT 5 30354	179
39	UNIV OF SOUTH FLORIDA	M Y WEI	GSFC	G T MITHCHUM	NGT 5 30143	179
39	UNIV OF SOUTH FLORIDA	M Y WEI	GSFC	J R BROOKS	NGT 5 30159	179
39	UNIV OF SOUTHERN CALIFORNIA	J CAMPBELL	GSFC	D BOGUCKI	NAG 5 8309	117
39	UNIV OF SOUTHERN CALIFORNIA	J MARRA	GSFC	D BOGUCKI	NAG 5 11218	117
39	UNIV OF SOUTHERN CALIFORNIA	J MARRA	GSFC	D CAPONE	NAG 5 8884	117
39	UNIV OF SOUTHERN CALIFORNIA	J MARRA	GSFC	R ITURRIAGA	NAG 5 9740	117
39	UNIV OF SOUTHERN CALIFORNIA	J W CAMPBELL	GSFC	B H JONES	NAG 5 8445	117
39	UNIV OF SOUTHERN MAINE	N KHAZENIE	GSFC	S M LOCKE	NAG 5 9128	239
39	UNIV OF SOUTHERN MISSISSIPPI	M THOMAS	SSC	W HAWKINS	NAG13 01005	329
39	UNIV OF TENNESSEE - CHATTANOOGA	B MEESON	GSFC	T L PATTY	NAG 5 9031	469
39	UNIV OF TENNESSEE - KNOXVILLE	B V GUYNES	MSFC	G J BUNICK	NAG 8 1568	471
39	UNIV OF TEXAS - AUSTIN	E T ENGMAN	GSFC	J S FAMIGLIETTI	NAG 5 8611	494
39	UNIV OF TEXAS - AUSTIN	M RIENECKER	GSFC	J S FAMIGLIETTI	NAG 5 8290	494

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39	UNIV OF TEXAS - AUSTIN	M WEI	GSFC	J S FAMIGLIETTI	NGT 5 30162	498
39	UNIV OF TEXAS - AUSTIN	R FITZGERALD	GSFC	B TAPLEY	NAS 5 97213	497
39	UNIV OF TEXAS - AUSTIN	S G UNGAR	GSFC	W A WHITE	NCC 5 463	497
39	UNIV OF TEXAS - AUSTIN	S GOGINENI	GSFC	D D BLANKENSHIP	NAG 5 7910	494
39	UNIV OF TEXAS - EL PASO	J BRADEN	DFRC	V HARDER	NAG 5 6163	499
39	UNIV OF TOLEDO	D E WICKLAND	GSFC	K P CZAJKOWSKI	NAG 5 8052	426
39	UNIV OF TOLEDO	M Y WEI	GSFC	K P CZAJKOWSKI	NAG 5 8671	426
39	UNIV OF TOLEDO	T M SCOTT	GRC	D P CZAJKOWSKI	NAG 3 2409	425
39	UNIV OF UTAH	D DEERING	GSFC	J EHLERINGER	NCC 5 297	503
39	UNIV OF UTAH	D E WICKLAND	GSFC	J R EHLERINGER	NAG 5 7447	502
39	UNIV OF UTAH	E ENGMAN	GSFC	D TARBOTON	NAG 5 7521	502
39	UNIV OF UTAH	J C DODGE	GSFC	K JEZEK	NAG 5 8550	503
39	UNIV OF UTAH	M WEI	GSFC	J R EHLERINGER	NGT 5 30202	503
39	UNIV OF UTAH	M WEI	GSFC	R R FORSTER	NGT 5 30184	503
39	UNIV OF UTAH	S GOGINENI	GSFC	R FORESTER	NAG 5 7871	503
39	UNIV OF VERMONT	V C VANDERBILT	ARC	G P LIVINGSTON	NCC 2 5342	506
39	UNIV OF VERMONT	V C VANDERBILT	ARC	G P LIVINGSTON	NCC 2 5399	506
39	UNIV OF VIRGINIA	A C JANETOS	GSFC	C O JUSTICE	NAG 5 8162	524
39	UNIV OF VIRGINIA	A C JANETOS	GSFC	P DESANKER	NAG 5 6384	523
39	UNIV OF VIRGINIA	A JANETOS	GSFC	H SHUGART	NAG 5 6043	523
39	UNIV OF VIRGINIA	A JANETOS	GSFC	T SMITH	NAG 5 6351	523
39	UNIV OF VIRGINIA	C J TUCKER	GSFC	C O JUSTICE	NAG 5 8838	525
39	UNIV OF VIRGINIA	C J TUCKER	GSFC	C O JUSTICE	NAG 5 11341	526
39	UNIV OF VIRGINIA	C TUCKER	GSFC	C JUSTICE	NAG 5 7417	524
39	UNIV OF VIRGINIA	D E WICKLAND	GSFC	H H SHUGART	NAG 5 7956	524
39	UNIV OF VIRGINIA	D E WICKLAND	GSFC	H H SHUGART	NAG 5 9357	525
39	UNIV OF VIRGINIA	D E WICKLAND	GSFC	W R EMANUEL	NAG 5 8612	524
39	UNIV OF VIRGINIA	D WICKLAND	GSFC	C O JUSTICE	NAG 5 7862	524
39	UNIV OF VIRGINIA	G GUTMAN	GSFC	P V DESANKER	NAG 5 9289	525
39	UNIV OF VIRGINIA	H K RAMPRIYAN	GSFC	G D EMMITT	NAG 5 7033	523
39	UNIV OF VIRGINIA	J GRANT	GSFC	A HOWARD	NAG 5 8902	525
39	UNIV OF VIRGINIA	J PRIVETTE	GSFC	R J SWAPP	NAG 5 7266	524
39	UNIV OF VIRGINIA	J PRIVETTE	GSFC	R J SWAPP	NAG 5 10985	526
39	UNIV OF VIRGINIA	M WEI	GSFC	R SWAP	NAG 5 10606	526
39	UNIV OF VIRGINIA	M Y WEI	GSFC	J D ALBERTSON	NAG 5 8670	525
39	UNIV OF WASHINGTON	A C JANETOS	GSFC	J RICHEY	NAG 5 4712	535
39	UNIV OF WASHINGTON	A T CHANG	GSFC	L TSANG	NAG 5 4739	535
39	UNIV OF WASHINGTON	A T CHANG	GSFC	L TSANG	NAG 5 9835	539
39	UNIV OF WASHINGTON	D W DEERING	GSFC	J E RICHEY	NCC 5 345	541
39	UNIV OF WASHINGTON	D WICKLAND	GSFC	D LETTENMAIER	NAG 5 7300	537
39	UNIV OF WASHINGTON	E LINDSTROM	GSFC	A T JESSUP	NAG 5 7526	537
39	UNIV OF WASHINGTON	E LINDSTROM	GSFC	K KELLY	NAG 5 8296	537
39	UNIV OF WASHINGTON	J A CURRAN	GSFC	J M DECOSMO	NAG 5 6297	536
39	UNIV OF WASHINGTON	J A WEINMAN	GSFC	R HOUZE	NCC 5 584	541
39	UNIV OF WASHINGTON	J DODGE	GSFC	D LETTENMAIER	NAG 5 9416	538
39	UNIV OF WASHINGTON	J DODGE	GSFC	R LINDSAY	NAG 5 6493	536
39	UNIV OF WASHINGTON	J R BLOCKER	MSFC	M BAKER	NAG 8 1512	540
39	UNIV OF WASHINGTON	J W MARRA	GSFC	B FROST	NAG 5 7604	537
39	UNIV OF WASHINGTON	J ZWALLY	GSFC	C F RAYMOND	NAG 5 9906	539
39	UNIV OF WASHINGTON	K PARTINGTON	GSFC	H STERN	NAG 5 9854	539
39	UNIV OF WASHINGTON	K PATRINGTON	GSFC	D A ROTHROCK	NAG 5 9334	538
39	UNIV OF WASHINGTON	M WEI	GSFC	D P LETTENMAIER	NGT 5 30220	542
39	UNIV OF WASHINGTON	M WEI	GSFC	J M WALLACE	NGT 5 30195	542
39	UNIV OF WASHINGTON	M WEI	GSFC	S R EMERSON	NGT 5 30213	542
39	UNIV OF WASHINGTON	M WEI	GSFC	S WARREN	NGT 5 50334	543
39	UNIV OF WASHINGTON	M WEI	GSFC	T HINCKLEY	NGT 5 30343	542
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39	UNIV OF WASHINGTON	M Y WEI	GSFC	J E RICHEY	NGT 5 30161	542
39	UNIV OF WASHINGTON	M Y WEI	GSFC	T M HINCKLEY	NGT 5 30157	542
39	UNIV OF WASHINGTON	P HOUSER	GSFC	D LETTENMAIER	NAG 5 9454	538
39	UNIV OF WASHINGTON	S GOGINENI	GSFC	A SCHWEIGER	NAG 5 7847	537
39	UNIV OF WASHINGTON	S GOGINENI	GSFC	D A ROTHROCK	NAG 5 4375	535
39	UNIV OF WASHINGTON	S GOGINENI	GSFC	D WINEBRENNER	NAG 5 6819	536
39	UNIV OF WASHINGTON	S GOGINENI	GSFC	S MARTIN	NAG 5 6894	536
39	UNIV OF WISCONSIN - MADISON	B N HOLBEN	GSFC	E PRINS	NAG 5 4751	548

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39	UNIV OF WISCONSIN - MADISON	D E WICKLAND	GSFC	J FOLEY	NAG 5 7214	549
39	UNIV OF WISCONSIN - MADISON	D E WICKLAND	GSFC	S T GOWER	NAG 5 7298	549
39	UNIV OF WISCONSIN - MADISON	D E WICKLAND	GSFC	S T GOWER	NAG 5 8069	550
39	UNIV OF WISCONSIN - MADISON	D L PIERCE	GSFC	S ACKERMAN	NAG 5 5272	548
39	UNIV OF WISCONSIN - MADISON	D W DEERING	GSFC	J M NORMAN	NCC 5 294	554
39	UNIV OF WISCONSIN - MADISON	D WICKLAND	GSFC	J FOLLEY	NAG 5 9452	551
39	UNIV OF WISCONSIN - MADISON	E KREINS	GSFC	W L SMITH	NAS 5 31377	553
39	UNIV OF WISCONSIN - MADISON	E T ENGMAN	GSFC	D MACKAY	NAG 5 8554	550
39	UNIV OF WISCONSIN - MADISON	E T ENGMAN	GSFC	J A FOLEY	NAG 5 8597	550
39	UNIV OF WISCONSIN - MADISON	G GUTMAN	GSFC	M COE	NAG 5 11085	552
39	UNIV OF WISCONSIN - MADISON	J DODGE	GSFC	A HUANG	NAG 5 9389	551
39	UNIV OF WISCONSIN - MADISON	J DODGE	GSFC	F BRETHERTON	NAG 5 7192	549
39	UNIV OF WISCONSIN - MADISON	J DODGE	GSFC	G DIAK	NAG 5 9436	551
39	UNIV OF WISCONSIN - MADISON	M WEI	GSFC	D MACKAY	NAG 5 6535	548
39	UNIV OF WISCONSIN - MADISON	M Y WEI	GSFC	H F WANG	NGT 5 30146	554
39	UNIV OF WISCONSIN - MADISON	M Y WEI	GSFC	W BRINKMANN	NGT 5 30160	554
39	UNIV OF WISCONSIN - MADISON	N KHAZENIE	GSFC	S S LIMAYE	NAG 5 9028	550
39	UNIV OF WISCONSIN - MADISON	S GOGINENI	GSFC	J R KEY	NAG 5 8625	550
39	UNIV OF WYOMING	D E WICKLAND	GSFC	E HUNT	NAG 5 3861	555
39	UNIV OF WYOMING	M WEI	GSFC	W REINER	NGT 5 30350	556
39	UTAH STATE UNIV	J F DOWDY	MSFC	F BAKER	NGT 8 52866	506
39	UTAH STATE UNIV	S PEARSON	MSFC	J R DENNISON	NAS 8 98221	505
39	VA POLYTECH INST & ST UNIV	M WEI	GSFC	R H WYNNE	NGT 5 30198	532
39	VA POLYTECH INST & ST UNIV	M WEI	GSFC	R WYNNE	NAG 5 10548	530
39	VALPARISO UNIV	J C DODGE	GSFC	G A MORRIS	NAG 5 8490	222
39	WEST VIRGINIA UNIV	D LONGEDDY	MSFC	J G WELLS	NAG 8 1496	545
39	WEST VIRGINIA UNIV	J POE	MSFC	T MELOY	NAG 8 1494	545
39	WHEELING JESUIT UNIV	M Y WEI	GSFC	R J MEYERS	NAG 5 8628	546
39	WHEELING JESUIT UNIV	N KHAZENIE	GSFC	R MYERS	NAG 5 6961	546
39	WOODS HOLE OCEANOGRAPHIC INST	A C JANETOS	GSFC	H M SOSIK	NAG 5 7538	305
39	WOODS HOLE OCEANOGRAPHIC INST	E LINDSTROM	GSFC	R A KRISHFIELD	NAG 5 7770	305
39	WOODS HOLE OCEANOGRAPHIC INST	J MARRA	GSFC	D J MCGILLICUDDY	NAG 5 6455	304
39	WOODS HOLE OCEANOGRAPHIC INST	J MARRA	GSFC	H SOSIK	NAG 5 8868	305
39	WOODS HOLE OCEANOGRAPHIC INST	J W CAMPBELL	GSFC	H M SOSIK	NAG 5 7445	305
39	WOODS HOLE OCEANOGRAPHIC INST	M WEI	GSFC	D M GLOVER	NGT 5 30362	305
39	WOODS HOLE OCEANOGRAPHIC INST	M WEI	GSFC	H SOSIK	NGT 5 30206	305
39	YALE UNIV	G GUTMAN	GSFC	R SMITH	NAG 5 9316	147
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41	ALABAMA A&M UNIV	J R PRUITT	MSFC	R B LAL	NCC 8 211	2
41	ALABAMA A&M UNIV	L CHOU	MSFC	G S LIAW	NAG 8 1626	2
41	ARIZONA STATE UNIV	A CHAIT	GRC	K D SQUIRES	NAG 3 2081	19
41	ARIZONA STATE UNIV	C D WIESEMAN	LARC	A CHATTOPADYAY	NAG 1 1988	19
41	ARIZONA STATE UNIV	D R AMBUR	LARC	A CHATTOPADHYAY	NAG 1 2283	19
41	ARIZONA STATE UNIV	H MIURA	ARC	A CHATTOPADHYAY	NAG 2 908	19
41	BETHUNE - COOKMAN COLLEGE	S DUTCZAK	KSC	G W BECKLES	NAG10 195	161
41	BOWLING GREEN STATE UNIV	J L DOLCE	GRC	S BALLARD	NAS 3 99202	405
41	BROWN UNIV	H L ATKINS	LARC	C SHU	NAG 1 2070	457
41	BROWN UNIV	P C MURPHY	LARC	A E PEARSON	NAG 1 2201	457
41	CALIFORNIA INST OF TECH	J H STARNES	GSFC	W G KNAUSS	NAG 1 1975	41
41	CALIFORNIA INST OF TECH	M B TISCHER	ARC	D J BIEZAD	NAG 2 1316	41
41	CALIFORNIA POLYTECH STATE U-SAN LUIS	J ZUK	ARC	D W HALL	NCC 2 5392	50
41	CALIFORNIA POLYTECH STATE U-SAN LUIS	M B TISCHER	ARC	D J BIEZAD	NAG 2 1169	50
41	CALIFORNIA POLYTECH STATE U-SAN LUIS	M D MOORE	LARC	D HALL	NAG 1 01099	50
41	CALIFORNIA POLYTECH STATE U-SAN LUIS	M TISCHER	ARC	D J BIEZAD	NCC 2 1149	50
41	CALIFORNIA POLYTECH STATE U-SAN LUIS	S ATKINS	ARC	S HOCKADAY	NAG 2 1386	50
41	CALIFORNIA ST	K GUPTA	DFRC	W E MORTENSEN	NAG 4 171	50
41	CALIFORNIA STATE UNIV - FRESNO	J BRADEN	DFRC	S MAHANTY	NAG 4 153	51
41	CALIFORNIA STATE UNIV - FRESNO	J BRADEN	DFRC	S MAHANTY	NAG 4 172	51
41	CALIFORNIA STATE UNIV - LOS ANGELES	E L DUKE	DFRC	T ADENIKA-MORROW	NAG 4 127	51
41	CALIFORNIA STATE UNIV - LOS ANGELES	J BRADEN	DFRC	L - HSIA	NAG 4 151	51
41	CALIFORNIA STATE UNIV - LOS ANGELES	K GUPTA	DFRC	C WU	NAG 4 174	51
41	CALIFORNIA STATE UNIV - LOS ANGELES	K GUPTA	DFRC	M MIRMIRANI	NAG 4 175	51
41	CARNEGIE - MELLON UNIV	M B TISCHER	ARC	C E THORPE	NAG 2 1276	436
41	CARNEGIE - MELLON UNIV	M B TISCHER	ARC	W C MESSNER	NAG 2 1441	436

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41	CASE WESTERN RESERVE UNIV	D NG	GRC	D HAZONY	NAG 3 2243	406
41	CASE WESTERN RESERVE UNIV	M G POTAPCZUK	GRC	J D ALEXANDER	NAG 3 2581	406
41	CASE WESTERN RESERVE UNIV	S M ARNOLD	GRC	R M AIKEN	NCC 3 464	407
41	CHRISTOPHER NEWPORT UNIV	R C SINGLETERRY	LARC	K CHANG	NCC 1 01028	507
41	CHRISTOPHER NEWPORT UNIV	T E PINELLI	LARC	R CATON	NAG 1 2219	507
41	CITY UNIV OF NY CITY COLLEGE	D O DAVIS	GRC	Y ANDREOPOULOS	NAG 3 2163	367
41	CITY UNIV OF NY CITY COLLEGE	K J BREISACHER	GRC	P P HO	NAG 3 2074	367
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41	CLARKSON UNIV	C C CHAMIS	GRC	D MINNETYAN	NAG 3 2394	369
41	CLARKSON UNIV	C C CHAMIS	GRC	D MINNETYAN	NAG 3 2609	369
41	CLARKSON UNIV	C S YAO	LARC	M N GLAUSER	NGT 1 52214	369
41	CLARKSON UNIV	J JUANG	LARC	R F SCHMIT	NGT 1 52222	369
41	CLARKSON UNIV	M E HILL	GRC	D MINNETYAN	NAG 3 2393	369
41	CLEVELAND STATE UNIV	W MORALES	GRC	J E GATICA	NCC 3 876	411
41	COLLEGE OF WILLIAM AND MARY	D J JOBSON	LARC	Z RAHMAD	NCC 1 01030	508
41	COLLEGE OF WILLIAM AND MARY	J H STARNES, JR.	LARC	D M MANOS	NCC 1 356	508
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41	UNIV OF MARYLAND - COLLEGE PARK	A S POTOTZKY	LARC	I CHOPRA	NAG 1 01084	255
41	UNIV OF MARYLAND - COLLEGE PARK	C L STREETT	LARC	U PIOMELLI	NAG 1 2285	255
41	UNIV OF MARYLAND - COLLEGE PARK	D FOLTA	GSFC	P KRISHNAPRASAD	NAG 5 10819	266
41	UNIV OF MARYLAND - COLLEGE PARK	D T PALAC	GRC	D J LEWIS	NAG 3 2480	256
41	UNIV OF MARYLAND - COLLEGE PARK	G SOFFEN	GSFC	D PINES	NGT 5 107	271
41	UNIV OF MARYLAND - COLLEGE PARK	J L THOMAS	LARC	U PIOMELLI	NAG 1 1880	255
41	UNIV OF MARYLAND - COLLEGE PARK	J TOTH	GSFC	B SHAPIRO	NAG 5 10563	266
41	UNIV OF MARYLAND - COLLEGE PARK	K Q NGYUEN	ARC	I CHOPRA	NGT 2 52214	271
41	UNIV OF MARYLAND - COLLEGE PARK	M B TISCHER	ARC	R CELI	NAG 2 1407	256
41	UNIV OF MARYLAND - COLLEGE PARK	M B TISCHER	ARC	W S LEVINE	NAG 2 1311	255
41	UNIV OF MARYLAND - COLLEGE PARK	M CONCHA	GSFC	M J LEWIS	NAG 5 9890	264
41	UNIV OF MARYLAND - COLLEGE PARK	M S BURRELL	GSFC	M GAVRILAS	NAG 5 9151	262
41	UNIV OF MARYLAND - COLLEGE PARK	P KOLODZIEJ	ARC	M J LEWIS	NCC 2 1129	269
41	UNIV OF MARYLAND - COLLEGE PARK	R A STRAWN	ARC	F SCHMITZ	NAG 2 1405	255
41	UNIV OF MARYLAND - COLLEGE PARK	R R TACINA	GRC	A K GUPTA	NAG 3 2337	256
41	UNIV OF MARYLAND - COLLEGE PARK	S R THOMAS	GRC	M J LEWIS	NAG 3 2106	256
41	UNIV OF MARYLAND - COLLEGE PARK	S STRARIN	GSFC	R SANNER	NAG 5 11313	268
41	UNIV OF MARYLAND - COLLEGE PARK	T STENGLE	GSFC	E M ATKINS	NAG 5 9961	265
41	UNIV OF MARYLAND - COLLEGE PARK	T STENGLE	GSFC	W FOURNEY	NAS 5 99211	269
41	UNIV OF MARYLAND - COLLEGE PARK	W G WARMBRODT	ARC	I CHOPRA	NAG 2 1329	255
41	UNIV OF MARYLAND - COLLEGE PARK	W WARMBRODT	ARC	F HARRIS	NCC 2 1146	269
41	UNIV OF MARYLAND - COLLEGE PARK	Y H YU	ARC	I CHOPRA	NCC 2 944	269
41	UNIV OF MARYLAND - COLLEGE PARK	Y YU	ARC	CHOPRA	NGT 2 52273	271
41	UNIV OF MASSACHUSETTS - AMHERST	A REEHORST	GRC	S SEKELSEY	NAS 3 00121	304
41	UNIV OF MASSACHUSETTS - AMHERST	M E LIVINGSTON	ARC	A DASCHMULCH	NCC 2 1180	304
41	UNIV OF MICHIGAN - ANN ARBOR	G SOFFEN	GSFC	K POWELL	NGT 5 75	318
41	UNIV OF MICHIGAN - ANN ARBOR	J A LEITNER	GSFC	D HYLAND	NAG 5 10336	315
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41	UNIV OF MISSOURI - COLUMBIA	T B GATSKI	LARC	O VASILYEV	NGT 1 01017	331
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41	UNIV OF MISSOURI - ROLLA	C C WEY	GRC	P D WHITEFIELD	NAG 3 2185	331
41	UNIV OF MISSOURI - ROLLA	C R MCCLINTON	LARC	D W RIGGINS	NAG 1 01122	331
41	UNIV OF MISSOURI - ROLLA	D THURMAN	GRC	D W RIGGINS	NAG 3 2608	331
41	UNIV OF MISSOURI - ROLLA	E ENVIA	GRC	W EVERSMAN	NAG 3 2340	331
41	UNIV OF MISSOURI - ROLLA	I Y TUMER	ARC	R B STONE	NCC 2 5423	332
41	UNIV OF MISSOURI - ROLLA	J J TOTAH	GSFC	S N BALAKRISHNAN	NCC 2 5419	331
41	UNIV OF NEW MEXICO-ALBUQUERQUE	J GAMBINO	GSFC	M OSINSKI	NAG 5 10372	365
41	UNIV OF NEW MEXICO-ALBUQUERQUE	J GOODRICH	GRC	T HAGSTROM	NAG 3 2626	364
41	UNIV OF NEW MEXICO-ALBUQUERQUE	R D JOSLIN	LARC	C R TRUMAN	NAG 1 2018	364
41	UNIV OF NEW ORLEANS	A JOYCE	SSC	Y TRAYHAM	NGT13 52719	237
41	UNIV OF NORTH CAROLINA - CHAPEL HILL	J SMITH, JR.	LARC	O	NAG 1 01061	402
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41	UNIV OF NOTRE DAME	J B ANDERS	LARC	F O THOMAS	NAG 1 2179	220
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41	UNIV OF NOTRE DAME	J H STARNES, JR.	LARC	E CORONA	NAG 1 2214	220
41	UNIV OF NOTRE DAME	J R SCOTT	GRC	D ATASSI	NCC 3 770	222
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41	UNIV OF RHODE ISLAND	J LEI	GRC	O GREGORY	NAG 3 2208	460
41	UNIV OF SOUTH FLORIDA	J A DIGGS	KSC	R E HENNING	NAG10 204	179
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41	UNIV OF SOUTHERN COLORADO	A E MOTLEY	LARC	L M GARRETT	NGT 1 52209	144
41	UNIV OF TENNESSEE - KNOXVILLE	C R MCCLINTON	LARC	D W RIGGINS	NAG 1 2292	469
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41	UNIV OF TEXAS - AUSTIN	W A SILVA	LARC	E J POWERS	NAG 1 01109	491
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41	UNIV OF TEXAS AT SAN ANTONIO	C CHAMIS	GRC	R D MANTEUFEL	NAG 3 2297	501
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41	UNIV OF VIRGINIA	A NURRIDIN	HQ	J FRENCH	NGT 5 50062	527
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41	UNIV OF VIRGINIA	D D MOERDER	LARC	N NAJ-HARERI	NAG 1 01120	522
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41	UNIV OF WASHINGTON	C D WIESEMAN	LARC	E LIVNE	NAG 1 01029	534
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41	UNIV OF WYOMING	D M DRIVER	ARC	J W NAUGHTON	NCC 2 5315	556
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41	UNIV OF WYOMING	S A WHITMORE	DFRC	D W NAUGHTON	NAG 4 208	555
41	UTAH STATE UNIV	K LUU	GSFC	R FULLMER	NAG 5 9290	504
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41	VA POLYTECH INST & ST UNIV	E J SIOCHI	LARC	T LONG	NGT 1 01033	532
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41	VA POLYTECH INST & ST UNIV	I S RAJU	LARC	R K KAPAUIA	NAG 1 2286	529
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41	WASHINGTON UNIV - ST	A NURRIDIN	GSFC	SPOSATO	NGT 5 50023	336
41	WASHINGTON UNIV - ST	A NURRIDIN	GSFC	W B MCKINNON	NGT 5 50063	336
41	WASHINGTON UNIV - ST	B MERRITT	GSFC	P HINK	NAG 5 5215	333
41	WASHINGTON UNIV - ST	R W CLAUS	GRC	D L LEVINE	NCC 3 777	336
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41	WESTERN MICHIGAN UNIV	J N MOSS	LARC	W W LIOU	NAG 1 01023	320
41	WESTERN MICHIGAN UNIV	S CHANG	GRC	W W LIOU	NAG 3 2529	320
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41	WICHITA STATE UNIV	W E RICKS	LARC	H WILLIFORD	NCA 1 106	230
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42	BOWIE STATE UNIV	M S BURRELL	GSFC	N T WAKIM	NAG 5 9544	239
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42	UNIV OF COLORADO - BOULDER	M S LAKE	LARC	L D PETERSON	NCC 1 281	139
42	UNIV OF COLORADO - BOULDER	M S LAKE	LARC	M M MIKULAS	NAG 1 2068	123
42	UNIV OF COLORADO - BOULDER	V GRIFFIN	GSFC	G ROTTMAN	NAS 5 97045	138
42	UNIV OF COLORADO - BOULDER	W K BELVIN	LARC	M M MIKULAS	NCC 1 01046	139
42	UNIV OF COLORADO - BOULDER	W K BELVIN	LARC	T O MANN	NGT 1 01023	140
42	UNIV OF CONNECTICUT	W K BELVIN	LARC	K D MURPHY	NGT 1 01025	145
42	UNIV OF DENVER	G D OLSEN	MSFC	J E WILLIAMSEN	NCC 8 176	144
42	UNIV OF FLORIDA	J POE	MSFC	J R THORNTON	NAS 8 97110	174
42	UNIV OF FLORIDA	L W GRIFFIN	MSFC	W SHYY	NAG 8 1729	174
42	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	D G SICKKOREZ	JSC	S R WHITE	NGT 9 33	214
42	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	M C HICKS	GRC	J D BUCKMASTER	NAG 3 2516	210
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42	UNIV OF MARYLAND - COLLEGE PARK	D E JAMISON	GSFC	D R BASILI	NCC 5 464	270
42	UNIV OF MARYLAND - COLLEGE PARK	G ASRAR	GSFC	T MEAD	NGT 5 60	271
42	UNIV OF MARYLAND - COLLEGE PARK	M RHEE	GSFC	M J LEWIS	NAG 5 8583	261
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42	UNIV OF MICHIGAN - ANN ARBOR	F R CHANG-DIAZ	JSC	B E GILCHRIST	NAG 9 1167	316
42	UNIV OF MICHIGAN - ANN ARBOR	G SOULAS	GRC	I D BOYD	NAG 3 2497	311
42	UNIV OF MICHIGAN - ANN ARBOR	J L BALATICE	MSFC	B GILCHRIST	NAS 8 99128	317
42	UNIV OF MICHIGAN - ANN ARBOR	M W CASTLEMANN	MSFC	G E GILCHRIST	NAS 8 99127	317
42	UNIV OF MISSOURI - COLUMBIA	J M HANSON	MSFC	C A KLUEVER	NAG 8 1741	330
42	UNIV OF NEW MEXICO-ALBUQUERQUE	G THOMAS	JSC	J BRINKER	NAG 9 1324	366
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42	UNIV OF SOUTH FLORIDA	M L BLOSSER	LARC	R T HAFTA	NAG 1 01046	178
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42	UNIV OF TEXAS - AUSTIN	E L CHRISTIANSEN	JSC	E P FAHRENTHOLD	NAG 9 1244	496
42	UNIV OF TEXAS - AUSTIN	E M BRADEN	JSC	R BISHOP	NAG 9 1225	496
42	UNIV OF TEXAS - AUSTIN	F E LUMPKIN	JSC	D B GOLDSTEIN	NAG 9 1117	496
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42	UNIV OF TEXAS - AUSTIN	T CRANE	JSC	R BISHOP	NAG 9 1323	496
42	UNIV OF WASHINGTON	E P SMITH	GSFC	B MARGON	NAG 5 9324	538
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42	UNIV OF WISCONSIN - MADISON	R SPAGNUOLO	GSFC	J W PERCIVAL	NAG 5 7026	549
42	UTAH STATE UNIV	M D VANEK	LARC	J ULWICK	NAS 1 20467	505
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43	CLARK ATLANTA UNIV	R LAWRENCE	GRC	D OKHIO	NAG 3 2292	180
43	CLEVELAND STATE UNIV	S R LEVINE	GRC	J MASNOVI	NCC 3 759	411
43	CORNELL UNIV	B S SINGH	GRC	P H STEEN	NAG 3 1854	375
43	CORNELL UNIV	H K NAHRA	GRC	D KOCH	NGT 3 52362	381
43	CORNELL UNIV	P DOTY	MSFC	N ZABARAS	NAG 8 1671	380
43	FISK UNIV	G HUNTER	GRC	D E COLLINS	NAG 3 2298	467
43	FLORIDA STATE UNIV	P H RHODES	MSFC	B R LOCKE	NAG 8 1163	168
43	GEORGETOWN UNIV	D RISIN	JSC	J M JESSUP	NAG 9 1366	154
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43	HARVARD UNIV	S D BAI	MSFC	I F SILVERA	NAG 8 1822	285
43	HOWARD UNIV	H L BELVIN	LARC	W E COLLINS	NAG 1 2019	154
43	JOHNS HOPKINS UNIV	B S SINGH	GRC	K J STEBE	NAG 3 1923	241
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45	AUBURN UNIV	F B BECK	LARC	M L WALLER	NGT 1 52205	4
45	AUBURN UNIV	S NASH-STEVENSON	MSFC	A S HODEL	NGT 8 52904	4
45	BRIGHAM YOUNG UNIV	R D SAKAHARA	DFRC	M D RICE	NAG 4 215	501
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45	UNIV OF MICHIGAN - ANN ARBOR	S NASH-STEVENSON	MSFC	B GILCHRIST	NGT 8 52889	319
45	UNIV OF NEBRASKA - LINCOLN	M L BLOXXER	LARC	K D COLE	NAG 1 01087	340
45	UNIV OF NEW MEXICO-ALBUQUERQUE	K KRISHEN	JSC	M SHAHINPOOR	NAG 9 995	366
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45	UNIV OF ROCHESTER	C R MCCREIGHT	ARC	W J FORREST	NAG 2 1280	393
45	UNIV OF SOUTH FLORIDA	A HEPP	GRC	D MOREL	NAG 3 2614	178
45	UNIV OF SOUTHERN CALIFORNIA	J POUCH	GRC	A LEVI	NAG 3 2559	115
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45	UNIV OF TEXAS - AUSTIN	F ADAMS	KSC	R ZOWARKA	NAG10 288	496
45	UNIV OF TEXAS - EL PASO	A HEPP	GRC	G B LUSH	NAG 3 2303	499
45	UNIV OF TEXAS - EL PASO	LOWRY	ARC	P J TELLER	NAG 2 1138	499
45	UNIV OF TOLEDO	G E PONCHAK	GRC	V J KAPOOR	NCC 3 881	427
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45	UNIV OF TOLEDO	R L PATTERSON	GRC	V J KAPOOR	NAG 3 2565	425
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45	UNIV OF VIRGINIA	G MUCKLOW	GSFC	T CROWE	NAG 5 8663	524
45	UNIV OF WEST FLORIDA	A R GROSS	HQ	D STILL	NAG 2 1332	180
45	VA POLYTECH INST & ST UNIV	R S ROGOWSKI	LARC	A WANG	NAG 1 01018	529
45	VANDERBILT UNIV	G A SOFFEN	GSFC	R D SCHRIMPF	NGT 5 105	473
45	VANDERBILT UNIV	M M GATES	GSFC	L MASSENGILL	NAG 5 7103	472
45	VIRGINIA COMMONWEALTH UNIV	Q A SHAMS	LARC	J H TUCKER	NAG 1 01042	533
45	WAYNE STATE UNIV	D BRINKER	GRC	P WOODYARD	NAG 3 2180	319
45	WRIGHT STATE UNIV	J FREEMAN	GRC	D C LOOK	NAG 3 2637	428
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46	ALABAMA A&M UNIV	A CHOW	MSFC	Z T DENG	NAG 8 1804	2
46	ALABAMA A&M UNIV	G MYERS	MSFC	A SHARMA	NAG 8 1614	1
46	AUBURN UNIV	J F DOWDY	MSFC	G T FLFLOWERS	NGT 8 52851	4
46	AUBURN UNIV	J F DOWDY	MSFC	P D JONES	NGT 8 52870	4
46	AUBURN UNIV	J TRUDELL	GRC	D GOWAYED	NAG 3 2597	3
46	AUBURN UNIV	K R SACKSTEDER	GRC	D W MACKOWSKI	NCC 3 864	3
46	BRIGHAM YOUNG UNIV	J DOWDY	MSFC	R DAINES	NGT 8 52877	502
46	CALIFORNIA INST OF TECH	F P CHIARAMONTE	GRC	J F BRADY	NAG 3 2166	42
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46	CARNEGIE - MELLON UNIV	C FARMER	JSC	R SIMMONS	NAG 9 1327	438
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46	CASE WESTERN RESERVE UNIV	C DELLACORTE	GRC	J M PRAHL	NCC 3 743	408
46	CASE WESTERN RESERVE UNIV	F J MONTEGANI	GRC	J R KADAMBI	NGT 3 52374	409
46	CASE WESTERN RESERVE UNIV	J C DUH	GRC	I D ALEXANDER	NAG 3 2160	406
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46	CASE WESTERN RESERVE UNIV	P DUNLAP	GRC	J D CAWLEY	NCC 3 898	409
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46	CITY UNIV OF NY CITY COLLEGE	F D CHIARAMONTE	GRC	A ACRIVOS	NCC 3 607	368
46	CLARKSON UNIV	J DOWDY	MSFC	G AHMADI	NGT 8 52849	369
46	CLARKSON UNIV	J F DOWDY	MSFC	G AHMADI	NGT 8 52853	369
46	CLEVELAND STATE UNIV	J MANDERSCHIED	GRC	S F DUFFY	NCC 3 761	411
46	CLEVELAND STATE UNIV	L THIEMENE	GRC	D IBRAHIM	NAG 3 2482	410
46	COLORADO SCH OF MINES	B SINGH	GRC	M NAKAGAWA	NAG 3 1970	119
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46	CORNELL UNIV	J C NEWMAN, JR.	LARC	A R INGRAFFEA	NAG 1 2069	375
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46	PENN STATE UNIV	W ANDERSON	MSFC	R J SANTORO	NAG 8 1732	449
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46	RENSSELAER POLYTECH INST	J W LEHNER	MSFC	L N MYRABO	NAG 8 1795	385
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46	STATE UNIV OF NY - BUFFALO	J P DRUMMOND	LARC	P GIVI	NAG 1 2238	387
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46	UNIV OF ARIZONA	J E FINN	ARC	K R SRIDHAR	NCC 2 5357	38
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46	UNIV OF VIRGINIA	H ROSS	GRC	H CHELLIAH	NAG 3 1928	522
46	UNIV OF VIRGINIA	T GLASGOW	GRC	H HAJ-HARIRI	NAG 3 1916	522
46	UNIV OF WISCONSIN - MADISON	M L TINKER	MSFC	D C KAMMER	NAG 8 1651	552
46	UNIV OF WISCONSIN - MADISON	M L TINKER	MSFC	D C KAMMER	NAG 8 1820	553
46	VA POLYTECH INST & ST UNIV	C H GERHOLD	LARC	R A BURDISSO	NAG 1 2325	529
46	VA POLYTECH INST & ST UNIV	D L PALUMBO	LARC	C R FULLER	NAG 1 2158	528
46	VA POLYTECH INST & ST UNIV	D L PALUMBO	LARC	M AHMADIAN	NGT 1 01038	532
46	VA POLYTECH INST & ST UNIV	G C HORNER	LARC	D J LEO	NAG 1 2190	528
46	VA POLYTECH INST & ST UNIV	K J PRIESTLEY	LARC	A M SMITH	NGT 1 52248	532
46	VA POLYTECH INST & ST UNIV	L G HORTA	LARC	R KAPANIA	NAG 1 2277	528
46	VA POLYTECH INST & ST UNIV	O MEHMED	GRC	W NG	NAG 3 2098	530
46	VA POLYTECH INST & ST UNIV	S NASH-STEVENSON	MSFC	D J INMAN	NGT 8 52909	532
46	VANDERBILT UNIV	G C HORNER	LARC	A COX	NGT 1 52227	473
46	VANDERBILT UNIV	J F DOWDY	MSFC	M GOLDFARB	NGT 8 52839	473
46	VANDERBILT UNIV	J F DOWDY	MSFC	M GOLDFARB	NGT 8 52857	473
46	VANDERBILT UNIV	J F DOWDY	MSFC	M GOLDFARB	NGT 8 52859	473
46	VANDERBILT UNIV	S NASH-STEVENSON	MSFC	R A WELLER	NGT 8 52905	473
46	VANDERBILT UNIV	S NASH-STEVENSON	MSFC	R W PITZ	NGT 8 52910	474
46	WASHINGTON UNIV - ST	C TUNG	ARC	D A PETERS	NAG 2 1457	332
46	YALE UNIV	K J WEILAND	GRC	M B LONG	NAG 3 1939	146
47	ALABAMA A&M UNIV	B PENN	MSFC	M D AGGARWAL	NAG 8 1623	2
47	ALL RUSSIAN SCI RES INST VIAM	R K BIRD	LARC	J FRIDLANDER	NCC 1 353	559
47	AUBURN UNIV	R D NOEBE	GRC	W F GALE	NAG 3 2120	2
47	AUBURN UNIV	S LAMBING	MSFC	R A OVERFELT	NCC 8 128	3
47	CARNEGIE - MELLON UNIV	D L BRITTON	GRC	P N KUMTA	NAG 3 2640	436
47	CARNEGIE - MELLON UNIV	H SHAW	GSFC	P KUMTA	NAG 5 9242	437
47	CASE WESTERN RESERVE UNIV	A CHAIT	GRC	D H MATTHIESEN	NCC 3 681	408
47	CASE WESTERN RESERVE UNIV	A CHAIT	GRC	P L TAYLOR	NCC 3 701	408
47	CASE WESTERN RESERVE UNIV	D L KIETRICH	GRC	J S T	NAG 3 2331	406
47	CASE WESTERN RESERVE UNIV	J A DICARLO	GRC	A SAYIR	NCC 3 372	407
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47	CASE WESTERN RESERVE UNIV	M NATHAL	GRC	D L ELLIS	NCC 3 830	408

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47	CASE WESTERN RESERVE UNIV	S C FARMER	GRC	S SAYIR	NCC 3 850	408
47	CHRISTOPHER NEWPORT UNIV	M NAMKUNG	LARC	R SELIM	NAG 1 01070	507
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47	CLEMSON UNIV - CLEMSON	H C SHAW	GSFC	D L CARROLL	NAG 5 9459	463
47	CLEVELAND STATE UNIV	H C DE GROH	GRC	D N TEWARI	NCC 3 631	411
47	CLEVELAND STATE UNIV	H E KAUTZ	GRC	J HEMANN	NAG 3 2514	410
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47	CLEVELAND STATE UNIV	L A GREENBAUER-SENG	GRC	S TEWARI	NCC 3 862	411
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47	CLEVELAND STATE UNIV	M NATHAL	GRC	S N TEWARI	NCC 3 749	411
47	COLLEGE OF WILLIAM AND MARY	J W CONNELL	LARC	R A ORWOLL	NGT 1 52200	508
47	COLLEGE OF WILLIAM AND MARY	M W SMITH	LARC	B C HOLLOWAY	NCC 1 01056	508
47	CORNELL UNIV	J C NEWMAN	LARC	R PETTIT	NAG 1 2268	375
47	CORNELL UNIV	M MEADOR	GRC	D P GIANNELIS	NCC 3 832	381
47	CORNELL UNIV	P DOTY	MSFC	A J SIEVERS	NAG 8 1666	380
47	DREXEL UNIV	J K SUTTER	GRC	D KNIGHT	NCC 3 825	441
47	DREXEL UNIV	M A MEADOR	GRC	D R PALMESE	NCC 3 835	441
47	DUKE UNIV	E NELSON	GRC	R BEHRINGER	NAG 3 1917	394
47	DUKE UNIV	M TINKER	MSFC	L N VIRGIN	NAG 8 1715	395
47	FLORIDA STATE UNIV	A CHAIT	GRC	J VINALS	NAG 3 1885	166
47	GEORGIA INST OF TECH	A NETTLES	MSFC	W S JOHNSON	NAG 8 1819	185
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47	HARVARD UNIV	P DOTY	MSFC	F A SPAEPEN	NAG 8 1680	285
47	HOPE COLLEGE	T S GATES	LARC	J PAWLOSKE	NAG 1 01060	306
47	IOWA STATE UNIV	A JACKSON	MSFC	R K TRIVETI	NAG 8 1681	223
47	KENT STATE UNIV	M A MEADOR	GRC	R J TWIEG	NCC 3 721	413
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47	MASSACHUSETTS INST OF TECH	J F DOWDY	MSFC	A F WITT	NGT 8 52860	300
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47	MICHIGAN STATE UNIV	J M BENAVIDES	GSFC	V AYRES	NAG 5 8893	307
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47	MICHIGAN STATE UNIV	P DOTY	MSFC	A BERNARD	NAG 8 1690	308
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47	MORGAN STATE UNIV	E ORDONEZ	MSFC	A KENNEDY	NAG 8 1847	254
47	NEW JERSEY INST OF TECH	E S WEISER	LARC	M JAFFE	NAG 1 01110	350
47	NORFOLK STATE UNIV	E T PRIOR	LARC	J JACOBS	NAG 1 2125	514
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47	NORTH CAROLINA A&T STATE UNIV	D R AMBUR	LARC	K N SHIVAKUMAR	NAG 1 1956	397
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47	NORTH CAROLINA A&T STATE UNIV	R BHATT	GRC	J SANKAR	NAS 3 96055	398
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47	NORTH CAROLINA STATE UNIV	J S HARRISON	LARC	R C SMITH	NAG 1 2287	399
47	NORTHWESTERN UNIV	A CHART	GRC	S H DAVIS	NAG 3 1737	201
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47	NORTHWESTERN UNIV	T K GLASGOW	GRC	P W VOORHEES	NAG 3 1823	201
47	NORTHWESTERN UNIV	T S GATES	LARC	L C BRINSON	NCC 1 01002	203
47	NORTHWESTERN UNIV	T S GATES	LARC	R S RUOFF	NAG 1 2313	201
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47	OLD DOMINION UNIV	K M TAMINGER	LARC	K NAGARATHNAM	NCC 1 403	519
47	OLD DOMINION UNIV	T HOU	LARC	R B PIPES	NCC 1 363	518
47	OLD DOMINION UNIV	T S GATES	LARC	R B PIPES	NAG 1 01043	517
47	PENN STATE UNIV	D T ELLERBY	ARC	J R HELLMANN	NAG 2 1524	443
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47	RENSSELAER POLYTECH INST	E A WINSA	GRC	M E GLICKSMAN	NAS 3 25368	385
47	RENSSELAER POLYTECH INST	P M DOTY	MSFC	M E GLICKSMAN	NAG 8 1696	385
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47	SAINT LOUIS UNIV	C DELLACORTE	GRC	P A BENOY	NAG 3 2642	329
47	TEXAS A&M UNIV	M R EFFINGER	MSFC	O O OCHOA	NAG 8 1802	482
47	TUFTS UNIV	T K GLASGOW	GRC	C ROGERS	NCC 3 479	301
47	TUSKEGEE UNIV	M J VERILLE	GRC	A HAQUE	NCC 3 591	5
47	TUSKEGEE UNIV	R ROGOSKI	LARC	J N BHUYAN	NAG 1 1865	4
47	UNIV HOUSTON-HOUSTON	J C BRASUNAS	GSFC	C	NAG 5 8126	486
47	UNIV HOUSTON-HOUSTON	S J LAMBING	MSFC	A IGNATIEV	NCC 8 127	487
47	UNIV OF MINN	P M DOTY	MSFC	J J DERBY	NAG 8 1676	324
47	UNIV OF AKRON	A CHAIT	GRC	G W YOUNG	NCC 3 716	421
47	UNIV OF AKRON	C CHUANG	GRC	F W HARRIS	NAG 3 2390	420
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47	UNIV OF AKRON	M A MEADOR	GRC	F N KELLEY	NAG 3 2566	421
47	UNIV OF AKRON	M A MEADOR	GRC	R K EBY	NCC 3 682	421
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47	UNIV OF ARIZONA	J CONNOLLY	JSC	K R SRIDHAR	NAG 9 1229	37
47	UNIV OF ARKANSAS - LITTLE ROCK	R TRAVIS	SSC	K MAXWELL	NGT13 52724	41
47	UNIV OF CALIFORNIA - DAVIS	D R AMBUR	LARC	L W REHFELD	NAG 1 01116	79
47	UNIV OF CALIFORNIA - DAVIS	M NATHAL	GRC	J GIBELING	NCC 3 859	83
47	UNIV OF CALIFORNIA - LOS ANGELES	R G BRYANT	LARC	G P CARMEN	NGT 1 52240	95
47	UNIV OF CALIFORNIA - LOS ANGELES	R ROGERS	GRC	S PUTTERMAN	NAG 3 1889	88
47	UNIV OF COLORADO - BOULDER	B V GUYNES	MSFC	S STURE	NAS 8 38779	139
47	UNIV OF FLORIDA	D E LUECK	KSC	E D WACHSMAN	NAG10 303	174
47	UNIV OF FLORIDA	D R AMBUR	LARC	B V SANKAR	NAG 1 01088	172
47	UNIV OF FLORIDA	M BASSIGNANI	KSC	E D WACHSMAN	NAG10 274	174
47	UNIV OF FLORIDA	P R DOTY	MSFC	T J ANDERSON	NAG 8 1243	173
47	UNIV OF FLORIDA	W J EMRICH, JR.	MSFC	S ANGHZIE	NAG 8 1251	173
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47	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	S J HALES	LARC	R S AVERBACK	NAG 1 01035	209
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47	UNIV OF MICHIGAN - ANN ARBOR	M P NEMETH	LARC	A P WAAS	NCC 1 01050	317
47	UNIV OF MISSOURI - ROLLA	T S GATES	LARC	S ROY	NAG 1 01050	331
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47	UNIV OF PENNSYLVANIA	H SHAW	GSFC	D LUZZI	NAG 5 9241	453
47	UNIV OF SOUTH CAROLINA-COLUMBIA	R A HAFLEY	LARC	A P REYNOLDS	NAG 1 2108	465
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47	UNIV OF TEXAS - AUSTIN	K MCLALLIN	GRC	R THOMPSON	NAG 3 2602	492
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47	UNIV OF TEXAS - EL PASO	J DING	MSFC	J MCCLURE	NCC 8 137	500
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47	UNIV OF UTAH	B MCKISSOCK	GRC	G D SMITH	NAG 3 2624	502
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47	UNIV OF VIRGINIA	M P NEMETH	LARC	C O HORGAN	NAG 1 01022	522
47	UNIV OF VIRGINIA	M S DOMACK	LARC	D A LITTLE	NAG 1 2282	522
47	UNIV OF VIRGINIA	R PIASCIK	LARC	G SHIFLET	NAG 1 2321	522

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47	WICHITA STATE UNIV	A C NUNES	MSFC	G E TALIA	NCC 8 202	230
47	WINONA STATE UNIV	T S GATES	LARC	B ABDEL-MAGID	NAG 1 01054	326
49	ALABAMA A&M UNIV	W LOVE	MSFC	D ILA	NAG 8 1655	2
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49	AUBURN UNIV	J HOWELL	MSFC	S A MERRYMAN	NAG 8 1728	3
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49	UNIV OF ILLINOIS - CHICAGO CIRCLE	S L OLSON	GRC	I K PURI	NCC 3 694	208
49	UNIV OF ILLINOIS - CHICAGO CIRCLE	W B DUVAL	GRC	D M MEGARIDIS	NAG 3 2456	208
49	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	B MCGILL	MSFC	R H DODDS	NAG 8 1751	213
49	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	F J MONTEGANI	GRC	M BRAGGS	NGT 3 52357	214
49	UNIV OF IOWA	C E NIEDERHAUS	GRC	D S MARSHALL	NAG 3 2368	225
49	UNIV OF IOWA	D P STOCKER	GRC	D CHEN	NCC 3 666	227
49	UNIV OF IOWA	R B ROGERS	GRC	A BHATTACHARJEE	NAG 3 2375	225
49	UNIV OF KENTUCKY	C H ROLLINS	LARC	V SINGH	NAG 1 01036	230
49	UNIV OF KENTUCKY	K R SACKSTEDER	GRC	K SAITO	NAG 3 2567	231
49	UNIV OF MARYLAND - COLLEGE PARK	C CULBERT	JSC	D AKIN	NAG 9 1290	268
49	UNIV OF MARYLAND - COLLEGE PARK	C J CULBERT	JSC	D AKIN	NAG 9 1116	268
49	UNIV OF MARYLAND - COLLEGE PARK	D STOCKER	GRC	A K GUPTA	NCC 3 686	269
49	UNIV OF MARYLAND - COLLEGE PARK	F MONTEGANI	GRC	D C WILSON JR	NGT 3 52367	271
49	UNIV OF MARYLAND - COLLEGE PARK	F P CHIARAMONTE	GRC	D DEANE	NAG 3 2479	256
49	UNIV OF MARYLAND - COLLEGE PARK	G A RUFF	GRC	J L TORERO	NAG 3 2568	256
49	UNIV OF MARYLAND - COLLEGE PARK	J B MCQUILLEN	GRC	J KIM	NAG 3 2206	256
49	UNIV OF MARYLAND - COLLEGE PARK	J B MCQUILLEN	GRC	J KIM	NCC 3 783	269
49	UNIV OF MARYLAND - COLLEGE PARK	J MCQUILLEN	GRC	P KIM	NAG 3 2228	256
49	UNIV OF MARYLAND - COLLEGE PARK	R AFZAL	GSFC	D CHRISTOU	NCC 5 238	270
49	UNIV OF MARYLAND - COLLEGE PARK	S OLSON	GRC	T KASHIWAGI	NCC 3 919	269
49	UNIV OF MARYLAND - EASTERN SHORE	D MENCHAN	WFF	M WILSON	NAG 5 8501	272
49	UNIV OF MASSACHUSETTS - AMHERST	P DOTY	MSFC	M TSAPATIS	NAG 8 1697	303
49	UNIV OF MASSACHUSETTS - AMHERST	P DOTY	MSFC	T P RUSSELL	NAG 8 1694	303
49	UNIV OF MASSACHUSETTS	H DEGROH	GRC	D CHARMCHI	NAG 3 2426	301
49	UNIV OF MICHIGAN - ANN ARBOR	A GONZALEZ	GRC	D E SCOTT	NAG 3 2082	310
49	UNIV OF MICHIGAN - ANN ARBOR	C LEK	GRC	M PERLIN	NAG 3 2406	311
49	UNIV OF MICHIGAN - ANN ARBOR	D F CHAO	GRC	G TRYGGVASON	NAG 3 2332	310
49	UNIV OF MICHIGAN - ANN ARBOR	E S NELSON	GRC	M KAVIANY	NCC 3 723	317
49	UNIV OF MICHIGAN - ANN ARBOR	F J MONTEGANI	GRC	A D GALLIMORE	NGT 3 52349	318
49	UNIV OF MICHIGAN - ANN ARBOR	F J MONTEGANI	GRC	A GALLIMORE	NGT 3 52348	318
49	UNIV OF MICHIGAN - ANN ARBOR	F J MONTEGANI	GRC	W J DAHM	NGT 3 52377	318
49	UNIV OF MICHIGAN - ANN ARBOR	F P CHIARAMONTE	GRC	M D SOLOMON	NAG 3 2356	311
49	UNIV OF MICHIGAN - ANN ARBOR	J E BROOKER	GRC	J F DRISCOLL	NCC 3 656	317
49	UNIV OF MICHIGAN - ANN ARBOR	K R SACKSTEDER	GRC	W DAHM	NCC 3 663	317
49	UNIV OF MICHIGAN - ANN ARBOR	K SACKSTEDER	GRC	G M FAETH	NCC 3 661	317
49	UNIV OF MICHIGAN - ANN ARBOR	O MEHMED	GRC	C PIERRE	NAG 3 2346	310
49	UNIV OF MICHIGAN - ANN ARBOR	R S JANKOVSKY	GRC	A D GALLIMORE	NAG 3 2307	310
49	UNIV OF MICHIGAN - ANN ARBOR	S NASH-STEVENSON	MSFC	T KAMMASH	NGT 8 52888	319
49	UNIV OF MISSOURI - COLUMBIA	G A THOMAS	JSC	S NAIR	NAG 9 1210	330
49	UNIV OF MISSOURI - COLUMBIA	P YEH	GSFC	C CHEN	NAG 5 10720	330

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49	UNIV OF NEBRASKA - LINCOLN	J JOCHIM	JSC	S FARRITOR	NAG 9 1137	340
49	UNIV OF NEBRASKA - LINCOLN	P YEH	GSFC	K SAYOOD	NAG 5 8677	340
49	UNIV OF NEBRASKA - LINCOLN	P YEH	GSFC	K SAYOOD	NAG 5 9834	340
49	UNIV OF NEBRASKA - LINCOLN	P YEH	GSFC	K SAYOOD	NAG 5 10408	340
49	UNIV OF NEW MEXICO-ALBUQUERQUE	J BOYCE	GSFC	G DONOHOE	NAG 5 9469	365
49	UNIV OF NEW MEXICO-ALBUQUERQUE	P YEP	GSFC	G K MAKI	NAG 5 10960	366
49	UNIV OF NEW MEXICO-ALBUQUERQUE	W H MILLER	GSFC	G K MAKI	NAG 5 9993	365
49	UNIV OF NEW MEXICO-ALBUQUERQUE	W H MILLER	GSFC	G K MAKI	NAG 5 10337	365
49	UNIV OF NEW MEXICO-ALBUQUERQUE	W H MILLER	GSFC	G MAKI	NAG 5 8454	365
49	UNIV OF NEW MEXICO-ALBUQUERQUE	W H MILLER	GSFC	G MAKI	NAG 5 9152	365
49	UNIV OF NEW MEXICO-ALBUQUERQUE	W H MILLER	GSFC	G MAKI	NAG 5 9402	365
49	UNIV OF NEW MEXICO-ALBUQUERQUE	W H MILLER	GSFC	G W DONOHOE	NAG 5 9704	365
49	UNIV OF NEW ORLEANS	F P CHIARAMONTEH	GRC	J HEGSETH	NAG 3 2447	237
49	UNIV OF NEW ORLEANS	J VICKERS	MSFC	J N CRISP	NCC 8 223	237
49	UNIV OF NEW ORLEANS	R TRAVIS	SSC	R SAXTON	NGT13 52740	238
49	UNIV OF NOTRE DAME	F P CHIARMONTE	GRC	D A GLAZIER	NAG 3 2366	221
49	UNIV OF NOTRE DAME	J B MCGUILLEN	GRC	M J MCCREADY	NCC 3 466	222
49	UNIV OF NOTRE DAME	J H AGUI	GRC	D BARBASI	NAG 3 2384	221
49	UNIV OF NOTRE DAME	J L ROSEY	LARC	J E RENAUD	NAG 1 2240	220
49	UNIV OF NOTRE DAME	P YEH	GSFC	D J COSTELLO	NAG 5 10503	221
49	UNIV OF NOTRE DAME	R FRIEDMAN	GRC	A VARMA	NAG 3 2213	221
49	UNIV OF NOTRE DAME	W H MILLER	GSFC	D J COSTELLO	NAG 5 8355	221
49	UNIV OF OKLAHOMA - NORMAN	F P CHIARAMONTE	GRC	A K AGRAWAI	NAG 3 2388	429
49	UNIV OF OKLAHOMA - NORMAN	H C DEGROH	GRC	D C LAI	NCC 3 791	430
49	UNIV OF OKLAHOMA - NORMAN	J B MCQUILLEN	GRC	D N PARTHASAEATHY	NCC 3 787	430
49	UNIV OF PENNSYLVANIA	D W GRIFFIN	GRC	D A HAMMER	NAG 3 2417	452
49	UNIV OF PITTSBURGH	F P CHIARAMONTE	GRC	D WI	NAG 3 2396	454
49	UNIV OF RHODE ISLAND	D A JACQUIN	GRC	A BOSE	NAG 3 2229	460
49	UNIV OF RHODE ISLAND	H C DEGROH	GRC	D FAGHRI	NAG 3 2434	460
49	UNIV OF ROCHESTER	D GRIFFIN	GRC	K MARSHALL	NAG 3 2348	393
49	UNIV OF SOUTHERN CALIFORNIA	D L URBAN	GRC	H PEARLMAN	NCC 3 871	119
49	UNIV OF SOUTHERN CALIFORNIA	F P CHARIAMONTE	GRC	D MAXWORTHY	NAG 3 2478	115
49	UNIV OF SOUTHERN CALIFORNIA	J E BROOKER	GRC	H PEARLMAN	NCC 3 854	119
49	UNIV OF SOUTHERN CALIFORNIA	K R SACKSTEDER	GRC	F N EGOLFOPOLUOS	NCC 3 678	118
49	UNIV OF SOUTHERN CALIFORNIA	K R SACKSTEDER	GRC	K OHSAKA	NCC 3 841	119
49	UNIV OF SOUTHERN CALIFORNIA	K R SACKSTEDER	GRC	P N EGOLFOPOULOS	NCC 3 834	118
49	UNIV OF SOUTHERN CALIFORNIA	M DUTTA	GSFC	G SHIFLETT	NAG 5 10399	117
49	UNIV OF SOUTHERN CALIFORNIA	M M HASAN	GRC	K OHSAKA	NCC 3 827	118
49	UNIV OF SOUTHERN CALIFORNIA	S A GOKOGLU	GRC	P D RONNEY	NCC 3 671	118
49	UNIV OF SOUTHERN MISSISSIPPI	P DOTY	MSFC	J WHITEHEAD	NAG 8 1684	329
49	UNIV OF TENN SPACE INST-TULLAHOMA	M E OLSEN	ARC	S VENKATESWARAN	NCC 2 5413	472
49	UNIV OF TEXAS - AUSTIN	K MCLALLIN	GRC	J BENO	NAS 3 00119	497
49	UNIV OF TEXAS - AUSTIN	K SACKSTEDER	GRC	N T CLEMENS	NCC 3 677	497
49	UNIV OF TEXAS - AUSTIN	P GEORGE	GRC	W A WALLS	NAS 3 00135	497
49	UNIV OF TEXAS - AUSTIN	P S GREENBERG	GRC	P L VARGHESE	NAG 3 2240	492
49	UNIV OF TEXAS - DALLAS	P H YEH	GSFC	J P FONSEKA	NAG 5 9476	498
49	UNIV OF TEXAS AT BROWNSVILLE	L ARMENDARIZ	JSC	W WELLS	NAG 9 1064	501
49	UNIV OF TEXAS AT SAN ANTONIO	F SAFIE	MSFC	R MANTUEFEL	NAG 8 1720	501
49	UNIV OF TOLEDO	D C JANETZKE	GRC	T G KEITH	NCC 3 719	427
49	UNIV OF TOLEDO	D JANETZKE	GRC	T KEITH	NCC 3 774	427
49	UNIV OF TOLEDO	D MONTEGANI	GRC	D J KAPOOR	NGT 3 52342	428
49	UNIV OF TOLEDO	F J MONTEGANI	GRC	V J KAPOOR	NGT 3 52375	428
49	UNIV OF TOLEDO	P MURTHY	GRC	T G KEITH	NCC 3 524	427
49	UNIV OF TURABO	M MATEU	GSFC	A COURTIER	NAG 5 10240	558
49	UNIV OF TURABO	M MATEU	GSFC	B A MARRERO	NGT 5 90064	558
49	UNIV OF UTAH	H D ROSS	GRC	D E MELL	NAG 3 2403	502
49	UNIV OF UTAH	H D ROSS	GRC	W MELL	NAG 3 2548	502
49	UNIV OF VIRGINIA	H A ROELANT	LARC	J BECHTA-DUGAN	NAS 1 99098	526
49	UNIV OF VIRGINIA	L E JONES	LARC	R W KENT	NGT 1 52244	527
49	UNIV OF VIRGINIA	S M ARNOLD	GRC	M J PINDERA	NAG 3 2359	522
49	UNIV OF VIRGINIA	S M ARNOLD	GRC	M J PINDERA	NAG 3 2411	523
49	UNIV OF WASHINGTON	G MEYER	ARC	S DEVASIA	NAG 2 1450	534
49	UNIV OF WASHINGTON	J E BROOKER	GRC	D RILEY	NAG 3 2517	534
49	UNIV OF WASHINGTON	N R HALL	GRC	T J MATULA	NAG 3 2379	534
49	UNIV OF WASHINGTON	W J STLOUD	LARC	K Y LIN	NAG 1 2296	534

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49	UNIV OF WISCONSIN - MADISON	J F DOWDY	MSFC	J F CRUISE	NGT 8 52865	555
49	VA POLYTECH INST & ST UNIV	D L PALOMBO	LARC	M AHMODEON	NGT 1 52246	532
49	VA POLYTECH INST & ST UNIV	J E MAY	GRC	U VANDSBURGER	NAG 3 2093	530
49	VA POLYTECH INST & ST UNIV	J M SEATON	LARC	C E NUNNALLY	NAG 1 01021	529
49	VA POLYTECH INST & ST UNIV	R S PIASCLK	LARC	J A NEWMAN	NGT 1 52174	532
49	VANDERBILT UNIV	C J CULBERT	JSC	R A PETERS II	NGT 9 52	474
49	VANDERBILT UNIV	J BARTH	GSFC	L MASSENGILL	NAG 5 9828	472
49	VANDERBILT UNIV	J F DOWDY	MSFC	S MAHADEVAN	NGT 8 52852	473
49	VANDERBILT UNIV	R D GREEN	GRC	D LEVAN	NAG 3 2401	472
49	WASHINGTON STATE UNIV	C NIEDERHAUS	GRC	D MARSTON	NAG 3 2378	543
49	WASHINGTON UNIV - ST	D L URBAN	GRC	R L AXELBAUM	NCC 3 697	336
49	WASHINGTON UNIV - ST	L KALUZIENSKI	GSFC	P L HINK	NAG 5 8568	334
49	WASHINGTON UNIV - ST	P S GREENBERG	GRC	D CHEN	NAG 3 2625	332
49	WASHINGTON UNIV - ST	S A GOKOGLE	GRC	R L AXELBAUM	NAG 3 1910	332
49	WAYNE STATE UNIV	G MEYER	ARC	F LIN	NAG 2 1279	319
49	WICHITA STATE UNIV	C BIDWELL	GRC	D PAPADAKIS	NAG 3 2324	230
49	WILBERFORCE UNIV	A F HEPP	GRC	D R BUFFINGER	NAG 3 2301	428
49	WOFFORD COLLEGE	J F DOWDY	MSFC	D M SCOTT	NAG 8 1310	466
49	WORCESTER POLYTECH INST	D F CHAO	GRC	D TRYGGVASON	NAG 3 2545	306
49	WORCESTER POLYTECH INST	D F CHAO	GRC	D TRYGGVASON	NAG 3 2583	306
49	WORCESTER POLYTECH INST	D P STOCKER	GRC	D C HERMANSON	NCC 3 673	306
49	WORCESTER POLYTECH INST	F CHIARAMONTE	GRC	D C HERMANSON	NAG 3 2395	305
49	WORCESTER POLYTECH INST	F P CHIARAMONTE	GRC	D TRYGGVASON	NAG 3 2535	305
49	XAVIER UNIV - LOUISIANA	L RANDOLPH	GSFC	G BAKER	NGT 5 90084	238
49	YALE UNIV	B MOTIL	GRC	D L GRANT	NAG 3 2425	146
49	YALE UNIV	D L URBAN	GRC	M D SMOOKE	NAG 3 2262	146
49	YALE UNIV	F P CHIARAMONTE	GRC	D LOEWENBERG	NAG 3 2477	147
49	YALE UNIV	K SACKSTEDER	GRC	D E ROSNER	NCC 3 691	148
49	YALE UNIV	R ROGERS	GRC	R E APFEL	NAG 3 2377	146
51	ALABAMA A&M UNIV	R C RICHMOND	MSFC	D KALE	NAG 8 1541	1
51	ARIZONA STATE UNIV	B GUYNES	MSFC	J ALLEN	NAG 8 1353	23
51	ARIZONA STATE UNIV	D J DESMARAIS	ARC	F G PICHEL	NCC 2 5411	23
51	ARIZONA STATE UNIV	L ROTHSCHILD	ARC	R E BLAKENSHIP	NGT 2 52284	23
51	ARIZONA STATE UNIV	M A MEYER	GSFC	P KNAUTH	NAG 5 4860	20
51	ARIZONA STATE UNIV	M MEYER	GSFC	D CRONIN	NAG 5 4131	20
51	ARIZONA STATE UNIV	M MEYER	GSFC	J FARMER	NAG 5 9507	22
51	BAYLOR COLLEGE OF MED	C F SAWIN	JSC	B R ALFORD	NCC 9 58	475
51	BAYLOR COLLEGE OF MED	D RISIN	JSC	B YOFE	NAG 9 1361	475
51	BAYLOR COLLEGE OF MED	M M AVERNER	ARC	B B HASHEMI	NAG 2 1357	474
51	BAYLOR COLLEGE OF MED	M M AVERNER	ARC	H J BELLEN	NAG 2 1355	474
51	BAYLOR COLLEGE OF MED	M M AVERNER	ARC	H J BELLEN	NAG 2 1496	474
51	BAYLOR COLLEGE OF MED	N R PELLIS	JSC	A S RAJAN	NAG 8 1583	474
51	BENEDICT COLLEGE	R E GRINDELAND	ARC	L LOWE	NAG 2 1164	461
51	CALIFORNIA INST OF TECH	M A MEYER	GSFC	D YUNG	NAG 5 4022	42
51	CALIFORNIA INST OF TECH	M M AVERNER	ARC	E M DAVIDSON	NAG 2 1368	42
51	CALIFORNIA INST OF TECH	M M AVERNER	ARC	E V ROTHENBERG	NAG 2 1370	42
51	CALIFORNIA INST OF TECH	M M AVERNER	ARC	M BRONNER-FRASER	NAG 2 1346	42
51	CALIFORNIA INST OF TECH	M MEYER	GSFC	G BLAKE	NAG 5 8822	45
51	CASE WESTERN RESERVE UNIV	D REISS-BUBENHEIM	ARC	S J MOORMAN	NCC 2 1204	407
51	CASE WESTERN RESERVE UNIV	M M AVERNER	ARC	S J MOORMAN	NAG 2 1356	405
51	COLORADO STATE UNIV	D F BLAKE	ARC	M CRISWELL	NCC 2 1268	122
51	COLUMBIA UNIV	M M AVRENER	ARC	D J WOLGEMUTH	NAG 2 1345	369
51	CORNELL UNIV	B GUYNES	MSFC	R THORNE	NAG 8 1574	380
51	CORNELL UNIV	R K GLOBUS	ARC	M C VAN DER MEULEN	NCC 2 1201	380
51	CREIGHTON UNIV	M M AVERNER	ARC	B FRITZSCH	NAG 2 1353	340
51	DARTMOUTH COLLEGE	H K HIGGINBOTTAM	MSFC	U J GIBSON	NAG 8 1590	344
51	DARTMOUTH COLLEGE	M M AVERNER	ARC	K PETERSON	NAG 2 1420	343
51	DELAWARE STATE UNIV	D MENCHAN	GSFC	G OFOSU	NAG 5 8240	149
51	DREXEL UNIV	D RISIN	JSC	P LELKE	NCC 9 130	441
51	DREXEL UNIV	H SHAW	GSFC	M A WHEATLEY	NAG 5 11340	440
51	DREXEL UNIV	M M AVERNER	ARC	P I LELKES	NAG 2 1436	440
51	DUKE UNIV	B GUYNES	MSFC	W E KRAUS	NAG 8 1581	395
51	DUKE UNIV	C M WINGET	ARC	P ANDERSON	NAG 2 1002	394
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51	EAST CAROLINA UNIV	A E RONCA	ARC	H W BURDEN	NCC 2 1165	396

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51	FLORIDA INST OF TECH	B GUYNES	MSFC	C HELMSTALTER	NAG 8 1582	165
51	FLORIDA STATE UNIV	M A MEYER	GSFC	D FRIEDMANN	NAG 5 4921	167
51	GEORGIA INST OF TECH	M M AVERNER	ARC	H JO	NAG 2 1431	182
51	HARVARD UNIV	G A SOFFEN	GSFC	C CAVANAUGH	NGT 5 101	285
51	HARVARD UNIV	M A MEYER	GSFC	D D HOLLAND	NAG 5 4174	283
51	HARVARD UNIV	M M AVERNER	ARC	N M HOLBROOK	NAG 2 1417	282
51	HARVARD UNIV	M M AVERNER	ARC	N WANG	NAG 2 1509	282
51	HARVARD UNIV	M MEYER	GSFC	C M CAVANAUGH	NAG 5 10906	285
51	HOWARD UNIV	L PUTCHA	JSC	M W COOMES	NAG 9 977	155
51	INDIANA UNIV	A NURRIDIN	HQ	R L DUCN	NGT 5 50203	215
51	INDIANA UNIV	B GUYNES	MSFC	C M TRAYCOFF	NAG 8 1586	215
51	INDIANA UNIV - BLOOMINGTON	A E RONCA	ARC	J R ALBERTS	NAG 2 1449	215
51	JUDSON COLLEGE-ELGIN ILLINOIS	M M AVERNER	ARC	E A JUERGENSMEYER	NAG 2 1512	200
51	KANSAS STATE UNIV	W E HINDS	ARC	S K CHAPES	NAG 2 1274	228
51	KENT STATE UNIV	M M AVERNER	ARC	L G LEFF	NAG 2 1497	412
51	LOUISIANA STATE UNIV - BATON ROUGE	C M WINGET	ARC	M E MUSGRAVE	NAG 2 1020	233
51	LOUISIANA STATE UNIV - BATON ROUGE	L E BEBOUT	ARC	J R BATTISTA	NAG 2 1460	233
51	LOUISIANA STATE UNIV - BATON ROUGE	M M AVERNER	ARC	V J LICATA	NAG 2 1511	233
51	LOUISIANA STATE UNIV - BATON ROUGE	M MEYAPPAN	ARC	P VASHISTA	NCC 2 5440	235
51	MARSHALL UNIV	M M AVERNER	ARC	W B RHOTEN	NAG 2 1194	544
51	MASSACHUSETTS INST OF TECH	M M AVERNER	ARC	A L DEMAINE	NAG 2 1350	288
51	MASSACHUSETTS INST OF TECH	N R PELLIS	JSC	L E FREED	NAG 9 836	296
51	MASSACHUSETTS INST OF TECH	N R PELLIS	JSC	L FREED	NCC 8 174	299
51	MEDICAL COLLEGE OF GEORGIA	M M AVERNER	ARC	P L MCNEIL	NAG 2 1416	188
51	MEDICAL COLLEGE OF WISCONSIN	R D MACELROY	ARC	D A RILEY	NAG 2 1422	546
51	MEDICAL COLLEGE OF WISCONSIN	W E HINDS	ARC	D A RILEY	NAG 2 956	546
51	MEDICAL UNIV OF SOUTH CAROLINA	M M AVERNER	ARC	S HOFFMAN	NAG 2 1415	465
51	MIAMI UNIV	C M WINGET	ARC	J Z KISS	NAG 2 1017	413
51	MIAMI UNIV	D REISS-BUBENHEIM	ARC	J Z KISS	NCC 2 1200	413
51	MICHIGAN STATE UNIV	B GUYNES	GSFC	L R MCCABE	NAG 8 1575	307
51	MISSISSIPPI STATE UNIV	B GUYNES	MSFC	W W WILSON	NAG 8 1837	327
51	MISSISSIPPI STATE UNIV	B V GUYNES	MSFC	W W WILSON	NAG 8 1566	327
51	MONTANA STATE UNIV	M F VASQUES	ARC	B H PYLE	NCC 2 1143	337
51	MONTANA STATE UNIV	M T FLYNN	ARC	B H PYLE	NCC 2 5277	338
51	MOREHOUSE SCH MED	M M AVERNER	ARC	B J KLEMENT	NAG 2 1215	189
51	MOREHOUSE SCH MED	S M HING	ARC	G SONNENFELD	NCC 2 1262	189
51	MT SINAI SCH OF MED OF THE CUNY	C LLOYD	JSC	M SCHAFFLER	NAG 9 1097	383
51	MT SINAI SCH OF MED OF THE CUNY	M F VASQUES	ARC	G R HOLSTEIN	NCC 2 1173	383
51	MT SINAI SCH OF MED OF THE CUNY	M M AVERNER	ARC	G R HOLSTEIN	NAG 2 1191	382
51	MT SINAI SCH OF MED OF THE CUNY	W E HINDS	ARC	G R HOLSTEIN	NAG 2 946	382
51	NEW MEXICO HIGHLANDS UNIV	D S MCKAY	JSC	J C DEBACA	NAG 9 1168	361
51	NY UNIV	MM AVERNER	ARC	K D WALTON	NAG 2 1426	383
51	NY UNIV	W E HINDS	ARC	K D WALTON	NAG 2 951	383
51	NORTH CAROLINA STATE UNIV	J LETCHWORTH	KSC	D S BROWN	NAG10 308	401
51	NORTH CAROLINA STATE UNIV	M M AVERNER	ARC	I Y PERERA	NAG 2 1502	400
51	NORTHERN ARIZONA UNIV	M L FONDA	ARC	J H WITTKKE	NCC 2 5356	25
51	OHIO STATE UNIV	M M AVERNER	ARC	M L EVANS	NAG 2 1411	413
51	OREGON HEALTH SCIENCES UNIV	M M AVERNER	ARC	M V DANILCHIK	NAG 2 1199	431
51	OREGON STATE UNIV	M M AVERNER	ARC	T L LOMAX	NAG 2 1341	431
51	PENN STATE UNIV	M M AVERNER	ARC	D J COSGROVE	NAG 2 1342	442
51	PENN STATE UNIV	M M AVERNER	ARC	S G GILROY	NAG 2 1366	442
51	PURDUE UNIV	C A CONLEY	ARC	C A MITCHELL	NGT 2 52285	220
51	PURDUE UNIV	L KARR	MSFC	J MORRE	NAG 8 1147	219
51	PURDUE UNIV	M M AVERNER	ARC	D J MORRE	NAG 2 1344	216
51	PURDUE UNIV	R MACELROY	ARC	C MITCHELL	NAG 2 1389	217
51	RENSSELAER POLYTECH INST	M MEYER	GSFC	D P FERRIS	NAG 5 4557	384
51	RENSSELAER POLYTECH INST	M MEYER	GSFC	D WHITTET	NAG 5 9148	385
51	ROCHESTER INST OF TECH	J A SMITH	GSFC	D SCHOTT	NAG 5 11009	386
51	RUTGERS ST UNIV N	A NURRIDIN	HQ	K C TING	NGT 5 50229	359
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51	STANFORD UNIV	R M WHEELER	KSC	C S CRIDDLE	NGT10 52619	67
51	STATE UNIV OF NY - STONY BROOK	C HUA SU	MSFC	M DUDLEY	NCC 8 208	391
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51	STATE UNIV OF NY COL - PURCHASE	M A MEYER	GSFC	D J FLYNN	NAG 5 4691	391
51	STATE UNIV OF NY COL	D A QUINN	GSFC	G R WILSKY	NGT 8 52861	392
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51	TEXAS A&M UNIV	M F VASQUES	ARC	M D DELP	NCC 2 1166	483
51	TEXAS A&M UNIV	M M AVERNER	ARC	M D DELP	NAG 2 1340	480
51	TEXAS CHRISTIAN UNIV	B L GUYNES	MSFC	J G ALBRIGHT	NAG 8 1356	485
51	THE UNIV OF CENTRAL FLORIDA	C QUINCY	KSC	J F WEISHAMPEL	NAG10 278	170
51	THOMAS JEFFERSON UNIV	D RISEN	JSC	A FERTALA	NAG 9 1342	452
51	THOMAS JEFFERSON UNIV	F A CUCINOTTA	JSC	C ILIAKIS	NAG 9 1023	452
51	TULANE UNIV	M M AVERNER	ARC	C A NICKERSON	NAG 2 1378	237
51	TULANE UNIV	N PELLIS	JSC	K O	NAG 9 826	237
51	UNIV HOUSTON-HOUSTON	R E GRINDELAND	ARC	A C VAILAS	NAG 2 1284	486
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51	UNIV OF MASSACHUSETTS	M M AVERNER	ARC	Y L WANG	NAG 2 1495	301
51	UNIV OF MED AND DENTISTRY	M M AVERNER	ARC	R S NOWAKOWSKI	NAG 2 1367	360
51	UNIV OF MINN	B GUYNES	MSFC	W S HU	NAG 8 1349	323
51	UNIV OF TEXAS MED BRAN - GALVESTON	B PALOSKI	JSC	G KAUFMAN	NCC 9 123	488
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51	UNIV OF TEXAS MED BRAN - GALVESTON	C M WINGET	ARC	D NIESSEL	NCC 2 1160	488
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51	UNIV OF TEXAS	D REISS-BUBENHEIM	ARC	S T BRADY	NAG 2 962	489
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51	UNIV	W E HINDS	ARC	R S KOWAKOWSKI	NAG 2 950	360
51	UNIV OF ALABAMA - BIRMINGHAM	M M AVERNER	ARC	V D DARLEY-USMAR	NAG 2 1348	5
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51	UNIV OF ALABAMA - HUNTSVILLE	A E RONCA	ARC	R F EATON	NGT 2 52283	14
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51	UNIV OF ARIZONA	M M AVERNER	ARC	M E TISCHER	NAG 2 1187	25
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51	UNIV OF CALIFORNIA - DAVIS	R D MACELROY	ARC	T M HOBAN-HIGGINS	NAG 2 1404	80
51	UNIV OF CALIFORNIA - DAVIS	W E HINDS	ARC	B CHAPMAN	NAG 2 1019	79
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51	UNIV OF CALIFORNIA - IRVINE	C W LLOYD	JSC	R E PURDY	NAG 9 1149	86
51	UNIV OF CALIFORNIA - IRVINE	W E HINDS	ARC	K M BALDWIN	NAG 2 942	84
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51	UNIV OF CALIFORNIA - SAN FRANCISCO	R K GLOBUS	ARC	C H DAMSKY	NCC 2 1194	105
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51	UNIV OF CALIFORNIA - SANTA CRUZ	C E WADE	ARC	C L ORTIZ	NGT 2 52230	114
51	UNIV OF CALIFORNIA - SANTA CRUZ	M KLISS	ARC	G MILLHAUSER	NCC 2 5358	114
51	UNIV OF CALIFORNIA - SANTA CRUZ	M L FONDA	ARC	A KANAVARIOTI	NCC 2 5367	114
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51	UNIV OF CHICAGO	R D MAC-ELROY	ARC	N H PATEL	NAG 2 6050	204
51	UNIV OF COLORADO - BOULDER	D REISS-BEBENHEIM	ARC	L STODIECK	NCC 2 5391	139
51	UNIV OF COLORADO - BOULDER	M KLISS	ARC	G HEYENGA	NCC 2 1145	139
51	UNIV OF CONNECTICUT	B M BEBOUT	ARC	P T VISSCHER	NCC 2 1067	145
51	UNIV OF DISTRICT OF COLUMBIA	D MENCHAN	GSFC	H L PHELPS	NAG 5 9545	161
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51	UNIV OF ILLINOIS - CHICAGO CIRCLE	M M AVERNER	ARC	A LYSAKOWSKI	NAG 2 1358	207
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51	UNIV OF LOUISVILLE	J W HINES	ARC	E WANG	NCC 2 5373	232
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51	UNIV OF MARYLAND - COLLEGE PARK	D E WALTER	GSFC	L W ADAMS	NAG 5 8678	262
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51	UNIV OF MIAMI	D RISEN	JSC	L INVERARDI	NAG 9 1346	177
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51	UNIV OF NORTH TEXAS	M MEYER	GSFC	D S BRATERMAN	NAG 5 4891	491
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51	UNIV OF ROCHESTER	D RISEN	JSC	J H WU	NAG 9 1360	394
51	UNIV OF SAN FRANCISCO	C M WINGET	ARC	E V BENTON	NCC 2 893	115
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51	UNIV OF VIRGINIA	D R MORRISON	MSFC	L W CHUNG	NCC 8 171	527
51	UNIV OF WASHINGTON	J H BELL	ARC	J B CALLIS	NGT 2 52281	542
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51	UNIV OF WISCONSIN - MADISON	M M AVERNER	ARC	P H MASSON	NAG 2 1189	547
51	UNIV OF WISCONSIN - MADISON	M M AVERNER	ARC	P H MASSON	NAG 2 1492	547
51	UNIV OF WISCONSIN - MADISON	M M AVERNER	ARC	P MASSON	NAG 2 1336	547
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51	UNIV OF WISCONSIN - MILWAUKEE	D R MORRISON	JSC	P I LELKES	NCC 8 173	555
51	UTAH STATE UNIV	C P MCKAY	ARC	L S POWERS	NCC 2 5466	505
51	WAKE FOREST UNIV	M M AVERNER	ARC	G K MUDAAY	NAG 2 1203	404
51	WAKE FOREST UNIV	M M AVERNER	ARC	G K MUDAY	NAG 2 1507	404
51	WASHINGTON STATE UNIV	M M AVERNER	ARC	N G LEWIS	NAG 2 1513	543
51	WASHINGTON UNIV - ST	M M AVERNER	ARC	D E ANGELAKI	NAG 2 1493	332
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51	YALE UNIV	B GUYNES	MSFC	R E APFEL	NAG 8 1351	148
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51	YALE UNIV	M M AVERNER	ARC	R G KALB	NAG 2 1504	146
51	YALE UNIV	M MEYER	GSFC	D SOLL	NAG 5 9554	147
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54	ARIZONA STATE UNIV	D RISEN	JSC	B C TOWE	NAG 9 1359	23
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54	MONTANA STATE UNIV	D J DES MARAIS	ARC	D M WARD	NCC 2 1073	337
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54	UNIV OF ARIZONA	D L PETERSON	ARC	B D GANAPOL	NCC 2 5239	38
54	UNIV OF ARK MAIN CAMP - FAYETTEVILLE	C P MCKAY	ARC	T A KRAL	NGT 2 52243	41
54	UNIV OF CALIFORNIA - BERKELEY	D J DES MARAIS	ARC	N R PACE	NGT 2 52233	77
54	UNIV OF CALIFORNIA - SAN DIEGO	K ARRIGO	GSFC	D LUBIN	NAG 5 6414	98
54	UNIV OF CONNECTICUT	M S BURRELL	GSFC	R COLWELL	NGT 5 82	146
54	UNIV OF FLORIDA	A T LEE	JSC	J J WARWICK	NCC 9 110	175
54	UNIV OF MARYLAND BALTIMORE COUNTY	F A CUCINOTTA	JSC	B M RABIN	NAG 9 1190	275
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54	UNIV OF PUERTO RICO-RIO PIEDRAS	W J LOVE	MSFC	B R WEINER	NAG 8 1709	558
54	UNIV OF VERMONT	R H THOMAS	GSFC	D MORRISSEY	NAG 5 4138	506
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55	LOUISIANA STATE UNIV - BATON ROUGE	W M KNOTT	KSC	M E MUSGRAVE	NAG10 139	234
55	MISSISSIPPI VALLEY STATE UNIV	G CARTER	JSC	R BAHADUR	NAG13 98004	328
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55	TEXAS A&M UNIV	C T BOURLAND	JSC	R L RICHTER	NAG 9 1119	482
55	TEXAS A&M UNIV	D G SICKOREZ	JSC	R W WEAVER	NGT 9 34	484
55	TEXAS SOUTHERN UNIV	L ARMENDARIZ	JSC	G A JEJEDOWO	NAG 9 1227	485
55	TEXAS SOUTHERN UNIV	L ARMENDARIZ	JSC	O A JEJLOWO	NAG 9 1194	485
55	UNIV OF ARIZONA	D BARTA	JSC	G GIACOMELLI	NAG 9 1378	37
55	UNIV OF CALIFORNIA - DAVIS	S S WEGENER	ARC	S USTIN	NAG 2 1442	80
55	UNIV OF FLORIDA	A L FROST	MSFC	R J FERL	NAG10 145	174
55	UNIV OF FLORIDA	J C SAGER	KSC	R A BUCKLIN	NAG10 293	174
55	UNIV OF MAINE - ORONO	B GRAHAM	JSC	S SADER	NAG13 98008	239
55	UNIV OF VIRGINIA	R WHEELER	KSC	A MILLS	NGT10 52620	528
55	UTAH STATE UNIV	D BARTA	JSC	B BUGBEE	NAG 9 1237	505
55	UTAH STATE UNIV	G C JAHNS	ARC	W F CAMPBELL	NCC 2 831	505
56	BAYLOR COLLEGE OF MED	C LLOYD	JSC	B J SCHWARTZ	NAG 9 1158	474
56	BAYLOR COLLEGE OF MED	C R TALLEY	MSFC	B YOFE	NAG 8 1383	474
56	BAYLOR COLLEGE OF MED	L C SHACKELFORD	JSC	A D LE BLANC	NCC 9 61	475
56	BOSTON UNIV	M ANDERSON	JSC	C J DE LUCA	NCC 9 127	280
56	BROWN UNIV	J JONES	JSC	M RUTHERFORD	NAG 9 1302	459
56	CASE WESTERN RESERVE UNIV	J M SANKOVIC	GRC	J R KADAMBI	NAG 3 2620	407
56	COLORADO SCH OF MINES	D RISIN	JSC	D W	NAG 9 1364	119
56	DARTMOUTH COLLEGE	C LLYOD	JSC	J BUCKLEY	NAG 9 1387	344
56	DARTMOUTH COLLEGE	D BELL	JSC	J BUCKEY	NAG 9 1088	344
56	HOWARD UNIV	R SRIDHAR	MSFC	R SRIDHAR	NCC 8 184	155
56	JOHNS HOPKINS UNIV	F A CUCINOTTA	JSC	J DICELLO	NGT 9 50	253
56	MASSACHUSETTS INST OF TECH	B WOOLFORD	JSC	D J NEWMAN	NAG 9 1003	296
56	MASSACHUSETTS INST OF TECH	S SAWYER	SSC	C M OMAN	NAS 9 19536	297
56	MEDICAL UNIV OF SOUTH CAROLINA	N R PELLIS	MSFC	A J SMOKA	NAG 8 1385	465
56	MOREHOUSE COLLEGE	K KRISHEN	JSC	K DUTT	NAG 9 964	189
56	MOREHOUSE SCH MED	C SAMS	JSC	M THIERRY-PALMER	NCC 9 112	189
56	MOREHOUSE SCH MED	K KRISHEN	JSC	R SRIDARAN	NAG 9 963	189
56	MOREHOUSE SCH MED	L ARMENDARIZ	JSC	M THIERRY-PALMER	NCC 9 53	189
56	NY UNIV	F A CUCINOTTA	JSC	F J BURNS	NAG 9 1024	383
56	PENN STATE UNIV -HERSHEY MED	C F SAWIN	JSC	L I SINOWAY	NAG 9 1044	442
56	PENN STATE UNIV -HERSHEY MED	C W LLOYD	JSC	C A RAY	NAG 9 1034	442
56	PENN STATE UNIV	C W LLOYD	JSC	P CAVANAGH	NAG 9 1264	449
56	PENN STATE UNIV	M KAMMAN	JSC	P CAVANAGH	NAS 9 99095	449
56	PONCE SCH OF MED	H L D'ANTONI	ARC	J L MATTA	NAG 2 1385	556
56	STANFORD UNIV	K A SOUZA	ARC	S A SCHENDEL	NCC 2 1010	64
56	STANFORD UNIV	R MAH	ARC	S JEFFREY	NCC 2 5381	65
56	STANFORD UNIV	R T WHALEN	ARC	N J PELC	NCC 2 5434	65
56	STANFORD UNIV	R T WHALEN	ARC	S A NAPEL	NCC 2 5186	64
56	TUFTS UNIV	P M DOTY	MSFC	D L KAPLAN	NAG 8 1699	301
56	TULANE UNIV	D RIIN	JSC	K C O	NAG 9 1351	237
56	TULANE UNIV	D RISEN	JSC	T HAMMOND	NAG 9 1344	237
56	TULANE UNIV	D RISIN	JSC	C A NICKERSON	NAG 9 1350	237
56	TULANE UNIV	S R GONDA	JSC	T HAMMOND	NAG 8 1362	237
56	UNIV OF MASSACHUSETTS	D RISEN	JSC	W J SCHWARTZ	NAG 9 1356	301
56	UNIV OF MED AND DENTISTRY	C W LLOYD	JSC	T P STEIN	NAG 9 1162	360
56	UNIV OF TEXAS MED BRAN - GALVESTON	A LEE	JSC	A FERRANDO	NAS 9 97147	488
56	UNIV OF TEXAS MED BRAN - GALVESTON	C LLOYD	JSC	A A FERRANDO	NAG 9 1155	488
56	UNIV OF TEXAS MED BRAN - GALVESTON	M ANDERSON	JSC	A D BARRET	NAS 9 01006	488
56	UNIV OF TEXAS MED BRAN - GALVESTON	R BILLICA	JSC	W A WASSON	NAG 9 859	488
56	UNIV OF TEXAS MED BRAN - GALVESTON	V CHOPPA	MSFC	V CHOPPA	NCC 8 170	488
56	UNIV OF TEXAS	C M SMITH	JSC	C G BLOMQVIST	NAS 9 19540	489
56	UNIV OF TEXAS	C W LLOYD	JSC	C G CRANDALL	NAG 9 1033	489
56	UNIV OF TX-HLTH SCI CTR-SAN ANTONIO	S GONDA	JSC	J M JESSUP	NAG 9 1206	488
56	UNIV	C SAWIN	JSC	B BUTLER	NAG 9 1040	490

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56	UNIV	J T JAMES	JSC	A HOLIAN	NAG 9 1144	490
56	UNIV OF ALABAMA - HUNTSVILLE	S SPEARMAN	MSFC	M BANISH	NAG 8 1476	11
56	UNIV OF ARIZONA	J SCHONFELD	ARC	J SZIVEK	NCC 2 5375	38
56	UNIV OF ARKANSAS - LITTLE ROCK	J D SMITH	ARC	C M COMPADRE	NGT 2 52242	41
56	UNIV OF CALIFORNIA - DAVIS	J E GREENLEAF	ARC	P MOLE	NGT 2 52238	83
56	UNIV OF CALIFORNIA - SAN DIEGO	C M WINGET	ARC	R A PEDOWITZ	NCC 2 978	103
56	UNIV OF CALIFORNIA - SAN DIEGO	D R MORRISON	JSC	R L SAH	NAG 8 1571	102
56	UNIV OF CALIFORNIA - SAN DIEGO	E M HOLTON	ARC	A R HARGENS	NCC 2 1133	103
56	UNIV OF CALIFORNIA - SAN DIEGO	E M HOLTON	ARC	C ROGERS	NCC 2 1196	103
56	UNIV OF CALIFORNIA - SAN FRANCISCO	C W LLOYD	JSC	J P MURNANE	NAG 9 1261	105
56	UNIV OF CALIFORNIA - SAN FRANCISCO	D BAUMANN	JSC	T LANG	NAS 9 99055	105
56	UNIV OF FLORIDA	D A TIPTON	KSC	A H NEIMS	NAS10 96004	174
56	UNIV OF NEW MEXICO-ALBUQUERQUE	K A SOUZA	ARC	D ALVERSON	NCC 2 5345	366
56	UNIV OF OKLAHOMA - NORMAN	B WOOLFORD	JSC	R SCHEGEL	NAG 9 1280	430
56	UNIV OF PENNSYLVANIA	B WOOLFORD	JSC	N BADLER	NAG 9 1279	453
56	UNIV OF PENNSYLVANIA	C SAMS	JSC	J R HOYER	NAG 9 1047	453
56	UNIV OF PITTSBURGH	C W LLOYD	JSC	T H MONK	NAG 9 1234	456
56	UNIV OF SAN DIEGO	D RISIN	JSC	R SAH	NAG 9 1354	115
56	UNIV OF SOUTH FLORIDA	D RISEN	JSC	S SAPORTA	NAG 9 1365	179
56	UNIV OF SOUTHERN COLORADO	T T SCHEGEL	JSC	J DEPALMA	NAG 9 1257	144
56	UNIV OF TENNESSEE - KNOXVILLE	G D BADHER	JSC	J NEAL	NAG 9 1269	471
56	UNIV OF TEXAS - AUSTIN	C LLOYD	JSC	R L HELMREICH	NAG 9 1275	496
56	UTAH STATE UNIV	K DAUES	JSC	G BINGHAM	NAG 9 1284	505
56	VIRGINIA COMMONWEALTH UNIV	A LEE	JSC	D ECKBURG	NAS 9 19539	533
59	ALABAMA A&M UNIV	B J COLLINS	ARC	P G KALE	NAG 2 1130	1
59	ARIZONA STATE UNIV	D G SICKCOREZ	JSC	R D SEIDLER	NGT 9 21	24
59	ARIZONA STATE UNIV	R A GRYMES	ARC	J D FARMER	NCC 2 1051	23
59	ARIZONA STATE UNIV	R V MORRIS	JSC	P R CHRISTENSON	NAG 9 1331	23
59	BAYLOR COLLEGE OF MED	C LLOYD	JSC	C SMITH	NAG 9 1253	474
59	BAYLOR COLLEGE OF MED	F A CUCINOTTA	JSC	L E PETERSON	NAG 9 1052	474
59	BAYLOR COLLEGE OF MED	L SHACKE	JSC	A LEBLANC	NAG 9 1133	474
59	BRANDEIS UNIV	C W LLOYD	JSC	J LACKNER	NAG 9 1037	281
59	BRANDEIS UNIV	C W LLOYD	JSC	J LACKNER	NAG 9 1038	281
59	BRANDEIS UNIV	V SCHNEIDER	GSFC	D LACKNER	NAG 5 6100	281
59	CALIFORNIA INST OF TECH	P DOTY	MSFC	W K RHIM	NAG 8 1743	48
59	CALIFORNIA INST OF TECH	P DOTY	MSFC	W L JOHNSON	NAG 8 1744	48
59	COLORADO STATE UNIV	S POTTER	ARC	G R COULTER	NCC 2 1099	122
59	COLORADO STATE UNIV	W M KNOTT	KSC	A N REDDY	NAG10 234	122
59	COLUMBIA UNIV	F A CUCINOTTA	JSC	E J HALL	NAG 9 1148	373
59	CORNELL UNIV	H W JONES	ARC	J B HUNTER	NCC 2 5459	380
59	CORNELL UNIV	M P AVERNER	GSFC	R WAYNE	NAG 5 6437	377
59	EAST TENNESSEE STATE UNIV	B GUYNES	MSFC	L WILSON	NAG 8 1375	467
59	FINCH UNIV HEALTH SCIENCES	B GUYNES	MSFC	R S KAPLAN	NAG 8 1827	200
59	HARVARD UNIV	R A GRYMES	ARC	A H KNOLL	NCC 2 1053	285
59	HARVARD UNIV	W J WAGNER	GSFC	D H PARKINSON	NAG 5 6554	283
59	INDIANA UNIV	L SMITH	GSFC	F PAVALKO	NGT 5 50291	215
59	IOWA STATE UNIV	D JAN	JPL	M D PORTER	NAG 9 1191	223
59	JOHNS HOPKINS UNIV	J A KAYE	GSFC	J YEE	NAG 5 7552	243
59	LOUISIANA STATE UNIV - BATON ROUGE	D L DEVINCENZI	ARC	J R BATTISTA	NAG 2 1320	233
59	MARQUETTE UNIV	D BAUMANN	JSC	D L COSTILL	NCC 9 116	546
59	MARQUETTE UNIV	V ELLERBEE	JSC	R H FITTS	NAS 9 18768	546
59	MASSACHUSETTS INST OF TECH	D K BAUMAN	JSC	C M OMAN	NAS 9 00097	297
59	MASSACHUSETTS INST OF TECH	J DETROVE	JSC	C M OMAN	NAG 9 1004	296
59	MASSACHUSETTS INST OF TECH	V SCHNEIDER	GSFC	R COHEN	NAG 5 4989	290
59	MOREHOUSE SCH MED	B LUNA	ARC	G L SANFORD	NGT 2 52239	189
59	MOREHOUSE SCH MED	B LUNA	ARC	G SONNENFELD	NAG 2 6029	189
59	MOREHOUSE SCH MED	C SAMS	JSC	K DUTT	NAG 9 1164	189
59	MT SINAI SCH OF MED OF THE CUNY	M E ANDERSON	JSC	S MOORE	NCC 9 128	383
59	MT SINAI SCH OF MED OF THE CUNY	V SCHNEIDER	GSFC	H KAUFMANN	NAG 5 6276	382
59	NORTH CAROLINA STATE UNIV	D P LISKOWSKY	GSFC	E DAVIES	NAG 5 3743	400
59	NORTHEASTERN OHIO UNIV COL OF MED	M M AVERNER	GSFC	W J LANDIS	NAG 5 7789	413
59	NORTHEASTERN UNIV	P DOTY	MSFC	A KARMA	NAG 8 1668	300
59	OHIO STATE UNIV	B J WOOLFORD	JSC	D D WOODS	NAG 9 1005	417
59	OHIO STATE UNIV	R MORRIS	JSC	J BIGHAM	NGT 9 51	419
59	OHIO UNIV	J M ORASANU	ARC	C E MCCOY	NCC 2 827	420

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59	PENN STATE UNIV	C LLOYD	JSC	J A PAWELCZYK	NAG 9 1173	449
59	PENN STATE UNIV	M AVERNER	GSFC	N V FEDOROFF	NAG 5 3970	444
59	PENN STATE UNIV	M AVERNER	GSFC	R CYR	NAG 5 4840	444
59	PENN STATE UNIV	R A GRYMES	ARC	H OHMOTO	NCC 2 1057	450
59	RICE UNIV	D LASKOWSKY	GSFC	L MCINTIRE	NAG 5 4072	477
59	RUTGERS ST UNIV N	G FOGLEMAN	GSFC	H JANES	NAG 5 6011	357
59	SAN FRANCISCO STATE UNIV	A PLAZA	JSC	D PALMER	NAS 9 19410	55
59	SAN JOSE STATE UNIV	H L D'ANTONI	ARC	E P METZGER	NCC 2 5344	57
59	SAN JOSE STATE UNIV	R D MACELROY	ARC	M M AVERNER	NCC 2 6042	58
59	SOUTHERN UNIV & A&M COLLEGE	G J FISHMAN	MSFC	J G STACY	NAG 8 1625	236
59	SPELMAN COLLEGE	D O FRAIZER	MSFC	O SCRIVEN	NCC 8 194	190
59	STANFORD UNIV	A JANETOS	GSFC	P MATSON	NAG 5 6615	61
59	STANFORD UNIV	R T WHALEN	ARC	B LUSIGNAN	NGT 2 52246	66
59	STATE UNIV OF NY - ALBANY	K HIGGINBOTHAN	MSFC	W M GIBSON	NCC 8 125	387
59	STATE UNIV OF NY - STONY BROOK	V SCHNEIDER	GSFC	C T RUBIN	NAG 5 3950	389
59	TENNESSEE TECHNOLOGICAL UNIV	D HATHAWAY	MSFC	S HAN	NAG 8 1631	469
59	TEXAS A&M UNIV	M A SHEPANEK	GSFC	M D DELP	NAG 5 3754	481
59	TEXAS TECH UNIV	D L HENNINGER	JSC	J L SMITH	NCC 9 108	486
59	THE SCRIPPS REASERCH INST	L J CAROFF	ARC	R GHADIRI	NCC 2 1055	67
59	THE UNIV OF CENTRAL FLORIDA	C D QUINCY	KSC	D W JOHNSON	NAG10 276	170
59	TUFTS UNIV	D JAN	JPL	S P KOUNAVES	NAG 9 1182	301
59	TUSKEGEE UNIV	P X CALLAHAN	ARC	W A HILL	NAG 2 6049	4
59	TUSKEGEE UNIV	R WHEELER	KSC	D MARTLEY	NAG10 209	5
59	TUSKEGEE UNIV	S POTTER	KSC	D HILL	NAG10 281	5
59	UNIV HOUSTON-HOUSTON	C W LLOYD	JSC	D A MARTINEZ	NAG 9 1152	487
59	UNIV OF TEXAS MED BRAN - GALVESTON	R BILLICA	JSC	J R DAVIS	NCC 9 81	488
59	UNIV OF TEXAS	A M LEE	JSC	C G BLOMQVIST	NAS 9 19429	489
59	UNIV OF TEXAS	V SCHNEIDER	GSFC	B LEVINE	NAG 5 4846	489
59	UNIV OF TX-HLTH SCI CTR-SAN ANTONIO	W M KNOTT	KSC	M L WIEDERHOLD	NAG10 180	488
59	UNIV	J MECK	JSC	R F LODATO	NCC 9 103	490
59	UNIV	M AVERNER	GSFC	D ROWE	NAG 5 6316	144
59	UNIV	M AVERNER	GSFC	E DURBAN	NAG 5 4710	489
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59	UNIV OF ALABAMA - BIRMINGHAM	D K COLLINS	MSFC	L J DELUCAS	NAS 8 40189	6
59	UNIV OF ALABAMA - HUNTSVILLE	P M DOTY	MSFC	M T ZUGRAV	NAG 8 1456	11
59	UNIV OF ALABAMA - HUNTSVILLE	P M DOTY	MSFC	R J NAUMANN	NAG 8 1464	11
59	UNIV OF ALABAMA - HUNTSVILLE	S SPEARMAN	MSFC	F ROSENBERGER	NCC 8 99	13
59	UNIV OF ARIZONA	R WHEELER	KSC	J L CUELLO	NAG10 255	37
59	UNIV OF CALIFORNIA - BERKELEY	A C JANETOS	GSFC	T L BENNING	NAG 5 6593	70
59	UNIV OF CALIFORNIA - DAVIS	R E GRINDELAND	ARC	C A FULLER	NAG 2 1265	80
59	UNIV OF CALIFORNIA - DAVIS	V SCHNEIDER	GSFC	D MURAKAMI	NAG 5 6440	80
59	UNIV OF CALIFORNIA - IRVINE	A POHORILLE	ARC	J K LANYI	NCC 2 5333	86
59	UNIV OF CALIFORNIA - IRVINE	S ROBBINS	MSFC	A MCPHERSON	NAS 8 00017	86
59	UNIV OF CALIFORNIA - IRVINE	S ROBBINS	MSFC	A MCPHERSON	NAS 8 00019	86
59	UNIV OF CALIFORNIA - IRVINE	S ROBBINS	MSFC	A MCPHERSON	NAS 8 39763	86
59	UNIV OF CALIFORNIA - LOS ANGELES	R A GRYMES	ARC	B RUNNEGAR	NCC 2 1050	94
59	UNIV OF CALIFORNIA - SAN DIEGO	G ASRAR	GSFC	R GOERICKE	NGT 5 30122	104
59	UNIV OF CALIFORNIA - SAN DIEGO	J MECK	JSC	M G ZEIGLER	NCC 9 106	104
59	UNIV OF CALIFORNIA - SAN DIEGO	M AVERNER	GSFC	J A FRANGOS	NAG 5 4648	97
59	UNIV OF CALIFORNIA - SAN DIEGO	P MOUNTJOY	GSFC	P J MILLS	NCC 9 105	104
59	UNIV OF CALIFORNIA - SAN DIEGO	S M MCCULLUM	JSC	J B WEST	NAS 9 98124	103
59	UNIV OF CALIFORNIA - SAN FRANCISCO	M H NEW	ARC	M A WILSON	NCC 2 5295	105
59	UNIV OF CALIFORNIA - SANTA BARBARA	C LLOYD	JSC	M ECKSTIEN	NAG 9 1329	109
59	UNIV OF CALIFORNIA - SANTA CRUZ	M FONDA	ARC	J PEARSE	NCC 2 5351	114
59	UNIV OF COLORADO - BOULDER	M AVERNER	GSFC	A STAEHELIN	NAG 5 3967	125
59	UNIV OF COLORADO - BOULDER	R A GRYMES	ARC	B JAKOSKI	NCC 2 1052	139
59	UNIV OF COLORADO - BOULDER	S J LAMBING	MSFC	G MORGENTHALER	NCC 8 131	140
59	UNIV OF FLORIDA	A L FROST	MSFC	B CARROLL	NAG 8 1821	174
59	UNIV OF GEORGIA	C KUNDROT	MSFC	B WANG	NCC 8 233	191
59	UNIV OF HOUSTON - CLEAR LAKE	M POWELL	JSC	R S CHHIKARA	NAG 9 1083	490
59	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	J R ROGERS	MSFC	C F ZOKOSKI	NAG 8 1376	212
59	UNIV OF IOWA	L SMITH	GSFC	C V GISOLFI	NGT 5 50156	227
59	UNIV OF KENTUCKY	D JAN	GSFC	C A GRIMES	NAG 5 4594	231
59	UNIV OF MARYLAND - COLLEGE PARK	L P CHAMBERS	GSFC	S I SUKHAVREV	NAG 5 6526	259
59	UNIV OF MISSOURI - COLUMBIA	M AVERNER	GSFC	T A JONES	NAG 5 4607	330

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59	UNIV OF NORTH TEXAS HLTH SCI	V SCHNEIDER	GSFC	M SMITH	NAG 5 3744	491
59	UNIV OF NORTH TEXAS HLTH SCI	V SCHNEIDER	GSFC	P B RAVEN	NAG 5 4668	491
59	UNIV OF PENNSYLVANIA	C W LLOYD	JSC	H VAN D	NAG 9 1161	453
59	UNIV OF PENNSYLVANIA	D RISEN	JSC	L M SHAPIRO	NAG 9 1357	453
59	UNIV OF PITTSBURGH	C W LLOYD	JSC	T H MONK	NAG 9 1036	455
59	UNIV OF PUERTO RICO - MAYAGUEZ	J SAYER	KSC	G COLON	NAG10 257	557
59	UNIV OF ROCHESTER	C TALLEY	MSFC	D WU	NAG 8 1382	394
59	UNIV OF SOUTHERN CALIFORNIA	B J WOOLFORD	JSC	U NEUMANN	NAG 9 1165	118
59	UNIV OF TENNESSEE - KNOXVILLE	F A CUCINOTTA	JSC	L W TOWNSEND	NAG 9 1123	471
59	UNIV OF TENNESSEE - KNOXVILLE	G BADHWAR	JSC	J S NEAL	NAG 9 1121	471
59	UNIV OF TEXAS - EL PASO	A R ROCHA	JSC	L E MURR	NAG 9 1100	500
59	UNIV OF UTAH	W SHIMMERLING	GSFC	R WARTERS	NAG 5 4452	502
59	UNIV OF VIRGINIA	B Q GUYNES	MSFC	M C WIENER	NAG 8 1832	526
59	UNIV OF WASHINGTON	M AVERNER	GSFC	D CLELAND	NAG 5 6328	536
59	UNIV OF WISCONSIN - LA CROSSE	J D SMITH	ARC	S O SENGER	NCC 2 1163	547
59	UNIV OF WISCONSIN - MADISON	B WOOLFORD	JSC	B S CALDWELL	NAG 9 1008	553
59	UNIV OF WISCONSIN - MADISON	C LLYOD	KSC	D SCHOELLER	NAG 9 1039	553
59	UNIV OF WYOMING	C LUNDQUIST	GSFC	R E GANTENBEIN	NAG 9 1176	556
59	UTAH STATE UNIV	R WHEELER	KSC	P GROSSEL	NGT10 52617	506
59	VANDERBILT UNIV	R GRUGEL	MSFC	A V ANIKUMER	NAG 8 1745	472
59	WASHINGTON STATE UNIV	M AVERNER	GSFC	B POOVAIAH	NAG 5 4841	543
59	WASHINGTON UNIV - ST	C SAWIN	GSFC	D E ANGELAKI	NAG 5 8194	334
59	WRIGHT STATE UNIV	R J WILLIAMS	GSFC	S R MOHLER	NGT 5 30091	428
61	CLEVELAND STATE UNIV	B GUYNES	MSFC	J M BELOVICH	NAG 8 1584	410
61	DREXEL UNIV	H SHAW	GSFC	P LELKES	NAG 9 1380	440
61	MOREHOUSE COLLEGE	R RICHMOND	MSFC	G L SANFORD	NAG 8 1636	188
61	OLD DOMINION UNIV	A T POPE	LARC	F G FREEMAN	NGT 1 52219	521
61	OLD DOMINION UNIV	A T POPE	LARC	G D COATES	NGT 1 52220	521
61	RUTGERS STATE UNIV OF NJ NEW BRUNS	J B HARTLEY	GSFC	Z KOLBER	NAS 5 99138	359
61	STANFORD UNIV	R W REMINGTON	ARC	J E GABRIELI	NCC 2 5261	64
61	TEXAS WOMAN	R SAULSBERRY	JSC	N E MEAGHER	NAG 9 1192	486
61	UNIV HOUSTON-HOUSTON	D HARM	JSC	R B LOFTIN	NCC 9 57	487
61	UNIV OF MICHIGAN - ANN ARBOR	C LLOYD	JSC	G L AMIDON	NAG 9 1154	316
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62	FLORIDA A&M UNIV	R MCKINNEY	KSC	B MCCUNE	NAG10 248	164
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62	SANTA CLARA UNIV	B G KANKI	ARC	J C TAYLOR	NCC 2 1025	58
62	SANTA CLARA UNIV	B KANKI	ARC	J TAYLOR	NCC 2 1156	58
62	TUSKEGEE UNIV	D BARTA	JSC	W A HILL	NCC 9 51	5
69	BRADLEY UNIV	L J PRINZEL	LARC	D A MONTGOMERY	NAG 1 2263	200
69	ESTRN VA MED SCH-ESTRN VA MED AUTH	A T POPE	LARC	O S PALSSON	NCC 1 310	509
69	GEORGE MASON UNIV	S M CASNER	ARC	D B DAVIS	NAG 2 1289	509
69	GEORGIA INST OF TECH	J M ORASANU	ARC	U M FISCHER	NCC 2 1124	186
69	GEORGIA INST OF TECH	N AVAILABLE	LARC	N AVAILABLE	NCA 1 163	185
69	MASSACHUSETTS INST OF TECH	S C LOZITO	ARC	R J HANSMAN	NAG 2 1299	287
69	MASSACHUSETTS INST OF TECH	S C LOZITO	ARC	T B SHERIDAN	NAG 2 729	287
69	MISSISSIPPI STATE UNIV	M R ENDSLEY	LARC	D B KABER	NAG 1 2295	327
69	NY UNIV	A J AHUMADA	ARC	M LANDY	NCC 2 5417	383
69	NORTH CAROLINA STATE UNIV	I BARSHI	ARC	D H MERSHON	NAG 2 1281	400
69	NORTH CAROLINA STATE UNIV	L J PRINZEL, III	LARC	D KABER	NGT 1 01004	401
69	NORTH CAROLINA STATE UNIV	L J PRINZEL	LARC	D KABER	NAG 1 01039	399
69	NORTHWESTERN UNIV	B G KANKI	ARC	E J CZEPIEL	NCC 2 1098	203
69	OHIO STATE UNIV	J M ORASANU	ARC	C E MCCOY	NCC 2 1130	418
69	OHIO UNIV	J M ORASANU	ARC	C E MCCOY	NCC 2 1030	420
69	OHIO UNIV	J ORASANU	ARC	C E MCCOY	NCC 2 1258	420
69	OLD DOMINION UNIV	A T POPE	LARC	F G FREEMAN	NCC 1 364	518
69	OLD DOMINION UNIV	A T POPE	LARC	M W SCERBO	NAG 1 2254	516
69	OLD DOMINION UNIV	A T POPE	LARC	T L DICKINSON	NAG 1 2252	516
69	OLD DOMINION UNIV	I BARSHI	ARC	D S MCNAMARA	NAG 2 1319	517

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69	OLD DOMINION UNIV	I BARSHI	ARC	D S MCNAMARA	NAG 2 1481	517
69	OLD DOMINION UNIV	J R COMSTOCK, JR.	LARC	M W SCERBO	NGT 1 01019	520
69	OLD DOMINION UNIV	L J PRENZEL	LARC	F G FREEMAN	NGT 1 01015	520
69	OLD DOMINION UNIV	L J PRINZEL	LARC	F G FREEMAN	NCC 1 01012	519
69	OLD DOMINION UNIV	L J PRINZEL	LARC	F G FREEMAN	NGT 1 52231	521
69	OLD DOMINION UNIV	P C SCHUTTE	LARC	D D DOVES	NGT 1 01021	520
69	OLD DOMINION UNIV	P C SCHUTTE	LARC	M MIHALECZ	NGT 1 52230	521
69	OREGON GRADUATE INST OF SCI & TECH	A J AHUMADA	ARC	M PAVEL	NCC 2 1190	430
69	OREGON GRADUATE INST OF SCI & TECH	B L BEARD	ARC	M PAVEL	NCC 2 1215	430
69	PENN STATE UNIV	L J PRINZEL	LARC	W J RAY	NAG 1 2273	442
69	RICE UNIV	B L BEARD	ARC	M BYRNE	NCC 2 1219	478
69	SAN FRANCISCO STATE UNIV	J M ORASANU	ARC	K L MOSIER	NAG 2 1285	55
69	SAN JOSE STATE UNIV	R K DISMUKES	ARC	K P JORDAN	NCC 2 798	56
69	TEXAS TECH UNIV	J BREDEKAMP	GSFC	P R DELUCIA	NCC 2 5257	485
69	THE CATHOLIC UNIV OF AMERICA	L J PRINZEL	LARC	R PARASURAMAN	NAG 1 01066	156
69	THE CATHOLIC UNIV OF AMERICA	P C SHUTTE	LARC	S M GALSTER	NGT 1 52190	161
69	THE CATHOLIC UNIV OF AMERICA	W JOHNSON	ARC	R PARASURAMAN	NAG 2 1096	156
69	UNIV OF ARKANSAS - LITTLE ROCK	C SAWIN	JSC	P A TESCH	NAG 9 1061	40
69	UNIV OF CALIFORNIA - IRVINE	J MULLIGAN	ARC	T M DZMURA	NCC 2 5378	86
69	UNIV OF COLORADO - BOULDER	I BARSHI	ARC	A F HEALY	NCC 2 1112	139
69	UNIV OF IDAHO - MOSCOW	B G KANKE	ARC	L T OSTROM	NCC 2 1174	200
69	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	B BEARD	ARC	C D WICKENS	NCC 2 1214	213
69	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	D C FOYLE	ARC	C D WICKENS	NAG 2 1120	209
69	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	I BARSHI	ARC	H L TAYLOR	NAG 2 1282	209
69	UNIV OF OREGON - EUGENE	I BARSHI	ARC	R MAURO	NCC 2 1089	435
69	UNIV OF VIRGINIA	M K KAISER	ARC	D R PROFFITT	NCC 2 1093	527
69	UNIV OF WASHINGTON	R A HOFFMAN	GSFC	G K PARKS	NAG 5 3170	535
69	UNIV OF WEST FLORIDA	D C FOYLE	ARC	D L STILL	NAG 2 1225	179
69	UNIV OF WEST FLORIDA	J DEMAIO	ARC	A K RAJ	NAG 2 1490	180
69	UNIV OF WISCONSIN - MADISON	E M WENZEL	ARC	F L WIGHTMAN	NCC 2 542	554
69	WRIGHT STATE UNIV	A NURRIDDIN	HQ	R H GILKEY	NGT 5 50213	428
73	SOUTHWEST TEXAS STATE UNIV	W A LARSEN	JSC	K MARGERISON	NCC 9 54	480
75	UNIV OF MARYLAND - COLLEGE PARK	J BOYCE	HQ	L MUKHIN	NASW 00028	269
79	ALBANY STATE UNIV	R J MCKINNEY	KSC	D HODGES-TILLER	NAG10 265	180
79	BETHUNE - COOKMAN COLLEGE	W B WILLIAMS	KSC	A D TAYLOR	NAG10 269	161
79	FLA INTERNATIONAL UNIV	R MCKINNEY	KSC	C MENDEZ	NAG10 254	163
79	FLORIDA A&M UNIV	R J MCKINNEY	KSC	S C MOBLEY	NAG10 267	164
79	GEORGE MASON UNIV	R H THOMAS	GSFC	B HAACK	NAG 5 4140	509
79	HAMPTON UNIV	R A HATHAWAY	LARC	R SCHWAN	NAG 1 2331	511
79	MIAMI-DADE COMM COLLEGE	D CULBERTSON	KSC	E J PADRON	NAG10 282	169
79	SAVANNAH STATE UNIV	R J MCKINNEY	KSC	D SAJWAN	NAG10 266	190
79	TUSKEGEE UNIV	C D BLACK	KSC	H J FINDLAY	NAG10 298	5
79	UNIV OF MICHIGAN - ANN ARBOR	J F DOWDY	MSFC	H T WRIGHT	NGT 8 52864	319
79	UTAH STATE UNIV	R MCKELLIP	SSC	D BAKER	NCC13 18	505
99	ALABAMA A&M UNIV	C PERSON	GSFC	A MANU	NAG 5 9885	1
99	ALABAMA A&M UNIV	M WEI	GSFC	T COLEMAN	NAG 5 10721	1
99	ALCORN STATE UNIV	N SULLIVAN	JSC	D ADDIE	NAG13 98010	326
99	ARIZONA STATE UNIV	A NURRIDDIN	HQ	R GREELEY	NGT 5 50077	24
99	ARIZONA STATE UNIV	A TUYAHOV	GSFC	D BOYER	NAG 5 10899	22
99	ARIZONA STATE UNIV	D SENSKE	GSFC	M A PRESLEY	NAG 5 10214	22
99	ARIZONA STATE UNIV	J BOYCE	GSFC	A S MCEWEN	NAG 5 10268	22
99	ARIZONA STATE UNIV	K BLANDING	GSFC	T SHARP	NGT 5 50276	24
99	ARIZONA STATE UNIV	M MEYER	GSFC	P KNAUTH	NAG 5 9430	21
99	ARIZONA STATE UNIV	M MEYER	GSFC	R BLANKENSHIP	NAG 5 10689	22
99	ARKANSAS TECH UNIV	J F DOWDY	MSFC	M CONNOR	NAG 8 1284	40
99	AUBURN UNIV	J E DUDENHOEFER	GRC	D W BRANDHORST	NCC 3 511	3
99	AUBURN UNIV	J HOWELL	MSFC	H BRANDHORST	NAG 8 1617	3
99	BALL STATE UNIV	D WICKLAND	GSFC	A F RAHMAN	NAG 5 11261	214
99	BAY MILLS COMM COLLEGE	M COMBERIETE	GSFC	R DICKINSON	NAG 5 8799	306
99	BAYLOR COLLEGE OF MED	C LLOYD	JSC	B A BRODY	NAG 9 1153	474
99	BETHUNE - COOKMAN COLLEGE	S DUTCZAK	KSC	A LONG	NCC10 55	162
99	BLUEFIELD STATE COLLEGE	M MATHEWS	GSFC	F WOOTEN BLANKS	NAG 5 11072	544
99	BOSTON COLLEGE	W J WAGNER	GSFC	D F WEBB	NAG 5 10833	276
99	BOSTON UNIV	D WICKLAND	GSFC	R B MYNENI	NAG 5 10156	279
99	BOSTON UNIV	J SHARBER	GSFC	G ERICKSON	NAG 5 9110	278
99	BOSTON UNIV	J SHARBER	GSFC	M MENDILLO	NAG 5 10286	279

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99	BOSTON UNIV	L SMITH	GSFC	L ODDSSON	NGT 5 50309	280
99	BOSTON UNIV	L SMITH	GSFC	M OPPENHEIM	NGT 5 50288	280
99	BOSTON UNIV	L SMITH	GSFC	S KANDARIAN	NGT 5 50307	280
99	BOSTON UNIV	M MELLOTT	GSFC	M OPPENHEIM	NAG 5 9444	279
99	BOSTON UNIV	M WEI	GSFC	C WOODSTOCK	NGT 5 30401	280
99	BOSTON UNIV	M WEI	GSFC	M FRIEDL	NGT 5 30405	280
99	BOWIE STATE UNIV	C HOLLINGSWORTH	GSFC	A L GASKINS-NEDD	NAG 5 9843	240
99	BOWIE STATE UNIV	D MENCHAN	GSFC	D LANGDON	NAG 5 9458	239
99	BOWIE STATE UNIV	D MENCHAN	GSFC	D LANGDON	NAG 5 10697	240
99	BOWIE STATE UNIV	D MENCHAN	GSFC	D W CRIM	NAG 5 8370	239
99	BOWIE STATE UNIV	D MENCHAN	GSFC	N T WAKIM	NCC 5 516	240
99	BOWIE STATE UNIV	L RANDOLPH	GSFC	N WAKIM	NCC 5 232	240
99	BOWIE STATE UNIV	P CROUSE	GSFC	N WAKIM	NAG 5 8787	239
99	BOWLING GREEN STATE UNIV	V L KLOERIS	JSC	D L HENTGES	NAG 9 1186	405
99	BROWN UNIV	D D DETROYE	GSFC	P H SCHULTZ	NGT 5 40106	460
99	BROWN UNIV	D DETROYE	GSFC	P H SCHULTZ	NGT 5 90014	460
99	BROWN UNIV	D E SMITH	GSFC	J W HEAD	NAG 5 6144	458
99	BROWN UNIV	H CARR	SSC	J F MUSTARD	NCC13 98005	460
99	BROWN UNIV	K BLANDING	HQ	R BRANDENBERGER	NGT 5 50355	460
99	CALIFORNIA INST OF TECH	B BETTS	GSFC	J L KIRSCHVINK	NAG 5 9687	46
99	CALIFORNIA INST OF TECH	D E SMITH	GSFC	D O MUHLEMAN	NAG 5 4437	43
99	CALIFORNIA INST OF TECH	D SENSKE	GSFC	T AHRENS	NAG 5 10198	47
99	CALIFORNIA INST OF TECH	G ASRAR	GSFC	Y L YUNG	NGT 5 30096	49
99	CALIFORNIA INST OF TECH	G STRINGFELLOW	GSFC	J ZMUIDZINAS	NAG 5 9493	46
99	CALIFORNIA INST OF TECH	J BOYCE	GSFC	A P INGERSOLL	NAG 5 11214	48
99	CALIFORNIA INST OF TECH	J BOYCE	HQ	A ALBEE	NAG 5 11257	48
99	CALIFORNIA INST OF TECH	J BREDEKAMP	GSFC	S DJORGOVSKI	NAG 5 9482	46
99	CALIFORNIA INST OF TECH	J BREDEKAMP	GSFC	S DJORGOVSKI	NAG 5 9603	46
99	CALIFORNIA INST OF TECH	J F SPANN	GSFC	Y L YUNG	NAG 5 10901	48
99	CALIFORNIA INST OF TECH	K BLANDING	GSFC	A ALBEE	NGT 5 60003	50
99	CALIFORNIA INST OF TECH	K BLANDING	GSFC	F CULICK	NGT 5 50280	50
99	CALIFORNIA INST OF TECH	K BLANDING	GSFC	G BLAKE	NGT 5 50231	49
99	CALIFORNIA INST OF TECH	K BLANDING	GSFC	M KAMIONKOWSKI	NGT 5 50339	50
99	CALIFORNIA INST OF TECH	L K SMITH	GSFC	A LANGE	NGT 5 50278	49
99	CALIFORNIA INST OF TECH	L SMITH	GSFC	A LANGE	NGT 5 50249	49
99	CALIFORNIA INST OF TECH	L SMITH	GSFC	N YEY	NGT 5 50308	50
99	CALIFORNIA INST OF TECH	M WEI	GSFC	J STOCK	NGT 5 30393	49
99	CALIFORNIA INST OF TECH	M WEI	GSFC	M SIMONS	NGT 5 30407	49
99	CALIFORNIA INST OF TECH	P DOTY	MSFC	D F BRADY	NAG 8 1237	48
99	CALIFORNIA INST OF TECH	T MORGAN	GSFC	M BROWN	NAG 5 11273	48
99	CALIFORNIA STATE UNIV - LOS ANGELES	B WHITE	GSFC	T ADENIKA-MORROW	NCC 5 439	52
99	CALIFORNIA STATE UNIV - LOS ANGELES	J MALONE	GSFC	H R BOUSSALIS	NAG 5 6757	52
99	CALIFORNIA STATE UNIV - LOS ANGELES	J MALONE	GSFC	H R BOUSSALIS	NAG 5 8889	52
99	CALIFORNIA STATE UNIV - LOS ANGELES	M MCCARTY	DFRC	T ADENIKA-MORROW	NAG 4 173	51
99	CALIFORNIA STATE UNIV - LOS ANGELES	M STOUTSENBERGER	GSFC	M EPSTEIN	NAG 5 9160	52
99	CALIFORNIA STATE UNIV - NORTHRIDGE	C PERSON	GSFC	B BAVARIAN	NCC 5 513	53
99	CALIFORNIA STATE UNIV - NORTHRIDGE	C PERSON	GSFC	S RENGARAJAN	NAG 5 9726	52
99	CALIFORNIA STATE UNIV - NORTHRIDGE	M MATTHEWS	GSFC	C SHUBIN	NCC 5 489	53
99	CALIFORNIA STATE UNIV - NORTHRIDGE	M MCCARTHY	DFRC	W FURUMOTO	NAG 4 162	52
99	CALIFORNIA STATE UNIV - NORTHRIDGE	R K DISMUKES	ARC	B TABACHIVIDE	NCC 2 1021	53
99	CALIFORNIA STATE UNIV - SACRAMENTO	DSIX	MSFC	B HAUSBACK	NAG 8 1220	53
99	CALIFORNIA STATE UNIV	C HILL	JSC	C LEE	NAG13 99010	53
99	CALIFORNIA STATE UNIV	M MC CARTHY	DFRC	E KRINSKY	NAG 4 161	53
99	CAPITOL COLLEGE	D JARRELL	GSFC	D MENCHAN	NAG 5 10560	240
99	CAPITOL COLLEGE	D MENCHAN	GSFC	D JARRELL	NAG 5 9375	240
99	CARNEGIE - MELLON UNIV	A KEYS	MSFC	L R CARLEY	NAG 8 1799	438
99	CARNEGIE - MELLON UNIV	J BREDEKAMP	GSFC	C GLYMOUR	NAG 5 9309	437
99	CARNEGIE - MELLON UNIV	K BLANDING	GSFC	A W MOORE	NGT 5 50279	439
99	CARNEGIE - MELLON UNIV	L SMITH	GSFC	J L ANDERSON	NGT 5 50054	439
99	CARNEGIE - MELLON UNIV	P E HUNTER	GSFC	R NICHOL	NAG 5 10740	437
99	CARNEGIE - MELLON UNIV	R E GABRYS	GSFC	P COPPIN	NCC 5 431	439
99	CASE WESTERN RESERVE UNIV	G STRINGFELLOW	GSFC	G STARKMAN	NAG 5 11059	407
99	CASE WESTERN RESERVE UNIV	K BLANDING	GSFC	J T	NGT 5 50369	409
99	CASE WESTERN RESERVE UNIV	M P WERNET	GRC	J R KADAMBI	NAG 3 2110	406
99	CAYUGA COUNTY COMM COLLEGE	D POWE	SSC	R FRESTOPKIK	NAG13 00043	367
99	CAYUGA COUNTY COMM COLLEGE	M MICK	SSC	R BROWER	NAG13 00044	367

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99	CHICAGO STATE UNIV	C PERSON	GSFC	R SOLAKIEWICZ	NAG 5 9734	200
99	CHRISTOPHER NEWPORT UNIV	D BUSHNELL	LARC	L LAMBERT	NAG 1 2284	507
99	CHRISTOPHER NEWPORT UNIV	D GABRYS	GSFC	N B FREEMAN	NCC 5 435	507
99	CITY UNIV OF NY HERBERT H	R F LAWRENCE	GRC	A L ROTHSETIN	NAG 3 2268	367
99	CITY UNIV COLLEGE OF NY YORK COLLEGE	M STOUTSENBERGER	GSFC	J SCHEIN	NAG 5 7532	367
99	CITY UNIV OF NY CITY COLLEGE	B WHITE	HQ	R KHANBILVARDI	NCC 5 344	368
99	CITY UNIV OF NY CITY COLLEGE	C PERSON	GSFC	F MOSHARY	NAG 5 9732	368
99	CITY UNIV OF NY CITY COLLEGE	J HARRINGTON	GSFC	S AUSTIN	NCC 5 530	368
99	CITY UNIV OF NY CITY COLLEGE	J MALONE	GSFC	R R ALFANO	NAG 5 6952	368
99	CITY UNIV OF NY CITY COLLEGE	M MATEU	GSFC	J BARBA	NAG 5 4911	368
99	CITY UNIV OF NY CITY COLLEGE	M MATEU	GSFC	J BARBA	NAG 5 10845	368
99	CITY UNIV OF NY CITY COLLEGE	R F LAWRENCE	GRC	L P JOHNSON	NAG 3 2258	367
99	CLARK ATLANTA UNIV	A C BEAM	MSFC	B E ALICK	NAG 8 1535	181
99	CLARK ATLANTA UNIV	M MATHEWS	GSFC	C H WILLIAMS	NCC 5 347	181
99	CLARK UNIV	G ASRAR	GSFC	B TURNER	NGT 5 30129	281
99	CLARK UNIV	G GUTMAN	GSFC	B TURNER	NAG 5 11134	281
99	CLARK UNIV	M Y WEI	GSFC	L LEWIS	NGT 5 30061	281
99	CLEMSON UNIV - CLEMSON	J KU	GSFC	D M OCHTERBECK	NAG 5 10367	463
99	CLEMSON UNIV - CLEMSON	M MELLOTT	GSFC	M HICKEY	NAG 5 10251	463
99	CLEMSON UNIV - CLEMSON	S DAVISON	GSFC	I D WALKER	NAG 5 8759	462
99	CLEVELAND STATE UNIV	D WHITE	GRC	D M KOCHER	NAG 3 2296	409
99	CLEVELAND STATE UNIV	M L BOROWSKI	GRC	P CHARITY	NAG 3 2075	409
99	CLEVELAND STATE UNIV	R C ALEXANDER	GRC	Z AUSTRIAN	NAG 3 2273	409
99	COLLEGE OF CHARLESTON	D DETROYE	GSFC	M COLGAN	NCC 5 413	464
99	COLLEGE OF CHARLESTON	D DETROYE	GSFC	M COLGAN	NCC 5 575	464
99	COLLEGE OF CHARLESTON	D DETROYE	GSFC	M COLGAN	NGT 5 40099	464
99	COLLEGE OF CHARLESTON	L KEFFER	GSFC	M COLGAN	NGT 5 40050	464
99	COLLEGE OF SANTA FE	L ARMENDARIZ	JSC	B COLEMAN	NAG 9 1066	360
99	COLLEGE OF WILLIAM AND MARY	T E PINELLI	LARC	M HINDERS	NGT 1 52204	508
99	COLLEGE OF WILLIAM AND MARY	W P CHU	LARC	D C BENNER	NAS 1 98039	508
99	COLORADO SCH OF MINES	D MCKAY	JSC	M B DUKE	NAG 9 1207	119
99	COLORADO STATE UNIV	J BOYCE	GSFC	J NELSON	NAG 5 11280	121
99	COLORADO STATE UNIV	K BLANDING	GSFC	J NELSON	NGT 5 50164	122
99	COLORADO STATE UNIV	M MELLOTT	GSFC	C SHE	NAG 5 10076	121
99	COLORADO STATE UNIV	M WEI	GSFC	A DENNING	NGT 5 30182	122
99	COLORADO STATE UNIV	M WEI	GSFC	R PIELKE	NGT 5 30344	122
99	COLUMBIA UNIV	E LINDSTROM	GSFC	X YUAN	NAG 5 8725	372
99	COLUMBIA UNIV	G ASRAR	GSFC	D SCHOSSER	NGT 5 30106	374
99	COLUMBIA UNIV	K E BLANDING	GSFC	S KAHN	NGT 5 50353	375
99	COLUMBIA UNIV	M WEI	GSFC	D PETEET	NGT 5 30226	375
99	COLUMBIA UNIV	M WEI	GSFC	M CANE	NGT 5 30123	374
99	CORNELL UNIV	D D DETROYE	GSFC	Y TERZIAN	NGT 5 40078	381
99	CORNELL UNIV	D DETROYE	GSFC	Y TERZIAN	NGT 5 40019	381
99	CORNELL UNIV	D G SICKOREZ	JSC	R W LANGHANS	NGT 9 16	382
99	CORNELL UNIV	D SENSKE	GSFC	P THOMAS	NAG 5 10168	379
99	CORNELL UNIV	G ASRAR	GSFC	B ISACKS	NGT 5 30126	381
99	CORNELL UNIV	G STRINGFELLOW	GSFC	S EIKENBERRY	NAG 5 10356	379
99	CORNELL UNIV	J GRANT	GSFC	W BOTTKE	NAG 5 8950	378
99	CORNELL UNIV	K BLANDING	GSFC	M H VAN DER MUELEN	NGT 5 50375	382
99	CORNELL UNIV	L SMITH	GSFC	M SALTZMAN	NGT 5 50270	382
99	CORNELL UNIV	R V MORRIS	JSC	R V MORRIS	NCC 9 89	381
99	CORNELL UNIV	S DAVISON	GSFC	C MONTEEMAGNO	NAG 5 8775	378
99	CUYAHOGA COMM COLLEGE	R F LAWRENCE	GRC	T L BUTLER	NAG 3 2496	412
99	CUYAHOGA COMM COLLEGE	R L BONDURANT	GRC	L L DARLING	NAS 3 98099	412
99	CUYAHOGA COMM COLLEGE	R LAWRENCE	GRC	S CHAND	NAG 3 2370	412
99	DARTMOUTH COLLEGE	M MELLOTT	GSFC	A V STRELTSOV	NAG 5 10216	344
99	DARTMOUTH COLLEGE	M MELLOTT	GSFC	M R LESSARD	NAG 5 10219	344
99	DINE COLLEGE	R TRAVIS	JSC	D ISELY	NAG13 99028	24
99	DUKE UNIV	G ASRAR	GSFC	D RICHTER	NGT 5 30117	395
99	DUKE UNIV	L SMITH	GSFC	G TRUSKEY	NGT 5 50266	396
99	DUKE UNIV	M GERNHARDT	JSC	R VANN	NCC 9 83	395
99	DUKE UNIV	M MELLOTT	GSFC	S CUMMER	NAG 5 10270	395
99	DUKE UNIV	M WEI	GSFC	D REYNOLDS	NGT 5 30105	395
99	DUKE UNIV	M WEI	GSFC	S ROJSTACZER	NGT 5 30379	396
99	DUKE UNIV	M WEI	GSFC	W H SCHESSINGER	NGT 5 30397	396
99	EASTERN NEW MEX. UNIV - MAIN CAMP.	L ARMENDARIZ	JSC	J MILLER	NAG 9 972	360

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99	EASTERN WASHINGTON UNIV	D JAMES	ARC	R SOLTERO	NAG 2 6041	533
99	ELIZABETH CITY STATE UNIV	J HARRINGTON	GSFC	L HAYDEN	NCC 5 533	396
99	ELIZABETH CITY STATE UNIV	STOUTSENBERGER	GSFC	S SACHDEV	NAG 5 6814	396
99	EMBRY-RIDDLE AERONAUTICAL UNIV	M MELLOTT	GSFC	G G SIVJEE	NAG 5 10066	162
99	FAYETTEVILLE STATE UNIV	M STOUTSENBERGER	GSFC	L EDWARDS	NAG 5 9155	397
99	FISK UNIV	C HUA SU	MSFC	A BURGER	NCC 8 195	467
99	FLA INTERNATIONAL UNIV	B J COLLINS	ARC	X HE	NAG 2 1440	162
99	FLA INTERNATIONAL UNIV	D MENCHAN	GSFC	N RISHE	NAG 5 9478	162
99	FLA INTERNATIONAL UNIV	H T STEWART	ARC	I R FERNANDEZ	NAG 2 1384	162
99	FLA INTERNATIONAL UNIV	R MC KINNEY	KSC	C MENDEZ	NAG10 251	163
99	FLORIDA A&M UNIV	B J COLLINS	ARC	M ENCINOSA	NAG 2 1439	163
99	FLORIDA A&M UNIV	E JOHNSON	KSC	B SAMUELS	NAG10 242	164
99	FLORIDA A&M UNIV	J E BOYD	GRC	F S HUMPHRIES	NAG 3 1759	163
99	FLORIDA A&M UNIV	J L HARRINGTON, JR.	GSFC	D H AMMONS	NAG 5 7989	163
99	FLORIDA A&M UNIV	J MALONE	GSFC	J H AMMONS	NAG 5 9119	163
99	FLORIDA A&M UNIV	J MALONE	GSFC	J ZHENG	NAG 5 9420	164
99	FLORIDA A&M UNIV	J MALONE	GSFC	K H PHIFER-MCGHEE	NAG 5 10726	164
99	FLORIDA ATLANTIC UNIV	T H MAIER	ARC	G H GEONKAR	NCC 2 5264	165
99	FLORIDA INST OF TECH	J MEDINA	KSC	R LANIER	NGT10 52621	166
99	FLORIDA INST OF TECH	L SMITH	GSFC	C HELMSTETTER	NGT 5 50257	165
99	FLORIDA INST OF TECH	L SMITH	GSFC	T OSWALT	NGT 5 50290	165
99	FLORIDA INST OF TECH	R WHEELER	KSC	M BUSH	NGT10 52622	166
99	FLORIDA INST OF TECH	W WAGNER	GSFC	M ZHANG	NAG 5 11036	165
99	FLORIDA STATE UNIV	G ASRAR	GSFC	E SMITH	NGT 5 30116	169
99	FLORIDA STATE UNIV	M WEI	GSFC	J O	NGT 5 30370	169
99	FOOTHILL-DE ANZA COM COL SYS OFF	G JAMES	ARC	M P CONRAD	NGT 2 52280	53
99	FOOTHILL-DE ANZA COM COL SYS OFF	M E LOPEZ	ARC	M CONWAY	NGT 2 1001	53
99	FRANKLIN-MARSHALL COLLEGE	L CAROFF	ARC	D BACKMAN	NCC 2 5365	441
99	FULTON-MONTGOMERY COMM COLLEGE	D L POWE	SSC	M PRESTOPNIK	NAG13 00007	382
99	FURMAN UNIV	R K DISMUKES	ARC	G O EINSTEIN	NCC 2 1085	465
99	GEORGE MASON UNIV	A J MATURO	GSFC	R R STOUGH	NCC 5 360	510
99	GEORGE MASON UNIV	M MAIDEN	GSFC	M KAFATOS	NCC 5 306	510
99	GEORGE MASON UNIV	M MELLOTT	GSFC	M E SUMMERS	NAG 5 9669	509
99	GEORGE WASHINGTON UNIV	D DETROYE	GSFC	J M LOGSDON	NGT 5 40058	154
99	GEORGE WASHINGTON UNIV	D JAN	NMO	J H MILLER	NAG 9 1185	153
99	GEORGE WASHINGTON UNIV	E T SCHWARTZ	HQ	J M LOGSDON	NGT 40056	153
99	GEORGE WASHINGTON UNIV	J BOYCE	GSFC	G KEATING	NAG 5 11175	152
99	GEORGE WASHINGTON UNIV	J I TROMBKA	GSFC	D A ROWLEY	NAG 5 10417	152
99	GEORGE WASHINGTON UNIV	R A HATHAWAY	LARC	J WHITESIDES	NCC 1 01020	153
99	GEORGIA INST OF TECH	C GRIFFIN	KSC	D BRIDGES	NAS10 01025	185
99	GEORGIA INST OF TECH	D D DETROYE	GSFC	E ARMANIOS	NGT 5 40116	187
99	GEORGIA INST OF TECH	D DETROYE	GSFC	E ARMANIOS	NGT 5 40023	187
99	GEORGIA INST OF TECH	G ASRAR	GSFC	D WINE	NGT 5 30069	187
99	GEORGIA INST OF TECH	J E GARDNER	LARC	B V GIBBENS	NGT 1 52162	186
99	GEORGIA INST OF TECH	J HOWELL	MSFC	J OLDS	NAG 8 1713	185
99	GEORGIA INST OF TECH	K BLANDING	GSFC	P NEITZEL	NGT 5 50363	188
99	GEORGIA INST OF TECH	L SMITH	GSFC	R FUJIMOTO	NGT 5 50284	187
99	GEORGIA INST OF TECH	M WEI	GSFC	L HUEY	NGT 5 30384	187
99	GEORGIA INST OF TECH	R A LEPSCH	LARC	K A CUNEFARE	NGT 1 52167	186
99	GLENDALE COMM COLLEGE	H KASS	GSFC	L SEROT	NAG 5 9700	53
99	HAMPTON UNIV	B W MEESON	GSFC	J RUSSELL	NAG 5 11126	512
99	HAMPTON UNIV	B WHITE	HQ	D A TEMPLE	NCC 5 348	513
99	HAMPTON UNIV	C P HOLMES	GSFC	S M BAILEY	NAG 5 10063	512
99	HAMPTON UNIV	C S PERSON	GSFC	C L REAVES	NAG 5 10015	512
99	HAMPTON UNIV	M STOUTSENBERGER	GSFC	C RANKINS	NAG 5 9156	512
99	HAMPTON UNIV	N KHAZENIE	GSFC	D A TEMPLE	NAG 5 6296	512
99	HAMPTON UNIV	R A HATHAWAY	LARC	C LOWE	NCC 1 379	513
99	HAMPTON UNIV	R A HATHAWAY	LARC	R SCHWAN	NAG 1 01089	511
99	HAMPTON UNIV	R A HATHAWAY	LARC	R SCHWAN	NCC 1 01034	513
99	HAMPTON UNIV	R HATHAWAY	LARC	C LOWE	NAG 1 2207	511
99	HAMPTON UNIV	R HATHAWAY	LARC	D DEPRIEST	NCC 1 358	513
99	HAMPTON UNIV	S MOSSENBERG	LARC	C REEVES	NAG 1 2256	511
99	HARVARD UNIV	A NURRIDIN	GSFC	J GRINDLEY	NGT 5 50020	286
99	HARVARD UNIV	A NURRIDIN	GSFC	L HERNQUIST	NGT 5 50028	286
99	HARVARD UNIV	D E WICKLAND	GSFC	S C WOFSY	NAG 5 11154	285

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99	HARVARD UNIV	L SMITH	GSFC	R KIRSHNER	NGT 5 50244	286
99	HARVARD UNIV	L SMITH	GSFC	W H PARKINSON	NGT 5 50258	286
99	HARVARD UNIV	M WEI	GSFC	J ANDERSON	NGT 5 30410	286
99	HARVARD UNIV	M WEI	GSFC	S WOFYSY	NGT 5 30366	286
99	HARVARD UNIV	P DECOLA	GSFC	D JACOB	NAG 5 11270	285
99	HARVARD UNIV	P R HOUSER	GSFC	A P BARROS	NAG 5 10792	285
99	HERITAGE COLLEGE	B J COLLINS	ARC	P T ALEXANDER	NAG 2 6034	533
99	HOUSTON COMM COLLEGE	M MATEU	GSFC	C GARCIA	NAG 5 8566	475
99	HOUSTON COMM COLLEGE	M MATEU	GSFC	C GARCIA	NAG 5 10239	475
99	HOWARD UNIV	C PERSON	GSFC	A N THORPE	NAG 5 10675	155
99	HOWARD UNIV	D MENCHAN	GSFC	D WOODARD	NAG 5 7384	155
99	HOWARD UNIV	D MENCHAN	GSFC	M C WOODARD	NAG 5 10838	155
99	HOWARD UNIV	D MENCHAN	GSFC	W WOODARD	NAG 5 9279	155
99	HOWARD UNIV	G A SOFFEN	GSFC	A N THORPE	NCC 5 184	155
99	HOWARD UNIV	G COOPER	ARC	P HAMBRIGHT	NAG 2 1526	154
99	HOWARD UNIV	M S BURRELL	GSFC	J B HALPERN	NGT 5 77	156
99	HOWARD UNIV	M S BURRELL	GSFC	J B HALPERN	NGT 5 113	156
99	HUNTER COLL OF THE CITY UNIV OF NY	J F DOWDY	MSFC	L COHEN	NAG 8 1259	382
99	ILLINOIS STATE UNIV	J SHARBER	GSFC	D HOLLAND	NAG 5 9584	200
99	INDIANA UNIV	K BLANDING	GSFC	R DUNCAN	NGT 5 50366	215
99	INDIANA UNIV	K BLANDING	GSFC	W WAGNER	NGT 5 50373	215
99	INTER AMER U OF PR AGUADILLA CAMP	M STOUTSENBERGER	HQ	R GONZALEZ	NAG 5 9311	382
99	IOWA STATE UNIV	D D DETROYE	GSFC	W J BYRD	NGT 5 40081	224
99	IOWA STATE UNIV	D DETROYE	GSFC	W J BYRD	NGT 5 40027	224
99	IOWA STATE UNIV	G FOGELMAN	GSFC	M PORTER	NAG 5 8892	223
99	JACKSON STATE UNIV	A JOYCE	SSC	A K MOHAMED	NAG13 98007	326
99	JACKSON STATE UNIV	A JOYCE	SSC	H GORE	NAG13 99004	326
99	JAMES MADISON UNIV	J JOHNSON	GSFC	J BLANDINO	NAG 5 10701	513
99	JAMES MADISON UNIV	R A HATHAWAY	LARC	A A TEATE	NAG 1 2155	513
99	JARVIS CHRISTIAN COLLEGE	L ARMENDARIZ	JSC	M J MCKINNEY	NAG 9 1065	475
99	JOHNS HOPKINS UNIV	D D DETROYE	GSFC	R C HENRY	NGT 5 40079	252
99	JOHNS HOPKINS UNIV	D GOLOMBEKS	GSFC	S KRIMIGIS	NAG 5 9367	246
99	JOHNS HOPKINS UNIV	D R MENGERS	GSFC	D MOOS	NAG 5 3448	242
99	JOHNS HOPKINS UNIV	J F SPANN	GSFC	J M RUOHONIEMI	NAG 5 10902	250
99	JOHNS HOPKINS UNIV	J SHARBER	GSFC	B MAUK	NAG 5 10281	248
99	JOHNS HOPKINS UNIV	J SHARBER	GSFC	D G SIBECK	NAG 5 10285	248
99	JOHNS HOPKINS UNIV	J SHARBER	GSFC	K TAKAHASHI	NAG 5 8964	245
99	JOHNS HOPKINS UNIV	J SHARBER	GSFC	S OHTANI	NAG 5 10941	250
99	JOHNS HOPKINS UNIV	K BLANDING	GSFC	P C SEARSON	NGT 5 50372	253
99	JOHNS HOPKINS UNIV	L KEFFER	GSFC	R C HENRY	NGT 5 40029	252
99	JOHNS HOPKINS UNIV	L SMITH	GSFC	K J STEBE	NGT 5 50259	252
99	JOHNS HOPKINS UNIV	L SMITH	GSFC	K J STEBE	NGT 5 50268	253
99	JOHNS HOPKINS UNIV	M KURYLO	GSFC	S A LLOYD	NAG 5 11035	250
99	JOHNS HOPKINS UNIV	M MELLOTT	GSFC	R A GREENWALD	NAG 5 10060	247
99	JOHNS HOPKINS UNIV	P DECOLA	GSFC	D WAUCH	NAG 5 11283	251
99	JOHNS HOPKINS UNIV	P DECOLA	GSFC	W SWARTZ	NAG 5 11297	251
99	JOHNS HOPKINS UNIV	W ABDALATI	GSFC	R RANEY	NAG 5 10261	248
99	JOHNS HOPKINS UNIV	W J WAGNER	GSFC	D LARIO	NAG 5 10787	249
99	JOHNS HOPKINS UNIV	W J WAGNER	GSFC	G HO	NAG 5 10836	250
99	LINCOLN UNIV - PA	D MENCHAN	GSFC	R LANGLEY	NAG 5 10172	441
99	LOUISIANA STATE UNIV - BATON ROUGE	D DETROY	HQ	J WEFEL	NCC 5 393	235
99	LOUISIANA STATE UNIV - BATON ROUGE	D DETROYE	GSFC	J P WEFEL	NCC 5 167	235
99	LOUISIANA STATE UNIV - BATON ROUGE	D DETROYE	GSFC	J P WEFEL	NGT 5 40035	235
99	LOUISIANA STATE UNIV - BATON ROUGE	D DETROYE	HQ	J WEFEL	NGT 5 40115	235
99	MARIST COLLEGE	M MEYER	GSFC	R KEPNER	NAG 5 9889	382
99	MARQUETTE UNIV	C W LLOYD	JSC	R H FITTS	NAG 9 1156	546
99	MASSACHUSETTS INST OF TECH	D D DETROYE	GSFC	L YOUNG	NGT 5 40075	299
99	MASSACHUSETTS INST OF TECH	D E SMITH	GSFC	G H PETTENGILL	NAG 5 4434	290
99	MASSACHUSETTS INST OF TECH	D E SMITH	GSFC	M T ZUBER	NAG 5 4806	290
99	MASSACHUSETTS INST OF TECH	D E SMITH	GSFC	M T ZUBER	NAG 5 11113	296
99	MASSACHUSETTS INST OF TECH	D SENKE	GSFC	A RIVKIN	NAG 5 10328	295
99	MASSACHUSETTS INST OF TECH	K OGILVIE	GSFC	A LARARUS	NAG 5 7359	291
99	MASSACHUSETTS INST OF TECH	L KEFFER	GSFC	L R YOUNG	NGT 5 40048	299
99	MASSACHUSETTS INST OF TECH	L SMITH	GSFC	J B HOWARD	NGT 5 50302	300
99	MASSACHUSETTS INST OF TECH	L SMITH	GSFC	M FLEMINGS	NGT 5 50306	300
99	MASSACHUSETTS INST OF TECH	M KURYLO	GSFC	J I STEINFELD	NAG 5 10613	295

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99	MASSACHUSETTS INST OF TECH	M MEYER	GSFC	J GROTZINGER	NAG 5 9445	294
99	MASSACHUSETTS INST OF TECH	M SISTILLI	GSFC	S C TING	NAG 5 10711	295
99	MASSACHUSETTS INST OF TECH	P DECOLA	GSFC	R A PLUMB	NAG 5 11285	296
99	MASSACHUSETTS INST OF TECH	R CROUCH	GSFC	G MCKINLEY	NAG 5 8776	293
99	MASSACHUSETTS INST OF TECH	T MATURO	GSFC	J KLEIN	NAG 5 11268	296
99	MEDGAR EVERS COLLEGE	M STOUTSENBERGER	HQ	L JOHNSON	NAG 5 9256	382
99	MICHIGAN STATE UNIV	A NURRIDIN	HQ	P WEBBER	NGT 5 50150	308
99	MICHIGAN STATE UNIV	D S MCKAY	JSC	M A VELBEL	NAG 9 1211	308
99	MICHIGAN STATE UNIV	G GUTMAN	GSFC	J LIU	NAG 5 10200	307
99	MICHIGAN STATE UNIV	K BLANDING	GSFC	P PIERRE	NGT 5 50378	308
99	MICHIGAN STATE UNIV	M MAIDEN	GSFC	D SKOLE	NCC 5 303	308
99	MICHIGAN STATE UNIV	R GRYMES	ARC	M THOMASHOW	NCC 2 1274	308
99	MICHIGAN STATE UNIV	S OLSON	GRC	I S WICHMAN	NCC 3 662	308
99	MICHIGAN TECHNOLOGICAL UNIV	M WEI	GSFC	R SHAW	NAG 5 10568	309
99	MISSISSIPPI STATE UNIV	H CARR	SSC	D SHAW	NCC13 99001	328
99	MISSISSIPPI STATE UNIV	M MATHEWS	GSFC	B JOINER	NAG 5 11127	327
99	MISSISSIPPI VALLEY STATE UNIV	C PERSON	GSFC	C BLAND	NAG 5 9535	328
99	MISSISSIPPI VALLEY STATE UNIV	M STOUTSENBERGER	GSFC	C BLAND	NAG 5 9197	328
99	MISSISSIPPI VALLEY STATE UNIV	N S SULLIVAN	SSC	S J WHITE	NAG13 99003	328
99	MISSISSIPPI VALLEY STATE UNIV	N SULLIVAN	JSC	S J WHITE	NAG13 51	328
99	MONTANA STATE UNIV	D D DETROYE	GSFC	W HISCOCK	NGT 5 40092	338
99	MONTANA STATE UNIV	D DETROYE	GSFC	W A HISCOCK	NGT 5 40036	338
99	MONTANA STATE UNIV	D DETROYE	GSFC	W HISCOCK	NCC 5 410	338
99	MONTANA STATE UNIV	D DETROYE	GSFC	W HISCOCK	NCC 5 579	338
99	MONTANA STATE UNIV	D JAN	JPL	B H PYLE	NAG 9 1082	337
99	MONTANA STATE UNIV	E T SCHWARTZ	HQ	W A HISCOCK	NGT 40041	338
99	MONTANA STATE UNIV	L SMITH	GSFC	J C PRISCU	NGT 5 50297	338
99	MONTANA STATE UNIV	M V PHELPS	GSFC	G TUTHILL	NAG 5 4576	337
99	MONTANA STATE UNIV	R A GRYMES	ARC	D L DICKENSHEETS	NCC 2 5437	338
99	MONTANA STATE UNIV	W WALTER	GSFC	D LONGCOPE	NAG 5 10489	337
99	MOREHOUSE SCH MED	B J COLLINS	ARC	M THIERRY-PALMER	NAG 2 1381	189
99	MOREHOUSE SCH MED	C E WADE	ARC	B J KLEMENT	NAG 2 1448	189
99	MORGAN STATE UNIV	B WHITE	GSFC	D N WILLIAMS	NAG 5 10947	254
99	MORGAN STATE UNIV	C PERSON	GSFC	D N WILLIAMS	NAG 5 9710	253
99	MORGAN STATE UNIV	D MENCHAN	GSFC	H WILLIAMS	NAG 5 8860	253
99	MORGAN STATE UNIV	J HARRINGTON	GSFC	W LUPTON	NCC 5 532	254
99	MORGAN STATE UNIV	K KRISHEN	JSC	J E WHITNEY	NAG 9 998	254
99	MORGAN STATE UNIV	P HOLLOWAY	GSFC	H WILLIAMS	NAG 5 8574	253
99	MT SINAI SCH OF MED OF THE CUNY	A M LEE	JSC	D COHEN	NAS 9 19441	383
99	NEW JERSEY INST OF TECH	P DOTY	MSFC	E DREIZIN	NAG 8 1714	351
99	NEW JERSEY INST OF TECH	W WAGNER	GSFC	D E GARY	NAG 5 10212	351
99	NEW MEXICO HIGHLANDS UNIV	G HENDERSEN	JSC	J R JUAREZ	NAG 9 1260	361
99	NEW MEXICO HIGHLANDS UNIV	J MALONE	GSFC	R CLARK	NAG 5 6532	360
99	NEW MEXICO HIGHLANDS UNIV	L ARMENDARIZ	JSC	J JUAREZ	NAG 9 1195	361
99	NEW MEXICO HIGHLANDS UNIV	L ARMENDARIZ	JSC	J R JUAREZ	NAG 9 1921	361
99	NEW MEXICO HIGHLANDS UNIV	L M ARMENDARIZ	JSC	J R JUAREZ	NAG 9 1330	361
99	NEW MEXICO HIGHLANDS UNIV	P SAKIMOTO	GSFC	J C	NGT 5 90069	361
99	NEW MEXICO HIGHLANDS UNIV	PBAKER	WFF	J JUAREZ	NAG 9 1369	361
99	NEW MEXICO STATE UNIV - LAS CRUCES	A NURRIDIN	GSFC	S CASTILLO	NGT 5 50117	363
99	NEW MEXICO STATE UNIV - LAS CRUCES	B J COLLINS	ARC	G V GARCIA	NAG 2 6030	362
99	NEW MEXICO STATE UNIV - LAS CRUCES	B WHITE	GSFC	H BAPTISTE	NCC 5 466	363
99	NEW MEXICO STATE UNIV - LAS CRUCES	D BOGAN	GSFC	M MARLEY	NAG 5 8919	363
99	NEW MEXICO STATE UNIV - LAS CRUCES	D D DETROYE	GSFC	P HYNES	NGT 5 40087	363
99	NEW MEXICO STATE UNIV - LAS CRUCES	D DETROYE	GSFC	P HYNES	NGT 5 40061	363
99	NEW MEXICO STATE UNIV - LAS CRUCES	D M RUSSO	JSC	G A EICEMAN	NAG 9 1291	363
99	NORFOLK STATE UNIV	B L WHITE	GSFC	G GOLEMBIEWSKI	NAG 5 9257	514
99	NORFOLK STATE UNIV	C PERSON	GSFC	L MATTIX	NCC 5 514	515
99	NORFOLK STATE UNIV	M MATTHEWS	GSFC	L MATTIX	NCC 5 457	515
99	NORFOLK STATE UNIV	N KHAZENIE	GSFC	S CHAUDHURY	NAG 5 8541	514
99	NORFOLK STATE UNIV	R A HATHAWAY	LARC	P TUCKER-HOGAN	NCC 1 391	515
99	NORFOLK STATE UNIV	R A HATHAWAY	LARC	P TUCKER-HOGAN	NCC 1 01053	515
99	NORFOLK STATE UNIV	R A HATHAWAY	LARC	R TUCKER-HOGAN	NCC 1 338	515
99	NORFOLK STATE UNIV	R A HATHAWAY	LARC	W RODRIGUEZ	NCC 1 01055	515
99	NORFOLK STATE UNIV	S CANRIGHT	LARC	C COLEMAN	NAG 1 1948	514
99	NORTH CAROLINA A&T STATE UNIV	B WHITE	GSFC	J D MONROE	NCC 5 349	399
99	NORTH CAROLINA A&T STATE UNIV	C WILKERSON	MSFC	D J SCHULZ	NAG 8 1247	398

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99	NORTH CAROLINA A&T STATE UNIV	D F NOGA	GRC	Y ELLEN	NAG 3 2165	397
99	NORTH CAROLINA A&T STATE UNIV	J D ERICK SUN	JSC	B RAM	NAG 9 973	398
99	NORTH CAROLINA A&T STATE UNIV	J MALONE	GSFC	N DOGAN	NAG 5 9419	398
99	NORTH CAROLINA STATE UNIV	A GHASSEM	GSFC	D REICHLER	NGT 5 30054	402
99	NORTH CAROLINA STATE UNIV	C	ARC	D W BRENNER	NAG 2 1119	400
99	NORTH CAROLINA STATE UNIV	D D DETROYE	GSFC	F R DEJARNETTE	NGT 5 40109	402
99	NORTH CAROLINA STATE UNIV	D DETROYE	GSFC	F R DEJARNETTE	NGT 5 40011	402
99	NORTH CAROLINA STATE UNIV	J A WHITE	LARC	J R EDWARDS	NAG 1 2216	399
99	NORTH CAROLINA STATE UNIV	J BREDEKAMP	GSFC	K J BORKOWSKI	NAG 5 9490	400
99	NORTH CAROLINA STATE UNIV	S SPEARMAN	MSFC	K J BACHMANN	NCC 8 95	401
99	NORTHERN ARIZONA UNIV	D BOGAN	GSFC	R YELLE	NAG 5 9214	24
99	NORTHERN ARIZONA UNIV	J HILMAN	GSFC	C GRIFFITH	NAG 5 11239	25
99	NORTHWEST INDIAN COLLEGE	M JASINSKI	GSFC	G BLEDSOE	NCC 5 423	533
99	NORTHWESTERN UNIV	K BLANDING	GSFC	P VOORHEES	NGT 5 50368	203
99	NORTHWESTERN UNIV	L SMITH	GSFC	B J MATKOWSKY	NGT 5 50263	203
99	OAKWOOD COLLEGE	G HAMILTON	MSFC	K BENN-MARSHALL	NAG 8 1600	4
99	OGLALA LAKOTA COLLEGE	D MENCHAN	GSFC	S PHELPS	NAG 5 10935	466
99	OGLALA LAKOTA COLLEGE	T GULL	GSFC	J HAAS	NAG 5 7548	466
99	OHIO STATE UNIV	A NURRIDIN	HQ	M EVANS	NGT 5 50015	419
99	OHIO STATE UNIV	G STRINGFELLO	GSFC	E HERBST	NAG 5 10207	417
99	OHIO STATE UNIV	K PARTINGTON	GSFC	K JEZEK	NAG 5 10112	417
99	OHIO STATE UNIV	L SMITH	GSFC	E MOSLEY-THOMPSON	NGT 5 30178	418
99	OHIO STATE UNIV	M WEI	GSFC	D BRZEZINSKA	NAG 5 10619	417
99	OHIO STATE UNIV	W ABDALATI	GSFC	B CSATHO	NAG 5 10199	417
99	OHIO STATE UNIV	W ABDALATI	GSFC	D BROMWICH	NAG 5 10160	417
99	OHIO STATE UNIV	W ABDALATI	GSFC	E MOSLEY-THOMPSON	NAG 5 10266	417
99	OHIO STATE UNIV	W ABDALTI	GSFC	K JEZEK	NAG 5 10275	417
99	OHIO WESLEYAN UNINERITY	J ROSENDHAL	HQ	W LOUTHAN	NAG 5 10453	420
99	OKLAHOMA STATE UNIV	C W LLOYD	JSC	B J STOECKER	NAG 9 1159	428
99	OKLAHOMA STATE UNIV	L BILBROUGH	HQ	K WIGGINS	NASW 5043	429
99	OKLAHOMA STATE UNIV	L BILLBROUGH	GSFC	T COLLINS	NCC 5 561	429
99	OKLAHOMA STATE UNIV	P L MOUNTJOY	GSFC	K E WIGGINS	NCC 5 185	429
99	OLD DOMINION UNIV	D DETROYE	GSFC	M SANDY	NGT 5 40070	521
99	OLD DOMINION UNIV	D DETROYE	GSFC	M SANDY	NGT 5 40080	521
99	OLD DOMINION UNIV	D L HARM	JSC	R B LOFTIN	NCC 9 135	520
99	OLD DOMINION UNIV	J GORMAN	GSFC	M SANDY	NCC 5 592	520
99	OLD DOMINION UNIV	J L BURT	LARC	M SCERBO	NGT 1 01005	520
99	OLD DOMINION UNIV	J MARRA	GSFC	E HOFMANN	NAG 5 11259	518
99	OLD DOMINION UNIV	L KEFFER	GSFC	M L SANDY	NGT 5 40059	521
99	OLD DOMINION UNIV	R A HATHAWAY	LARC	B TIWARI	NCC 1 01043	519
99	OLD DOMINION UNIV	R A HATHAWAY	LARC	S N TUIVORE	NGT 1 52208	521
99	ORAL ROBERTS UNIV	R HARMAN	GSFC	D HALSMER	NAG 5 7378	429
99	OREGON STATE UNIV	D D DETROYE	GSFC	A C KLEIN	NGT 5 40103	434
99	OREGON STATE UNIV	D DETROYE	GSFC	A C KLEIN	NGT 5 40022	434
99	OREGON STATE UNIV	D WICKLAND	GSFC	B LAW	NAG 5 11223	433
99	OREGON STATE UNIV	D WICKLAND	GSFC	D P TURNER	NAG 5 11222	433
99	OREGON STATE UNIV	D WICKLAND	GSFC	L MAHRT	NAG 5 11231	433
99	OREGON STATE UNIV	G GUTMAN	GSFC	O N KRANKINA	NAG 5 10614	433
99	OREGON STATE UNIV	J MARRA	GSFC	Y SPITZ	NAG 5 11190	433
99	OREGON STATE UNIV	M MEYER	GSFC	M FISK	NAG 5 9446	432
99	OREGON STATE UNIV	M WEI	GSFC	W PEGAU	NGT 5 30347	434
99	OREGON STATE UNIV	M Y WEI	GSFC	B BOND	NGT 5 30181	434
99	OREGON STATE UNIV	N SOVIK	SSC	KIMERLING	NCC13 98004	434
99	OREGON STATE UNIV	R K DISMUKES	ARC	K H FUNK	NAG 2 1287	431
99	OREGON STATE UNIV	W WEI	GSFC	L MAHRT	NGT 5 30387	434
99	OUR LADY OF THE LAKE UNIV	L ARMENDARIZ	JSC	K A WARD	NAG 9 1170	475
99	PAINE COLLEGE	M STOUTSENBERGER	GSFC	R KESSLER	NAG 5 9157	189
99	PASADENA CITY COLLEGE	P J SAKIMOTO	GSFC	J SEPIKAS	NAG 5 11197	54
99	PASSAIC COUNTY COMM COLLEGE	STOUTSENBERGER	HQ	R EPSTEIN	NAG 5 9103	351
99	PENN STATE UNIV -HERSHEY MED	C W LLOYD	JSC	D MACLEAN	NAG 9 1259	442
99	PENN STATE UNIV -HERSHEY MED	L SMITH	GSFC	C CHENGE	NGT 5 50264	442
99	PENN STATE UNIV	D DETROYE	GSFC	R DEVON	NGT 5 40090	451
99	PENN STATE UNIV	D GOLOMBEK	GSFC	G BABU	NAG 5 10542	448
99	PENN STATE UNIV	J DASCH	HQ	R DEVON	NGT 5 40064	451
99	PENN STATE UNIV	J F DOWDY	MSFC	G SUBRAMANIAM	NAG 8 1286	448
99	PENN STATE UNIV	K BLANDING	GSFC	M BERSHADY	NGT 5 50236	452

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99	PENN STATE UNIV	L K SMITH	GSFC	W BRANDT	NGT 5 50277	452
99	PENN STATE UNIV	L SMITH	GSFC	N BRANDT	NGT 5 50247	452
99	PENN STATE UNIV	L SMITH	GSFC	P N WALKER	NGT 5 50272	452
99	PENN STATE UNIV	L SMITH	GSFC	S COUTU	NGT 5 50296	452
99	PENN STATE UNIV	L SMITH	HQ	S BRANTLEY	NGT 5 50178	452
99	PENN STATE UNIV	M MC CARTHY	DFRC	B GRABOWSKI	NAG 4 160	444
99	PENN STATE UNIV	M WEI	GSFC	A BARROS	NGT 5 30060	451
99	PENN STATE UNIV	P CRANE	GSFC	R A WADE	NAG 5 9586	447
99	PENN STATE UNIV	R E GABRYS	GSFC	D L GRABOWSKI	NCC 5 432	450
99	POMONA COLLEGE	D SENSKE	GSFC	E GROSFILS	NAG 5 10157	54
99	PORTLAND STATE UNIV	M MEYER	GSFC	S CADY	NAG 5 9579	434
99	PORTLAND STATE UNIV	W ABDALATI	GSFC	C HULBE	NAG 5 11309	434
99	PORTLAND STATE UNIV	Y F SIAMAK	ARC	D M RAFFO	NCC 2 1152	434
99	PRAIRIE VIEW A&M UNIV	A JOYCE	SSC	S SHAKIR	NAG13 46	476
99	PRAIRIE VIEW A&M UNIV	J HARRINGTON	GSFC	J WILLIAMS	NCC 5 529	476
99	PRAIRIE VIEW A&M UNIV	J MALONE	GSFC	R WILKINS	NAG 5 11070	476
99	PRINCETON UNIV	J MARRA	GSFC	M BENDER	NAG 5 11301	354
99	PRINCETON UNIV	K BLANDING	GSFC	D SAVILLE	NGT 5 50370	356
99	PRINCETON UNIV	K BLANDING	GSFC	E CHOU EIRI	NGT 5 50356	356
99	PRINCETON UNIV	M MELLOTT	GSFC	J R JOHNSON	NAG 5 10217	354
99	PRINCETON UNIV	M WEI	GSFC	S HUBBELL	NGT 5 30113	355
99	PURDUE UNIV	B J WOOLFORD	JSC	G SALVENDY	NAG 9 1281	219
99	PURDUE UNIV	D DETROYE	GSFC	D ANDRISANI	NGT 5 40114	220
99	PURDUE UNIV	D FOLTA	GSFC	K C HOWELL	NCC 5 358	219
99	PURDUE UNIV	D SENSKE	GSFC	B PICKETT	NAG 5 10262	218
99	PURDUE UNIV	J M BOYCE	GSFC	J SHAN	NAG 5 11080	219
99	PURDUE UNIV	K BLANDING	GSFC	J M LONGUSKI	NGT 5 50275	220
99	PURDUE UNIV	K BLANDING	GSFC	T ZWEIR	NGT 5 50336	220
99	PURDUE UNIV	L KEFFER	GSFC	D ANDRISANI	NGT 5 40043	220
99	PURDUE UNIV	M MEYER	GSFC	J A CHMIELEWSKI	NAG 5 10735	218
99	PURDUE UNIV	P ULRICH	GSFC	C NOUSSAIR	NAG 5 10061	218
99	RENSSELAER POLYTECH INST	D MONTEGANI	GRC	J A TICHY	NGT 3 52341	385
99	RENSSELAER POLYTECH INST	G A ROBERSTON	MSFC	L N MYRABO	NAG 8 1290	385
99	RENSSELAER POLYTECH INST	L SMITH	GSFC	B SZMANSKI	NGT 5 50165	385
99	RENSSELAER POLYTECH INST	M MEYER	GSFC	J P FERRIS	NAG 5 9607	385
99	RICE UNIV	A TUYAHOV	GSFC	P REIFF	NCC 5 311	479
99	RICE UNIV	C L FARMER	JSC	D SUBRAMANIAN	NAG 9 1249	478
99	RICE UNIV	J SHARBER	GSFC	R WOLF	NAG 5 9077	477
99	RICE UNIV	P HUNTER	GSFC	E MERENYI	NAG 5 10432	478
99	ROANOKE COLLEGE	D SIX	MSFC	A F BARGHOUTY	NAG 8 1208	522
99	RUTGERS ST UNIV N	G ASRAR	GSFC	D ROBINSON	NGT 5 30062	359
99	RUTGERS ST UNIV N	K BLADING	GSFC	C MAVROIDIS	NGT 5 50364	359
99	RUTGERS ST UNIV N	P CRANE	GSFC	J SELLWOOD	NAG 5 10110	358
99	RUTGERS STATE UNIV OF NJ NEW BRUNS	P DECOLA	GSFC	Y WANG	NAG 5 11244	359
99	SAINT CLOUD STATE UNIV	J HILLMAN	GSFC	M WOMACK	NAG 5 11287	320
99	SALISH KOOTENAI COLLEGE	M STOUTSENBERGER	GSFC	J M GOBERT	NAG 5 9147	338
99	SAN ANTONIO COLLEGE	L ARMENDARIZ	JSC	C GONZALES	NAG 9 975	479
99	SAN DIEGO STATE UNIV	A PEEK	SSC	D STOWE	NCC13 00002	54
99	SAN DIEGO STATE UNIV	M WEI	GSFC	A HOPE	NGT 5 30367	55
99	SAN JACINTO COLLEGE	D DENTON-MISFELDT	JSC	N J ANTHA	NAS 9 00106	479
99	SAN JACINTO COLLEGE	D SICKOREZ	JSC	M DALTON	NCC 9 137	479
99	SAN JACINTO COLLEGE	N AVAILABLE	JSC	N AVAILABLE	NCC 9 141	479
99	SAN JOSE STATE UNIV	I STATLER	ARC	K CORKER	NAG 2 1454	55
99	SAN JOSE STATE UNIV	J BOYCE	GSFC	A BRIDGER	NAG 5 11185	56
99	SAN JOSE STATE UNIV	J BOYCE	GSFC	S C RAFKIN	NAG 5 9500	55
99	SAN JOSE STATE UNIV	M MOORE	ARC	B STONE	NGT 2 52262	58
99	SAN JOSE STATE UNIV	N S DORGI	ARC	M S PATANKAR	NCC 2 1284	57
99	SAN JOSE STATE UNIV	R K DISMUKES	ARC	K P JORDAN	NCC 2 1095	56
99	SAN JOSE STATE UNIV	RJ DISMUKES	ARC	K JORDON	NCC 2 1155	57
99	SHAW UNIV	M STOUTSENBERGER	GSFC	K SATAGOPAN	NAG 5 9195	402
99	SONOMA STATE UNIV	D GABRYS	GSFC	L COMINSKY	NCC 5 429	59
99	SOUTH CAROLINA STATE UNIV	J HARRINGTON	GSFC	D WALTER	NCC 5 534	465
99	SOUTH CAROLINA STATE UNIV	M MATTHEWS	GSFC	D K WALTER	NCC 5 454	465
99	SOUTH CAROLINA STATE UNIV	N R PELLIS	MSFC	J D SALLEY	NAG 5 8246	465
99	SOUTH DAKOTA SCH OF MINES & TECH	D DETROYE	GSFC	S FARWELL	NCC 5 402	466
99	SOUTH DAKOTA SCH OF MINES & TECH	D DETROYE	GSFC	S O FARWELL	NCC 5 588	466

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99	SOUTH DAKOTA SCH OF MINES & TECH	D DETROYE	GSFC	S O FARWELL	NGT 5 40095	467
99	SOUTHERN UNIV & A&M COLLEGE	A JOYCE	SSC	E HILDRETH	NGT13 52720	236
99	SOUTHERN UNIV & A&M COLLEGE	B WHITE	GSFC	D BAGAYOKO	NAG 5 8552	236
99	SOUTHERN UNIV & A&M COLLEGE	D FORD	MSFC	C WANG	NCC 8 138	236
99	SOUTHERN UNIV & A&M COLLEGE	G GORDON	MSFC	M A STUNNLEFIELD	NAG 8 1536	236
99	SOUTHERN UNIV & A&M COLLEGE	R TRAVIS	SSC	D BAGAYOKO	NCC13 00010	236
99	SOUTHERN UNIV & A&M COLLEGE	W J LOVE	MSFC	L L LAURENCE	NAG 8 1627	236
99	SOUTHWEST TEXAS JUNIOR COLLEGE	L ARMENDARIZ	JSC	A HERNANDEZ	NAG 9 1019	480
99	SPELMAN COLLEGE	C PERSON	GSFC	S T BOZEMAN	NAG 5 9313	190
99	SPELMAN COLLEGE	W J LOVE	MSFC	E Z FALCONER	NCC 8 179	190
99	STANFORD UNIV	A NURRIDDIN	GSFC	R WAGONER	NGT 5 50044	66
99	STANFORD UNIV	A NURRIDDIN	HQ	J HOW	NGT 5 50075	67
99	STANFORD UNIV	B BETTS	GSFC	L TYLER	NAG 5 9494	62
99	STANFORD UNIV	D BOGAN	GSFC	G TYLER	NAG 5 9556	62
99	STANFORD UNIV	J SHARBER	GSFC	U S INAN	NGT 5 50351	67
99	STANFORD UNIV	K BLANDING	HQ	A FOX	NGT 5 50358	67
99	STANFORD UNIV	L SMITH	GSFC	A B WALKER	NGT 5 50254	67
99	STANFORD UNIV	M WEI	GSFC	C FIELD	NGT 5 50101	67
99	STANFORD UNIV	M WEI	GSFC	K ARRIGO	NGT 5 30392	66
99	STANFORD UNIV	T J BARTH	ARC	T HUGHES	NCC 2 5363	65
99	STATE UNIV OF NY - BUFFALO	J BOYCE	GSFC	T GREGG	NAG 5 9619	388
99	STATE UNIV OF NY - BUFFALO	S DAVISON	GSFC	B GONG	NAG 5 9873	388
99	STATE UNIV OF NY - STONY BROOK	M Y WEI	GSFC	M LERDAU	NGT 5 30124	391
99	STATE UNIV OF NY - STONY BROOK	P DECOLA	GSFC	M GELLER	NAG 5 11240	391
99	STATE UNIV OF NY - STONY BROOK	R R ANTCLIFF	LARC	Y SHAMASH	NAG 1 01052	388
99	STATE UNIV OF NY COL - PURCHASE	D SENSKE	GSFC	G FLYNN	NAG 5 10221	392
99	STEVENS INST OF TECH	D D DETROYE	GSFC	S THANGAM	NGT 5 40096	360
99	STEVENS INST OF TECH	L KEFFER	GSFC	S THANGAM	NGT 5 40041	360
99	TENNESSEE STATE UNIV	B J COLLINS	ARC	W A SMITH	NAG 2 6052	468
99	TENNESSEE STATE UNIV	J HARRINGTON	GSFC	W A SMITH	NCC 5 531	469
99	TENNESSEE STATE UNIV	M BOROWSKI	GRC	D ROGERS	NAG 3 2606	468
99	TENNESSEE STATE UNIV	M CAWTHON	GRC	D B ROGERS	NAG 3 2441	468
99	TENNESSEE STATE UNIV	M MATHEWS	GSFC	M BUSBY	NAG 5 10896	468
99	TENNESSEE STATE UNIV	M MATHEWS	GSFC	M BUSBY	NCC 5 511	469
99	TENNESSEE STATE UNIV	P SAKIMOTO	GSFC	M BUSBY	NCC 5 228	468
99	TENNESSEE STATE UNIV	R F LAWRENCE	GRC	D B ROGERS	NAG 3 2272	468
99	TENNESSEE STATE UNIV	R LAWRENCE	GRC	D ROGERS	NAG 3 2577	468
99	TENNESSEE TECHNOLOGICAL UNIV	C K CARRINGTON	MSFC	S CANFIELD	NAG 8 1749	469
99	TENNESSEE TECHNOLOGICAL UNIV	J P DOWDY	MSFC	J C CHAI	NAG 8 1279	469
99	TEXAS A&M UNIV	A STRAHAN	JSC	D T WARD	NAG 9 1268	483
99	TEXAS A&M UNIV	C PERSON	GSFC	C STEIDLEY	NCC 5 517	484
99	TEXAS A&M UNIV	D BARTA	JSC	M C DREW	NAG 9 1067	482
99	TEXAS A&M UNIV	D SICKOREZ	JSC	W A HYMAN	NGT 9 39	484
99	TEXAS A&M UNIV	D SICKOREZ	JSC	W A HYMAN	NGT 9 54	484
99	TEXAS A&M UNIV	J E CALOGERAS	GRC	F R BEST	NCC 3 516	483
99	TEXAS A&M UNIV	J HOWELL	MSFC	K CHANG	NAG 8 1618	482
99	TEXAS A&M UNIV	K W LASSMAN	GRC	G SERA	NAS 9 00100	483
99	TEXAS A&M UNIV	M MEYER	GSFC	M C KENNICUT	NAG 5 9485	481
99	TEXAS A&M UNIV	M WEI	GSFC	D COLLINS	NAG 5 10549	481
99	TEXAS A&M UNIV	M WEI	GSFC	P CHANG	NGT 5 30417	484
99	TEXAS A&M UNIV	P MOUNTJPOY	HQ	S BEDNARZ	NCC 5 359	484
99	TEXAS A&M UNIV-CORPUS CHRISTI	N KHAZENIE	GSFC	G BLOUNT	NAG 5 9196	484
99	TEXAS COLLEGE	C PERSON	GSFC	M NAMBOODIRI	NAG 5 11002	485
99	TEXAS COLLEGE	C PERSON	GSFC	T NAMBOODIRI	NAG 5 8934	485
99	TEXAS TECH UNIV	J BREDEKAMP	GSFC	D COOKE	NAG 5 9505	485
99	THE AMERICAN UNIV	D DETROYE	GSFC	R BERENDZEN	NGT 5 40068	156
99	THE CATHOLIC UNIV OF AMERICA	J BOYCE	GSFC	D CRIDER	NAG 5 11225	160
99	THE CATHOLIC UNIV OF AMERICA	L PURVES	GSFC	D NGUYEN	NAG 5 8357	157
99	THE CATHOLIC UNIV OF AMERICA	P CRANE	GSFC	S KRAEMER	NAG 5 10500	159
99	THE CATHOLIC UNIV OF AMERICA	R CROUCH	GSFC	R D PARASURAMAN	NAG 5 8761	158
99	THE CATHOLIC UNIV OF AMERICA	W J WAGNER	GSFC	N GOPALSWAMY	NAG 5 10837	159
99	THE SCRIPPS REASERCH INST	M MEYER	HQ	G JOYCE	NAG 5 9386	67
99	THE UNIV OF CENTRAL FLORIDA	C BLACK	KSC	R HOSLER	NAG10 299	170
99	THE UNIV OF CENTRAL FLORIDA	D DETROYE	GSFC	S DURRANCE	NGT 5 40069	170
99	THE UNIV OF CENTRAL FLORIDA	D DETROYE	GSFC	S DURRANCE	NGT 5 40071	170

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99	THE UNIV OF CENTRAL FLORIDA	J P GORDON	KSC	D HOSIER	NAG10 280	170
99	TUFTS UNIV	P E HUNTER	GSFC	K R LANG	NAG 5 10350	301
99	TUFTS UNIV	R E GABRYS	GSFC	C ROGERS	NCC 5 434	301
99	TUFTS UNIV	W J WAGNER	GSFC	K R LANG	NAG 5 9725	300
99	TUSKEGEE UNIV	B ST. CYR	SSC	E SHEPPARD	NAG13 50	5
99	TUSKEGEE UNIV	B WHITE	HQ	N O EGIEBOR	NCC 5 346	5
99	TUSKEGEE UNIV	M MATHEWS	GSFC	R D PACE	NAG 5 10535	5
99	TUSKEGEE UNIV	R MCKINNEY	KSC	C DAVIS	NAG10 256	5
99	U OF MD CTR FOR ENVI SCI-CAMBRIDGE	E LINDSTROM	GSFC	L HARDING	NAG 5 11302	255
99	UNIV HOUSTON-HOUSTON	F J MONTEGANI	GRC	V BALAKOTAIAH	NGT 3 52356	488
99	UNIV HOUSTON-HOUSTON	H L DAVIS	JSC	A V VAILLAS	NCC 9 70	487
99	UNIV HOUSTON-HOUSTON	L ARMENDARIZ	JSC	T MINDIOLA	NAG 9 1055	487
99	UNIV HOUSTON-HOUSTON	L M ARMENDARIZ	JSC	T MINDIOLA	NAG 9 1363	487
99	UNIV OF MASSACHUSETTS	K BLANDING	GSFC	L BONASSAR	NGT 5 50374	301
99	UNIV OF MED AND DENTISTRY	L SMITH	HQ	N C PARTRIDGE	NGT 5 50335	360
99	UNIV OF MINN	A NURRIDIN	HQ	HALLEY	NGT 5 50091	325
99	UNIV OF MINN	A TUYAHOV	GSFC	T BURK	NCC 5 316	325
99	UNIV OF MINN	D DETROYE	GSFC	W L GARRARD	NGT 5 40040	325
99	UNIV OF MINN	D DETROYE	GSFC	W L GARRARD	NGT 5 40086	325
99	UNIV OF MINN	E LINDSTROM	GSFC	G NIEMI	NAG 5 11262	323
99	UNIV OF MINN	G ASRAR	GSFC	G POURFOULA	NGT 5 50104	325
99	UNIV OF MINN	G ASRAR	GSFC	M DAVIS	NGT 5 30115	325
99	UNIV OF MINN	G ASRAR	GSFC	M PERSON	NGT 5 30080	325
99	UNIV OF MINN	J SHARBER	GSFC	J WYGANT	NGT 5 50312	326
99	UNIV OF MINN	K BLANDING	GSFC	E SKILLMAN	NGT 5 50346	326
99	UNIV OF MINN	K BLANDING	GSFC	S HANAY	NGT 5 50344	326
99	UNIV OF MINN	K OGLIVIE	GSFC	P KELLOG	NAG 5 7202	322
99	UNIV OF MINN	L SMITH	GSFC	C CATTELL	NGT 5 50251	326
99	UNIV OF MINN	L SMITH	GSFC	J DICKEY	NGT 5 50250	326
99	UNIV OF MINN	L SMITH	GSFC	R LYSAK	NGT 5 50293	326
99	UNIV OF MINN	M WEI	GSFC	F PORTE-AGEL	NAG 5 10569	323
99	UNIV	L KEFFER	GSFC	J V TARANIK	NGT 5 40038	342
99	UNIV	M GERHARDT	JSC	B BUTLER	NCC 9 82	490
99	UNIV OF AKRON	FJ MONTEGANI	GRC	R K EBY	NGT 3 52327	422
99	UNIV OF ALABAMA - BIRMINGHAM	B BETTS	GSFC	T WDOWIAK	NAG 5 9424	6
99	UNIV OF ALABAMA - BIRMINGHAM	L P CHAMBERS	GSFC	L J DELUCAS	NAG 5 11146	6
99	UNIV OF ALABAMA - HUNTSVILLE	D D DETROYE	GSFC	J C GREGORY	NGT 5 40077	14
99	UNIV OF ALABAMA - HUNTSVILLE	D DETROYE	GSFC	J C GREGORY	NCC 5 580	13
99	UNIV OF ALABAMA - HUNTSVILLE	D DETROYE	GSFC	J GREGORY	NCC 5 391	13
99	UNIV OF ALABAMA - HUNTSVILLE	D E DETROYE	GSFC	J GREGORY	NGT 5 40018	14
99	UNIV OF ALABAMA - HUNTSVILLE	G HULLETT-SMITH	MSFC	S J GRAVES	NAS 8 00180	12
99	UNIV OF ALABAMA - HUNTSVILLE	J F DOWDY	MSFC	G R KARR	NGT 8 52874	14
99	UNIV OF ALABAMA - HUNTSVILLE	J F SPANN	GSFC	D F SMART	NAG 5 10943	11
99	UNIV OF ALABAMA - HUNTSVILLE	J R PRUITT	MSFC	G KARR	NAG 8 1786	12
99	UNIV OF ALABAMA - HUNTSVILLE	J RAKOCZY	MSFC	B PETERS	NAS 8 00118	12
99	UNIV OF ALABAMA - HUNTSVILLE	J SHARBER	GSFC	N SINGH	NAG 5 9397	10
99	UNIV OF ALABAMA - HUNTSVILLE	L KEFFER	GSFC	J C GREGORY	NCC 5 165	13
99	UNIV OF ALABAMA - HUNTSVILLE	M WATSON	MSFC	Y TAKAHASHI	NAS 8 98226	13
99	UNIV OF ALABAMA - HUNTSVILLE	N PELLIS	JSC	K CHITTUR	NAG 8 1355	11
99	UNIV OF ALABAMA - HUNTSVILLE	N QQURAISHI	JSC	J RUPERT	NCC 9 109	14
99	UNIV OF ALABAMA - HUNTSVILLE	P DECOLA	GSFC	M NEWCHURCH	NAG 5 11248	11
99	UNIV OF ALABAMA - HUNTSVILLE	P E HUNTER	GSFC	G A GERMANY	NAG 5 10743	10
99	UNIV OF ALABAMA - HUNTSVILLE	S COLEMAN	MSFC	L R GREENWOOD	NCC 8 200	13
99	UNIV OF ALABAMA - HUNTSVILLE	W WAGNER	GSFC	M A SHEA	NAG 5 10785	11
99	UNIV OF ALABAMA - UNIV	D V GALLAWAY	HQ	M FREEMAN	NAG 5 4346	15
99	UNIV OF ALABAMA - UNIV	J HARRINGTON	GSFC	M FREEMAN	NAG 5 9855	15
99	UNIV OF ALABAMA - UNIV	J R PRUITT	MSFC	L M FREEMAN	NAG 8 1724	16
99	UNIV OF ALABAMA - UNIV	M PHELPS	GSFC	L FREEMAN	NAG 5 9388	15
99	UNIV OF ALASKA - FAIRBANKS	D DETROYE	GSFC	J G HAWKINS	NGT 5 40014	19
99	UNIV OF ALASKA - FAIRBANKS	D DETROYE	GSFC	J G HAWKINS	NGT 5 40100	19
99	UNIV OF ALASKA - FAIRBANKS	J BOYCE	GSFC	K YOSHIKAWA	NAG 5 11213	18
99	UNIV OF ALASKA - FAIRBANKS	J SHARBER	GSFC	A OTTO	NAG 5 9457	18
99	UNIV OF ALASKA - FAIRBANKS	M MELLOTT	GSFC	M CONDE	NAG 5 10069	18
99	UNIV OF ALASKA - FAIRBANKS	M MEYER	GSFC	G PLUMLEY	NAG 5 9513	18
99	UNIV OF ALASKA - FAIRBANKS	M WEI	GSFC	J FREYMUELLER	NGT 5 30381	19

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99	UNIV OF ALBUQUERQUE	LM ARMENDARIZ	JSC	R A LAFARGE	NAG 9 1312	364
99	UNIV OF ARIZONA	A NURRIDIN	GSFC	M LLOYD-HART	NGT 5 50046	40
99	UNIV OF ARIZONA	B BETTS	GSFC	T SWINDLE	NAG 5 9198	32
99	UNIV OF ARIZONA	B BETTS	GSFC	W BOYNTON	NAG 5 9425	32
99	UNIV OF ARIZONA	C HILL	SSC	R DAVIS	NAG13 99005	38
99	UNIV OF ARIZONA	D BOGAN	GSFC	D HUNTEN	NAG 5 8970	31
99	UNIV OF ARIZONA	D BOGAN	GSFC	E P TURTLE	NAG 5 8937	31
99	UNIV OF ARIZONA	D BOGAN	GSFC	F HERBERT	NAG 5 8952	31
99	UNIV OF ARIZONA	D BOGAN	GSFC	R GREENBERG	NAG 5 8941	31
99	UNIV OF ARIZONA	D D DETROYE	GSFC	M J DRAKE	NGT 5 40082	40
99	UNIV OF ARIZONA	D DETROYE	GSFC	E H LEVY	NGT 5 40026	39
99	UNIV OF ARIZONA	D SENSKE	GSFC	P GEISSLER	NAG 5 10162	33
99	UNIV OF ARIZONA	G STRINGFELLOW	GSFC	L ZIURYS	NAG 5 10333	34
99	UNIV OF ARIZONA	G STRINGFELLOW	GSFC	P BERNATH	NAG 5 10205	33
99	UNIV OF ARIZONA	J BOYCE	GSFC	M J DRAKE	NAG 5 9435	32
99	UNIV OF ARIZONA	J BREDEKAMP	GSFC	E MERENYI	NAG 5 9405	32
99	UNIV OF ARIZONA	J BREDEKAMP	GSFC	J HOLBERG	NAG 5 9408	32
99	UNIV OF ARIZONA	K BLANDING	GSFC	C WALKER	NGT 5 50246	40
99	UNIV OF ARIZONA	L SMITH	GSFC	A BURROWS	NGT 5 50300	40
99	UNIV OF ARIZONA	L SMITH	GSFC	D DELUCA	NGT 5 50303	40
99	UNIV OF ARIZONA	L SMITH	GSFC	D MCCARTHY	NGT 5 50283	40
99	UNIV OF ARIZONA	L SMITH	GSFC	L ZIURYS	NGT 5 50282	40
99	UNIV OF ARIZONA	L SMITH	GSFC	R GREENBERG	NGT 5 50289	40
99	UNIV OF ARIZONA	L SMITH	GSFC	U FINK	NGT 5 50243	40
99	UNIV OF ARIZONA	M JASINSKI	GSFC	S SOROOSHIAN	NAG 5 11044	35
99	UNIV OF ARIZONA	M WEI	GSFC	R C BALES	NGT 5 30386	39
99	UNIV OF ARIZONA	P HUNTER	GSFC	J A LARSEN	NAG 5 8095	29
99	UNIV OF ARIZONA	T MORGAN	GSFC	S LARSEN	NAG 5 10853	35
99	UNIV OF ARIZONA	T MORGAN	GSFC	S LARSON	NAG 5 9465	32
99	UNIV OF ARIZONA	W ABDALATI	GSFC	R BALES	NAG 5 10264	33
99	UNIV OF ARIZONA	W ABDALATI	GSFC	V BAKER	NAG 5 10123	33
99	UNIV OF ARIZONA	W J WAGNER	GSFC	G M WEBB	NAG 5 10974	35
99	UNIV OF ARIZONA	W J WAGNER	GSFC	J KOTA	NAG 5 10884	35
99	UNIV OF ARIZONA	W J WAGNER	GSFC	J R JOKIPII	NAG 5 10990	35
99	UNIV OF ARKANSAS - LITTLE ROCK	D DETROYE	GSFC	K HUDSON	NCC 5 404	41
99	UNIV OF ARKANSAS - LITTLE ROCK	D DETROYE	GSFC	K HUDSON	NCC 5 597	41
99	UNIV OF ARKANSAS - LITTLE ROCK	D DETROYE	GSFC	M HUDSON	NGT 5 40119	41
99	UNIV OF ARKANSAS - LITTLE ROCK	L KEFFER	GSFC	G M NORTHROP	NGT 5 40063	41
99	UNIV OF ARK MAIN CAMP - FAYETTEVILLE	M J LEON	ARC	T KRAL	NCC 2 5360	41
99	UNIV OF CALIFORNIA - BERKELEY	A NURRIDIN	GSFC	E HALLER	NGT 5 50048	78
99	UNIV OF CALIFORNIA - BERKELEY	A NURRIDIN	HQ	P PRICE	NGT 5 50157	78
99	UNIV OF CALIFORNIA - BERKELEY	D WICKLAND	GSFC	I FUNG	NAG 5 11200	75
99	UNIV OF CALIFORNIA - BERKELEY	F S HERRERO	GSFC	D SIEGMUND	NAG 5 7615	71
99	UNIV OF CALIFORNIA - BERKELEY	G ASRAR	GSFC	M FIRESTONE	NGT 5 30071	78
99	UNIV OF CALIFORNIA - BERKELEY	J SHARBER	GSFC	L MUSCHIETTI	NAG 5 10300	74
99	UNIV OF CALIFORNIA - BERKELEY	J SPANN	GSFC	T PHAN	NAG 5 10471	74
99	UNIV OF CALIFORNIA - BERKELEY	K BLANDING	GSFC	J TAYLOR	NGT 5 50342	79
99	UNIV OF CALIFORNIA - BERKELEY	K BLANDING	GSFC	R LIN	NGT 5 50338	79
99	UNIV OF CALIFORNIA - BERKELEY	K BLANDING	GSFC	S FREEDMAN	NGT 5 50365	79
99	UNIV OF CALIFORNIA - BERKELEY	L SMITH	GSFC	J GRAHAM	NGT 5 50245	79
99	UNIV OF CALIFORNIA - BERKELEY	M MEYER	GSFC	R SAYKALLY	NAG 5 7457	71
99	UNIV OF CALIFORNIA - BERKELEY	M WEI	GSFC	D DE PAOLO	NGT 5 30380	78
99	UNIV OF CALIFORNIA - BERKELEY	M WEI	GSFC	J HARTE	NGT 5 30403	78
99	UNIV OF CALIFORNIA - BERKELEY	M WEI	GSFC	R AMUNDSON	NGT 5 30383	78
99	UNIV OF CALIFORNIA - BERKELEY	P CRANE	GSFC	D BUZASI	NAG 5 9318	73
99	UNIV OF CALIFORNIA - BERKELEY	P E HUNTER	GSFC	I HAWKINS	NAG 5 10314	74
99	UNIV OF CALIFORNIA - BERKELEY	R GRYMES	ARC	J F BANFIELD	NAG 2 1523	68
99	UNIV OF CALIFORNIA - BERKELEY	R PFAFF	GSFC	C W CARLSON	NAS 5 99242	76
99	UNIV OF CALIFORNIA - BERKELEY	W WAGNER	GSFC	J G LUHMANN	NAG 5 10925	75
99	UNIV OF CALIFORNIA - DAVIS	A NURRIDIN	HQ	C A FULLER	NGT 5 50204	83
99	UNIV OF CALIFORNIA - DAVIS	B W MEESON	GSFC	C O QUALSET	NAG 5 8586	81
99	UNIV OF CALIFORNIA - DAVIS	E LINDSTROM	GSFC	S USTIN	NAG 5 11260	81
99	UNIV OF CALIFORNIA - DAVIS	K BLANDING	GSFC	L H KELLOGG	NGT 5 50230	84
99	UNIV OF CALIFORNIA - DAVIS	L SMITH	GSFC	S CARLIP	NGT 5 50281	84
99	UNIV OF CALIFORNIA - DAVIS	M WEI	GSFC	S G USTIN-KENNEDY	NGT 5 30073	83

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99	UNIV OF CALIFORNIA - DAVIS	M WEI	GSFC	S USTIN	NGT 5 30373	83
99	UNIV OF CALIFORNIA - DAVIS	M WEI	GSFC	S USTIN	NGT 5 30411	83
99	UNIV OF CALIFORNIA - IRVINE	G ASRAR	GSFC	M PRATHER	NGT 5 30127	86
99	UNIV OF CALIFORNIA - IRVINE	G GUTMAN	GSFC	C ZENDER	NAG 5 10147	85
99	UNIV OF CALIFORNIA - IRVINE	L SMITH	GSFC	R E PURDY	NGT 5 50317	87
99	UNIV OF CALIFORNIA - IRVINE	M WEI	GSFC	S TYLER	NGT 5 30409	86
99	UNIV OF CALIFORNIA - IRVINE	P DECOLA	GSFC	M PRATHER	NAG 5 11272	85
99	UNIV OF CALIFORNIA - IRVINE	R WILKINSON	GRC	P TABOREK	NAG 3 2389	84
99	UNIV OF CALIFORNIA - LOS ANGELES	A NURRIDIN	HQ	V EDGERTON	NGT 5 50202	95
99	UNIV OF CALIFORNIA - LOS ANGELES	C W LLOYD	JSC	B	NAG 9 1252	94
99	UNIV OF CALIFORNIA - LOS ANGELES	D BOGAN	GSFC	C T RUSSELL	NAG 5 8938	91
99	UNIV OF CALIFORNIA - LOS ANGELES	D BOGAN	GSFC	R THORNE	NAG 5 9074	92
99	UNIV OF CALIFORNIA - LOS ANGELES	D J BOGAN	GSFC	G SCHUBERT	NAG 5 11210	94
99	UNIV OF CALIFORNIA - LOS ANGELES	G MADDERA	LARC	R P TURCO	NAG 1 1899	87
99	UNIV OF CALIFORNIA - LOS ANGELES	J SHARBER	GSFC	C WU	NAG 5 9111	92
99	UNIV OF CALIFORNIA - LOS ANGELES	J SHARBER	GSFC	P L PRITCHETT	NAG 5 10287	93
99	UNIV OF CALIFORNIA - LOS ANGELES	J SHARBER	GSFC	R WALKER	NAG 5 10282	93
99	UNIV OF CALIFORNIA - LOS ANGELES	K BLANDING	GSFC	C RUSSELLI	NGT 5 50359	95
99	UNIV OF CALIFORNIA - LOS ANGELES	L SMITH	GSFC	D K JACOBS	NGT 5 50310	95
99	UNIV OF CALIFORNIA - LOS ANGELES	M MAIDEN	GSFC	R MUNTZ	NCC 5 301	94
99	UNIV OF CALIFORNIA - LOS ANGELES	M WEI	GSFC	A ELDERING	NGT 5 30372	95
99	UNIV OF CALIFORNIA - LOS ANGELES	M WEI	GSFC	L SMITH	NAG 5 10609	93
99	UNIV OF CALIFORNIA - LOS ANGELES	S CURTIS	GSFC	M ABDALLA	NAG 5 6689	89
99	UNIV OF CALIFORNIA - LOS ANGELES	S MCGEE	HQ	P WANG	NGT 5 50220	95
99	UNIV OF CALIFORNIA - LOS ANGELES	W J WAGNER	GSFC	C T RUSSELL	NAG 5 10834	93
99	UNIV OF CALIFORNIA - SAN DIEGO	A NURRIDIN	HQ	F BERMAN	NGT 5 50131	105
99	UNIV OF CALIFORNIA - SAN DIEGO	D D DETROYE	GSFC	J ARNOLD	NGT 5 40085	105
99	UNIV OF CALIFORNIA - SAN DIEGO	J A YODER	GSFC	P NILLER	NAG 5 6375	98
99	UNIV OF CALIFORNIA - SAN DIEGO	J BREDEKAMP	GSFC	R P PUETTER	NAG 5 9506	101
99	UNIV OF CALIFORNIA - SAN DIEGO	J MARRA	GSFC	B MITCHELL	NAG 5 10276	101
99	UNIV OF CALIFORNIA - SAN DIEGO	J SHARBER	GSFC	K QUEST	NAG 5 10993	102
99	UNIV OF CALIFORNIA - SAN DIEGO	K PARTINGTON	GSFC	D SANDWELL	NAG 5 10065	101
99	UNIV OF CALIFORNIA - SAN DIEGO	L KEFFER	GSFC	J A ARNOLD	NGT 5 40007	104
99	UNIV OF CALIFORNIA - SAN DIEGO	L SMITH	GSFC	G FULLER	NGT 5 50234	105
99	UNIV OF CALIFORNIA - SAN DIEGO	M MEYER	GSFC	E FURTEK	NAG 5 10669	101
99	UNIV OF CALIFORNIA - SAN DIEGO	M WEI	GSFC	D SANDWELL	NGT 5 30368	104
99	UNIV OF CALIFORNIA - SAN DIEGO	P HUNTER	GSFC	B V JACKSON	NAG 5 9423	100
99	UNIV OF CALIFORNIA - SAN DIEGO	P L MOUNTJOY	GSFC	S RIDE	NCC 5 540	104
99	UNIV OF CALIFORNIA - SAN DIEGO	P MOUNTJOY	HQ	D K RIDE	NCC 5 257	104
99	UNIV OF CALIFORNIA - SAN DIEGO	P MOUNTJOY	GSFC	S RIDE	NCC 5 585	104
99	UNIV OF CALIFORNIA - SAN DIEGO	R CROUCH	GSFC	T JUNG	NAG 5 8768	100
99	UNIV OF CALIFORNIA - SAN DIEGO	T MORGAN	GSFC	N OMIDI	NAG 5 9314	100
99	UNIV OF CALIFORNIA - SANTA BARBARA	D SPEARS	GSFC	G HOMSY	NAG 5 11249	109
99	UNIV OF CALIFORNIA - SANTA BARBARA	G ASRAR	GSFC	R SMITH	NGT 5 30063	110
99	UNIV OF CALIFORNIA - SANTA BARBARA	J MARRA	GSFC	N NELSON	NAG 5 10146	108
99	UNIV OF CALIFORNIA - SANTA BARBARA	L SMITH	GSFC	J RUHL	NGT 5 50269	111
99	UNIV OF CALIFORNIA - SANTA BARBARA	M MAIDEN	GSFC	J FREW	NCC 5 302	110
99	UNIV OF CALIFORNIA - SANTA BARBARA	M WEI	GSFC	D ROBERTS	NGT 5 30400	111
99	UNIV OF CALIFORNIA - SANTA BARBARA	M WEI	GSFC	D SIEGEL	NGT 5 30406	111
99	UNIV OF CALIFORNIA - SANTA BARBARA	M WEI	GSFC	N MAHOWALD	NGT 5 30413	111
99	UNIV OF CALIFORNIA - SANTA CRUZ	D J BOGAN	GSFC	G A GLATZMAIER	NAG 5 11220	113
99	UNIV OF CALIFORNIA - SANTA CRUZ	G ASRAR	GSFC	D SILVER	NGT 5 30074	114
99	UNIV OF CALIFORNIA - SANTA CRUZ	G ASRAR	GSFC	G VALLIS	NGT 5 90077	114
99	UNIV OF CALIFORNIA - SANTA CRUZ	M WEI	GSFC	D POTTS	NGT 5 30415	114
99	UNIV OF CALIFORNIA - SANTA CRUZ	S . PARKHUST	ARC	D L STANSBURY	NCC 2 1037	113
99	UNIV OF CHICAGO	J BOYCE	GSFC	A M DAVIS	NAG 5 9510	206
99	UNIV OF CHICAGO	J BOYCE	GSFC	M HUMAYUN	NAG 5 9800	206
99	UNIV OF CHICAGO	W J WAGNER	GSFC	F CATTANEO	NAG 5 10831	207
99	UNIV OF CINCINNATI	A NURRIDIN	GSFC	P L RICHARDSON	NGT 5 50040	423
99	UNIV OF CINCINNATI	G ASRAR	GSFC	S ISLAM	NGT 5 30108	423
99	UNIV OF CINCINNATI	L SMITH	GSFC	J W PIKE	NGT 5 50265	423
99	UNIV OF COLORADO - BOULDER	B BETTS	GSFC	A L BETZ	NAG 5 9474	133
99	UNIV OF COLORADO - BOULDER	C P HOLMES	GSFC	C A BARTH	NAG 5 10106	134
99	UNIV OF COLORADO - BOULDER	D BOGAN	GSFC	K SIMMONS	NAG 5 8940	132
99	UNIV OF COLORADO - BOULDER	D D DETROYE	GSFC	E R HANSEN	NGT 5 40028	142
99	UNIV OF COLORADO - BOULDER	D D DETROYE	GSFC	E R HANSEN	NGT 5 40072	142

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99	UNIV OF COLORADO - BOULDER	D SENSKE	GSFC	M MELLON	NAG 5 10265	135
99	UNIV OF COLORADO - BOULDER	E T SCHWARTZ	HQ	E R HANSEN	NGT 40008	140
99	UNIV OF COLORADO - BOULDER	F VILAS	JSC	A R HENDRIX	NAG 9 1209	138
99	UNIV OF COLORADO - BOULDER	G ASRAR	GSFC	J CURRY	NGT 5 30128	141
99	UNIV OF COLORADO - BOULDER	G ASRAR	HQ	J CURRY	NGT 5 30072	141
99	UNIV OF COLORADO - BOULDER	J BOYCE	GSFC	S ZHONG	NAG 5 11224	137
99	UNIV OF COLORADO - BOULDER	J F SPANN	GSFC	T FULLER-ROWELL	NAG 5 10937	136
99	UNIV OF COLORADO - BOULDER	J M BOYCE	GSFC	J FORBES	NAG 5 11167	137
99	UNIV OF COLORADO - BOULDER	J SHARBER	GSFC	R ERGUN	NAG 5 9336	133
99	UNIV OF COLORADO - BOULDER	K BLANDING	GSFC	E ZWEIBEL	NGT 5 50350	143
99	UNIV OF COLORADO - BOULDER	K BLANDING	GSFC	J FORBES	NGT 5 50352	143
99	UNIV OF COLORADO - BOULDER	K BLANDING	GSFC	J GREEN	NGT 5 50340	143
99	UNIV OF COLORADO - BOULDER	K BLANDING	GSFC	M HORANYI	NGT 5 50345	143
99	UNIV OF COLORADO - BOULDER	K BLANDING	GSFC	R RAPPALARDO	NGT 5 50337	143
99	UNIV OF COLORADO - BOULDER	K E BLANDING	GSFC	J GREEN	NGT 5 50341	143
99	UNIV OF COLORADO - BOULDER	L SMITH	GSFC	A BROWN	NGT 5 50241	142
99	UNIV OF COLORADO - BOULDER	L SMITH	GSFC	C A WESSMAN	NGT 5 30180	141
99	UNIV OF COLORADO - BOULDER	L SMITH	GSFC	C WESSMAN	NGT 5 50271	142
99	UNIV OF COLORADO - BOULDER	L SMITH	GSFC	J E COLDWELL	NGT 5 50294	142
99	UNIV OF COLORADO - BOULDER	L SMITH	GSFC	J FORBES	NGT 5 50232	142
99	UNIV OF COLORADO - BOULDER	L SMITH	GSFC	J LINSKY	NGT 5 50242	142
99	UNIV OF COLORADO - BOULDER	L SMITH	GSFC	L ESPOSITO	NGT 5 50273	142
99	UNIV OF COLORADO - BOULDER	L SMITH	GSFC	R CANUP	NGT 5 50237	142
99	UNIV OF COLORADO - BOULDER	M MELLOTT	GSFC	M CODRESCU	NAG 5 10309	135
99	UNIV OF COLORADO - BOULDER	M MELLOTT	GSFC	R ERGUN	NAG 5 9353	133
99	UNIV OF COLORADO - BOULDER	M MELLOTT	GSFC	S ROBERTSON	NAG 5 9443	133
99	UNIV OF COLORADO - BOULDER	M S BURRELL	GSFC	D AXELRAD	NGT 5 123	140
99	UNIV OF COLORADO - BOULDER	M WEI	GSFC	A R RAVISHANKARA	NGT 5 30076	141
99	UNIV OF COLORADO - BOULDER	M WEI	GSFC	G ASNER	NGT 5 30345	141
99	UNIV OF COLORADO - BOULDER	M WEI	GSFC	J RUNDLE	NGT 5 50102	142
99	UNIV OF COLORADO - BOULDER	M WEI	GSFC	K STEFFEN	NGT 5 30376	141
99	UNIV OF COLORADO - BOULDER	M WEI	GSFC	M A TOLBERT	NGT 5 30422	142
99	UNIV OF COLORADO - BOULDER	M WEI	GSFC	M TOLBERT	NGT 5 50106	142
99	UNIV OF COLORADO - BOULDER	M WEI	GSFC	R BARRY	NGT 5 30399	141
99	UNIV OF COLORADO - BOULDER	M WEI	GSFC	S NEREM	NGT 5 30394	141
99	UNIV OF COLORADO - BOULDER	M WEI	GSFC	T PFEFFER	NGT 5 30416	141
99	UNIV OF COLORADO - BOULDER	P CRANE	GSFC	A L BETZ	NAG 5 10213	134
99	UNIV OF COLORADO - BOULDER	P DECOLA	GSFC	O B TOON	NAG 5 11243	138
99	UNIV OF COLORADO - BOULDER	W ABDALATI	GSFC	J WAHR	NAG 5 10211	134
99	UNIV OF COLORADO - BOULDER	W ABDALATI	GSFC	T ARBETTER	NAG 5 10556	136
99	UNIV OF COLORADO - BOULDER	W ABDALATI	GSFC	T SCAMBOS	NAG 5 10983	137
99	UNIV OF COLORADO - BOULDER	W ABDALATI	GSFC	T SCAMBOS	NAG 5 11308	138
99	UNIV OF COLORADO - DENVER	M MELLOTT	GSFC	J M FORBES	NAG 5 10521	143
99	UNIV OF CONNECTICUT	C HILL	SSC	D CIVCO	NAG13 99001	145
99	UNIV OF CONNECTICUT	E SHEFFNER	GSFC	D CIVCO	NAG 5 11307	145
99	UNIV OF CONNECTICUT	M PHELPS	GSFC	D MOSS	NAG 5 10599	145
99	UNIV OF CONNECTICUT	M WEI	GSFC	E ANAGNOSTOU	NGT 5 30369	146
99	UNIV OF DELAWARE - BARTOL RES. INST	D DETROYE	GSFC	N F NESS	NGT 5 40024	151
99	UNIV OF DELAWARE - BARTOL RES. INST	D DETROYE	GSFC	N F NESS	NGT 5 40122	151
99	UNIV OF DELAWARE - BARTOL RES. INST	L SMITH	GSFC	A M LENHOFF	NGT 5 50167	151
99	UNIV OF DELAWARE	K BLANDING	GSFC	P DHUJATI	NGT 5 50367	150
99	UNIV OF DISTRICT OF COLUMBIA	C HOLLINSWORTH	GSFC	W COLEMAN	NAG 5 10855	161
99	UNIV OF DISTRICT OF COLUMBIA	L RANDOLPH	GSFC	W R COLEMAN	NAG 5 4724	161
99	UNIV OF FLORIDA	A NURRIDIN	HQ	T ANDERSON	NGT 5 50074	175
99	UNIV OF FLORIDA	B CAMPBELL	GSFC	D GUSTAFSON	NAG 5 4547	172
99	UNIV OF FLORIDA	B W MESSON	GSFC	J F DAY	NAG 5 7664	173
99	UNIV OF FLORIDA	D BOGAN	GSFC	L KOLOKOLOVA	NAG 5 8944	173
99	UNIV OF FLORIDA	D DETROYE	GSFC	W SHYY	NGT 5 40025	175
99	UNIV OF FLORIDA	L SMITH	GSFC	E A LADA	NGT 5 50233	176
99	UNIV OF FLORIDA	M MEYER	GSFC	L B GOWER	NAG 5 10670	173
99	UNIV OF FLORIDA	R KOCZOR	MSFC	D TREISE	NCC 8 149	175
99	UNIV OF GEORGIA	D BOGAN	GSFC	N G ADAMS	NAG 5 8951	190
99	UNIV OF HARTFORD	D D DETROYE	GSFC	S TOWNSEND	NGT 5 40093	146
99	UNIV OF HARTFORD	D DETROYE	GSFC	S L TOWNSEND	NGT 5 40031	146
99	UNIV OF HARTFORD	D DETROYE	GSFC	S TOWNSEND	NCC 5 390	146
99	UNIV OF HAWAII AT MANOA - HONOLULU	A KEYS	MSFC	B J LABONTE	NAG 8 1798	198

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99	UNIV OF HAWAII AT MANOA - HONOLULU	D BOGAN	GSFC	G HANSEN	NAG 5 8983	195
99	UNIV OF HAWAII AT MANOA - HONOLULU	D D DETROYE	GSFC	G TAYLOR	NGT 5 40076	199
99	UNIV OF HAWAII AT MANOA - HONOLULU	D DETROYE	GSFC	D TAYLOR	NGT 5 40021	199
99	UNIV OF HAWAII AT MANOA - HONOLULU	D SENSKE	GSFC	F P FANALE	NAG 5 10229	197
99	UNIV OF HAWAII AT MANOA - HONOLULU	E D PAYLOR, II	GSFC	P MOUGINIS-MARK	NAG 5 10640	197
99	UNIV OF HAWAII AT MANOA - HONOLULU	J BOYCE	GSFC	G TAYLOR	NAG 5 3782	192
99	UNIV OF HAWAII AT MANOA - HONOLULU	J BOYCE	GSFC	K KEIL	NAG 5 11362	198
99	UNIV OF HAWAII AT MANOA - HONOLULU	J GRANT	GSFC	F P FANALE	NAG 5 8870	195
99	UNIV OF HAWAII AT MANOA - HONOLULU	J M BOYCE	GSFC	S ROWLAND	NAG 5 10909	197
99	UNIV OF HAWAII AT MANOA - HONOLULU	K E BLANDING	GSFC	D JEWITT	NGT 5 50357	199
99	UNIV OF HAWAII AT MANOA - HONOLULU	K PARTINGTON	GSFC	F AMELUNG	NAG 5 10111	196
99	UNIV OF HAWAII AT MANOA - HONOLULU	L SMITH	GSFC	C FLETCHER	NGT 5 30179	198
99	UNIV OF HAWAII AT MANOA - HONOLULU	M BALTUCK	GSFC	P J MOUGINIS-MARK	NAG 5 4395	192
99	UNIV OF HAWAII AT MANOA - HONOLULU	M MEYER	GSFC	K KEIL	NAG 5 9511	196
99	UNIV OF HAWAII AT MANOA - HONOLULU	P E HUNTER	GSFC	I SZAPUDI	NAG 5 10750	197
99	UNIV OF HAWAII AT MANOA - HONOLULU	T MORGAN	GSFC	R KUDRITZKI	NCC 5 538	198
99	UNIV OF HOUSTON - CLEAR LAKE	N G ROBERTSON	JSC	J N MACIR	NGT 9 48	490
99	UNIV OF HOUSTON - DOWNTOWN	L ARMENDARIZ	JSC	R ALO	NAG 9 1018	491
99	UNIV OF HOUSTON - DOWNTOWN	P SAKIMOTO	GSFC	P A MORRIS-SMITH	NAG 5 10149	491
99	UNIV OF IDAHO - MOSCOW	D D DETROYE	GSFC	J TEASDALE	NGT 5 40108	200
99	UNIV OF IDAHO - MOSCOW	D DETROYE	GSFC	J TEASDALE	NCC 5 577	200
99	UNIV OF IDAHO - MOSCOW	D DETROYE	HQ	R GILL	NCC 5 395	200
99	UNIV OF IDAHO - MOSCOW	D E DETROYE	GSFC	J TEASDALE	NGT 5 40056	200
99	UNIV OF IDAHO - MOSCOW	M PHELPS	GSFC	J A TEASDALE	NAG 5 10210	199
99	UNIV OF ILLINOIS - CHICAGO CIRCLE	A NURRIDIN	HQ	M CHOI	NGT 5 50155	208
99	UNIV OF ILLINOIS - CHICAGO CIRCLE	M MEYER	GSFC	P DORAN	NAG 5 9427	208
99	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	B F CHAO	GSFC	X SONG	NAG 5 8871	211
99	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	D D DETROYE	GSFC	W C SOLOMON	NGT 5 40073	214
99	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	D DETROYE	GSFC	W C SOLOMON	NGT 5 40030	214
99	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	K BLANDING	GSFC	R GAMMIE	NGT 5 50343	214
99	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	L SMITH	GSFC	A SCHEELINE	NGT 5 50238	214
99	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	M MELLOTT	GSFC	G R SWENSON	NAG 5 10072	212
99	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	S DAVIDSON	GSFC	C LIU	NAG 5 8781	211
99	UNIV OF ILLINOIS AT URBANA-CHAMPAIGN	S MCGEE	HQ	R K IYER	NGT 5 50228	214
99	UNIV OF IOWA	A JACKMAN	MSFC	C BECKERMANN	NCC 8 94	227
99	UNIV OF IOWA	D BOGAN	GSFC	J MENIETTI	NAG 5 8918	226
99	UNIV OF IOWA	J SHARBER	GSFC	A BHATTACHARJEE	NAG 5 10329	226
99	UNIV OF IOWA	K BLANDING	HQ	T PEEPLES	NGT 5 50377	227
99	UNIV OF KANSAS	A NURRIDIN	HQ	J HARRINGTON	NGT 5 50161	230
99	UNIV OF KANSAS	A NURRIDIN	HQ	R G PLUMB	NGT 5 50073	230
99	UNIV OF KANSAS	C HILL	SSC	E A MARTINKO	NAG13 99009	229
99	UNIV OF KANSAS	D DETROYE	GSFC	D DOWNING	NCC 5 415	229
99	UNIV OF KANSAS	D DETROYE	GSFC	D R DOWNING	NCC 5 168	229
99	UNIV OF KANSAS	D DETROYE	GSFC	D R DOWNING	NGT 5 40065	229
99	UNIV OF KANSAS	D DETROYE	GSFC	D R DOWNING	NGT 5 40121	230
99	UNIV OF KANSAS	M WEI	GSFC	S EGBERT	NGT 5 30404	229
99	UNIV OF KENTUCKY	C LEVIT	ARC	S B SINNOTT	NAG 2 1121	231
99	UNIV OF MAINE - ORONO	E LINDSTROM	GSFC	D A BYRNE	NAG 5 11132	239
99	UNIV OF MAINE - ORONO	M WEI	GSFC	G HAMILTON	NGT 5 30426	239
99	UNIV OF MAINE - ORONO	R MILLER	SSC	W SLADE	NGT13 52751	239
99	UNIV OF MARYLAND - COLLEGE PARK	C E COCKRELL	LARC	M LEWIS	NGT 1 52158	271
99	UNIV OF MARYLAND - COLLEGE PARK	C HILL	SSC	S D PRINCE	NAG13 99011	268
99	UNIV OF MARYLAND - COLLEGE PARK	D CAVALIERI	GSFC	K Y VINNIKOV	NAG 5 10746	266
99	UNIV OF MARYLAND - COLLEGE PARK	D WICKLAND	GSFC	R DUBAYAH	NAG 5 11252	267
99	UNIV OF MARYLAND - COLLEGE PARK	D WICKLAND	GSFC	S GOETZ	NAG 5 10126	265
99	UNIV OF MARYLAND - COLLEGE PARK	E J MASUOKA	GSFC	D ROY	NCC 5 449	270
99	UNIV OF MARYLAND - COLLEGE PARK	G A SOFFEN	GSFC	M GAVRILAS	NGT 5 62	271
99	UNIV OF MARYLAND - COLLEGE PARK	G GUTMAN	GSFC	D ROY	NAG 5 11251	267
99	UNIV OF MARYLAND - COLLEGE PARK	G GUTMAN	GSFC	J TOWNSHEND	NAG 5 11306	268
99	UNIV OF MARYLAND - COLLEGE PARK	J M BOYCE	GSFC	R WALKER	NAG 5 10425	265
99	UNIV OF MARYLAND - COLLEGE PARK	J SHARBER	GSFC	S SHARMA	NAG 5 10298	265
99	UNIV OF MARYLAND - COLLEGE PARK	K OBIUVIE	GSFC	G GLOECKLER	NAG 5 7111	259
99	UNIV OF MARYLAND - COLLEGE PARK	K PARTINGTON	GSFC	E KASISCHKE	NAG 5 10097	265
99	UNIV OF MARYLAND - COLLEGE PARK	M GUHATHAKURTA	GSFC	A S SHARMA	NAG 5 10585	266
99	UNIV OF MARYLAND - COLLEGE PARK	M MAIDEN	GSFC	J TOWNSENDE	NCC 5 300	270

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99	UNIV OF MARYLAND - COLLEGE PARK	M WEI	GSFC	E KASISCHKE	NGT 5 30377	271
99	UNIV OF MARYLAND - COLLEGE PARK	P DE COLA	GSFC	D CONSIDINE	NAG 5 11151	267
99	UNIV OF MARYLAND - COLLEGE PARK	P DECOLA	GSFC	D ALLEN	NAG 5 11246	267
99	UNIV OF MARYLAND - COLLEGE PARK	P DECOLA	GSFC	K PICKERING	NAG 5 11276	267
99	UNIV OF MARYLAND - COLLEGE PARK	P DECOLA	GSFC	R HUDSON	NAG 5 11247	267
99	UNIV OF MARYLAND - COLLEGE PARK	W ABDALATI	GSFC	M FAHNESTOCK	NAG 5 10179	265
99	UNIV OF MARYLAND - COLLEGE PARK	W J WAGNER	GSFC	C S GOODRICH	NAG 5 10882	266
99	UNIV OF MARYLAND - COLLEGE PARK	W WAGNER	GSFC	S WHITE	NAG 5 10175	265
99	UNIV OF MARYLAND - EASTERN SHORE	D MENCHAN	GSFC	T DUBE	NAG 5 10122	272
99	UNIV OF MARYLAND - EASTERN SHORE	M STOUTSENBERGER	GSFC	G SINGH	NAG 5 9243	272
99	UNIV OF MARYLAND BALTIMORE COUNTY	D MENCHAN	GSFC	E B BAKER	NAG 5 9954	273
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99	UNIV OF MARYLAND BALTIMORE COUNTY	P DECOLA	GSFC	L SPARLING	NAG 5 11284	275
99	UNIV OF MARYLAND BALTIMORE COUNTY	P DECOLA	GSFC	S STRAHAN	NAG 5 11230	275
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99	UNIV OF MASSACHUSETTS - AMHERST	M WEI	GSFC	S SEKELSKY	NGT 5 30412	304
99	UNIV OF MASSACHUSETTS-DARTHMOUTH	J MARRA	GSFC	J J BISAGNI	NAG 5 10125	304
99	UNIV OF MIAMI	M WEI	GSFC	S S CHEN	NGT 5 30425	178
99	UNIV OF MIAMI	M Y WEI	GSFC	O B BROWN	NGT 5 30222	178
99	UNIV OF MIAMI	P DECOLA	GSFC	J RODRIGUEZ	NAG 5 10725	177
99	UNIV OF MIAMI	P DECOLA	GSFC	J RODRIQUEZ	NAG 5 11277	177
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99	UNIV OF MICHIGAN - ANN ARBOR	J BOYCE	GSFC	M C LIEMOHN	NAG 5 11187	316
99	UNIV OF MICHIGAN - ANN ARBOR	J BREDEKAMP	GSFC	M COMBI	NAG 5 9464	314
99	UNIV OF MICHIGAN - ANN ARBOR	J BREDEKAMP	GSFC	T GOMBOSI	NAG 5 9406	314
99	UNIV OF MICHIGAN - ANN ARBOR	J SHARBER	GSFC	K KOZYRA	NAG 5 10297	315
99	UNIV OF MICHIGAN - ANN ARBOR	K BLANDING	GSFC	L FISK	NGT 5 50349	319
99	UNIV OF MICHIGAN - ANN ARBOR	L KEFFER	GSFC	R M JOHNSON	NGT 5 40062	319
99	UNIV OF MICHIGAN - ANN ARBOR	L SMITH	GSFC	L FISK	NGT 5 50255	319
99	UNIV OF MICHIGAN - ANN ARBOR	P DECOLA	GSFC	J PENNER	NAG 5 11275	316
99	UNIV OF MICHIGAN - ANN ARBOR	R HOFFMAN	GSFC	A NAGEY	NAG 5 7557	313
99	UNIV OF MICHIGAN - ANN ARBOR	W J WAGNER	GSFC	L A FINK	NAG 5 10975	316
99	UNIV OF MISSISSIPPI - UNIV	D D DETROYE	GSFC	P SUKANEK	NGT 5 40098	329
99	UNIV OF MISSISSIPPI - UNIV	D DETROYE	GSFC	P R SUKANEK	NGT 5 40032	329
99	UNIV OF MISSISSIPPI - UNIV	D DETROYE	GSFC	P SUKANEK	NCC 5 405	328
99	UNIV OF MISSISSIPPI - UNIV	D DETROYE	GSFC	P SUKANEK	NCC 5 574	329
99	UNIV OF MISSISSIPPI - UNIV	M MICK	SSC	J GABRYNOWICZ	SSC13 00036	328
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99	UNIV OF MISSOURI - ROLLA	D D DETROYE	GSFC	F FINIASH	NGT 5 40112	332
99	UNIV OF MISSOURI - ROLLA	L KEFFER	GSFC	B P SELBERG	NGT 5 40060	332
99	UNIV OF MONTANA	D WICKLAND	GSFC	S RUNNING	NAG 5 11256	339
99	UNIV OF MONTANA	M WEI	GSFC	S RUNNING	NGT 5 30395	339
99	UNIV OF MONTANA	M Y WEI	GSFC	R J FIELD	NGT 5 50225	339
99	UNIV OF NEBRASKA - LINCOLN	A PEEK	SSC	RUNDQUIST	NCC13 98003	341
99	UNIV OF NEBRASKA - LINCOLN	D D DETROYE	GSFC	B D BOWEN	NCC 5 169	341
99	UNIV OF NEBRASKA - LINCOLN	D L KALE	GSFC	D RUNDQUIST	NAG 5 4217	340
99	UNIV OF NEBRASKA - LINCOLN	G GUTMAN	GSFC	A GITELSON	NAG 5 11147	340
99	UNIV OF NEBRASKA - LINCOLN	M Y WEI	GSFC	M BLUM	NGT 5 30358	341
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99	UNIV OF NEBRASKA-OMAHA	D D DETROYE	GSFC	B D BOWEN	NGT 5 40104	341
99	UNIV OF NEBRASKA-OMAHA	D DETROYE	GSFC	B D BOWEN	NCC 5 572	341
99	UNIV OF NEBRASKA-OMAHA	D DETROYE	HQ	B BROWN	NCC 5 401	341
99	UNIV OF NEBRASKA-OMAHA	L KEFFER	GSFC	B D BOWEN	NGT 5 40037	341
99	UNIV OF NEVADA - LAS VEGAS	J BREDEKAMP	GSFC	S LATIFI	NAG 5 9489	342
99	UNIV OF NEVADA - RENO	D DETROYE	GSFC	J V TARANIK	NGT 5 40113	343
99	UNIV OF NEVADA - RENO	K BLANDING	GSFC	W CALVIN	NGT 5 50362	343
99	UNIV OF NEVADA SYSTEM	D DETROYE	GSFC	J TARANKI	NCC 5 397	343
99	UNIV OF NEVADA SYSTEM	D DETROYE	HQ	J V TARANIK	NCC 5 583	343
99	UNIV OF NEW HAMPSHIRE - DURHAM	D DETROYE	GSFC	D BARTLETT	NGT 5 40088	350
99	UNIV OF NEW HAMPSHIRE - DURHAM	D DETROYE	GSFC	D S BARTLETT	NGT 5 40010	350

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99	UNIV OF NEW HAMPSHIRE - DURHAM	J MARRA	GSFC	C VOROSMARTY	NAG 5 10260	348
99	UNIV OF NEW HAMPSHIRE - DURHAM	J MARRA	GSFC	J W CAMPBELL	NAG 5 11258	349
99	UNIV OF NEW HAMPSHIRE - DURHAM	M WEITH	GSFC	J E DIBB	NGT 5 30349	350
99	UNIV OF NEW HAMPSHIRE - DURHAM	W J WAGNER	GSFC	B J VASQUEZ	NAG 5 10988	349
99	UNIV OF NEW HAMPSHIRE - DURHAM	W J WAGNER	GSFC	P A ISENBERG	NAG 5 10835	348
99	UNIV OF NEW HAMPSHIRE - DURHAM	W J WAGNER	GSFC	T G FORBES	NAG 5 10977	348
99	UNIV OF NEW HAMPSHIRE - DURHAM	W WAGNER	GSFC	C FARRUGIA	NAG 5 10883	348
99	UNIV OF NEW HAMPSHIRE - DURHAM	W WAGNER	GSFC	M L MCCONNEL	NAG 5 10203	348
99	UNIV OF NEW MEXICO-ALBUQUERQUE	A TUYAHOV	GSFC	S MORAIN	NCC 5 309	366
99	UNIV OF NEW MEXICO-ALBUQUERQUE	B J COLLINS	ARC	P DORATO	NAG 2 1480	364
99	UNIV OF NEW MEXICO-ALBUQUERQUE	L ARMENDARIZ	JSC	H E NEWSOM	NAG 9 1017	366
99	UNIV OF NEW MEXICO-ALBUQUERQUE	M MATHEWS	GSFC	M JAMSHIDI	NCC 5 350	366
99	UNIV OF NEW MEXICO-ALBUQUERQUE	M WEI	GSFC	B MILNE	NGT 5 30227	366
99	UNIV OF NEW MEXICO-ALBUQUERQUE	R CROUCH	GSFC	J BRINKER	NAG 5 8821	365
99	UNIV OF NEW MEXICO-ALBUQUERQUE	W H MILLER	GSFC	G MAKI	NAG 5 7006	364
99	UNIV OF NEW ORLEANS	F SIX	MSFC	J J HEGSETH	NAG 8 1116	237
99	UNIV OF NEW ORLEANS	R MILLER	SSC	J CORBINO	NGT13 52749	238
99	UNIV OF NORTH CAROLINA - CHAPEL HILL	L SMITH	GSFC	R W MURRAY	NGT 5 50311	403
99	UNIV OF NORTH CAROLINA - CHAPEL HILL	L SMITH	GSFC	T M WHITMORE	NGT 5 30177	403
99	UNIV OF NORTH CAROLINA - CHAPEL HILL	M WEI	GSFC	J BANE	NGT 5 30389	403
99	UNIV OF NORTH CAROLINA - CHAPEL HILL	M WEI	GSFC	L BAND	NGT 5 30390	403
99	UNIV OF NORTH CAROLINA	J F DOWDY	MSFC	R D FORSYTHE	NAG 8 1314	403
99	UNIV OF NORTH DAKOTA	A TUYAHOV	GSFC	G SEIELSTAD	NCC 5 310	405
99	UNIV OF NORTH DAKOTA	C HILL	SSC	P R ZIMMERMAN	NAG13 99006	405
99	UNIV OF NORTH DAKOTA	D D DETROYE	GSFC	R ANDRES	NGT 5 40117	405
99	UNIV OF NORTH DAKOTA	D DETROYE	GSFC	C WOOD	NCC 5 399	405
99	UNIV OF NORTH DAKOTA	D DETROYE	GSFC	R ANDRES	NCC 5 582	405
99	UNIV OF NORTH DAKOTA	L KEFFER	GSFC	C A WOOD	NGT 5 40034	405
99	UNIV OF NORTH DAKOTA	N LAL	GSFC	C WOOD	NAG 5 8681	405
99	UNIV OF NORTH TEXAS HLTH SCI	A NURRIDIN	HQ	M SMITH	NGT 5 50179	491
99	UNIV OF NORTH TEXAS HLTH SCI	C W LLOYD	JSC	M L SMITH	NAG 9 1262	491
99	UNIV OF NOTRE DAME	R LAWRENCE	GRC	S JOHNSON	NAG 3 2418	221
99	UNIV OF OKLAHOMA - NORMAN	D D DETROYE	GSFC	V DUCA-SNOWDEN	NGT 5 40111	430
99	UNIV OF OKLAHOMA - NORMAN	D DETROYE	GSFC	V DUCA-SNOWDEN	NCC 5 398	430
99	UNIV OF OKLAHOMA - NORMAN	D DETROYE	GSFC	V DUCA-SNOWDEN	NCC 5 586	430
99	UNIV OF OKLAHOMA - NORMAN	J DASCH	GSFC	V DUCA-SNOWDEN	NCC 5 171	430
99	UNIV OF OKLAHOMA - NORMAN	L KEFFER	GSFC	V DUCA	NGT 5 40013	430
99	UNIV OF OREGON - EUGENE	P E HUNTER	GSFC	J SCHOMBERT	NAG 5 11300	435
99	UNIV OF PENNSYLVANIA	A NURRIDIN	HQ	D A HAMMER	NGT 5 50267	454
99	UNIV OF PENNSYLVANIA	J STANFORD	JSC	C J LAMBERTSEN	NAG 9 1265	453
99	UNIV OF PENNSYLVANIA	R CROUCH	GSFC	D N METAXAS	NAG 5 8767	452
99	UNIV OF PITTSBURGH	K BLANDING	GSFC	M DRUZDZEL	NGT 5 50252	456
99	UNIV OF PITTSBURGH	L SMITH	GSFC	B J YATES	NGT 5 50256	456
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99	UNIV OF PITTSBURGH	L SMITH	GSFC	C L COLBY	NGT 5 50318	456
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99	UNIV OF PUERTO RICO - MAYAGUEZ	B WHITE	HQ	R VASQUEZ	NCC 5 340	557
99	UNIV OF PUERTO RICO - MAYAGUEZ	D DETROYE	GSFC	D G WEINER	NGT 5 40012	558
99	UNIV OF PUERTO RICO - MAYAGUEZ	D L WILLIAMS	GSFC	R FERNANDEZ-SEIN	NCC 5 518	557
99	UNIV OF PUERTO RICO - MAYAGUEZ	D WILLIAMS	GSFC	R FERNANDEZ-SEIN	NCC 5 252	557
99	UNIV OF PUERTO RICO - MAYAGUEZ	J DIGGS	KSC	B RAMIREZ	NAG10 243	557
99	UNIV OF PUERTO RICO - MAYAGUEZ	J MARRA	GSFC	J CORREDOR	NAG 5 11296	557
99	UNIV OF PUERTO RICO-RIO PIEDRAS	D DETROYE	GSFC	B R WEINER	NCC 5 407	558
99	UNIV OF PUERTO RICO-RIO PIEDRAS	D DETROYE	GSFC	B WEINER	NCC 5 595	558
99	UNIV OF PUERTO RICO-RIO PIEDRAS	D DETROYE	GSFC	W WEINER	NGT 5 40091	558
99	UNIV OF REDLANDS	M PHELPS	HQ	P DOOLITTLE	NAG 5 9570	115
99	UNIV OF REDLANDS	M V PHELPS	GSFC	J R APPLETON	NAG 5 11366	115
99	UNIV OF RHODE ISLAND	J MARRA	GSFC	B UZ	NAG 5 10554	461
99	UNIV OF RHODE ISLAND	R A GRYMES	ARC	S D	NCC 2 1275	461
99	UNIV OF ROCHESTER	K BLANDING	GSFC	M BOCKO	NGT 5 50360	394
99	UNIV OF SAN DIEGO	M PHELPS	GSFC	S LOWERY	NAG 5 10049	115
99	UNIV OF SOUTH ALABAMA	J F DOWDY	MSFC	P KULKARNI	NAG 8 1397	16
99	UNIV OF SOUTH CAROLINA-COLUMBIA	D DETROYE	GSFC	J D ODOM	NCC 5 174	466
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99	UNIV OF SOUTH FLORIDA	J MARRA	GSFC	S ANDREFOUET	NAG 5 10908	178
99	UNIV OF SOUTH FLORIDA	M WEI	GSFC	F MULLER-KARGER	NGT 5 30414	179
99	UNIV OF SOUTH FLORIDA	M WEI	GSFC	P COBLE	NGT 5 30346	179
99	UNIV OF SOUTHERN CALIFORNIA	D SPEARS	GSFC	S SADHAL	NAG 5 11304	117
99	UNIV OF SOUTHERN CALIFORNIA	P DOTY	MSFC	P RONNEY	NAG 8 1701	118
99	UNIV OF SOUTHERN CALIFORNIA	P DOTY	MSFC	S SADHAL	NAG 8 1663	118
99	UNIV OF SOUTHERN CALIFORNIA	W J WAGNER	GSFC	E J RHODES	NAG 5 11001	117
99	UNIV OF SOUTHERN CALIFORNIA	W J WAGNER	GSFC	P K GANGOPADHAY	NAG 5 10989	117
99	UNIV OF TENNESSEE - KNOXVILLE	K BLANDING	GSFC	H Y MCSWEEN	NGT 5 50286	471
99	UNIV OF TENNESSEE - KNOXVILLE	R CROUCH	GSFC	G S SAYLER	NAG 5 8760	470
99	UNIV OF TEXAS - ARLINGTON	M WEI	GSFC	D COOK	NGT 5 30382	491
99	UNIV OF TEXAS - AUSTIN	D D DETROYE	GSFC	B D TAPLEY	NGT 5 40053	498
99	UNIV OF TEXAS - AUSTIN	D D DETROYE	GSFC	B TAPLEY	NGT 5 40083	498
99	UNIV OF TEXAS - AUSTIN	D J PEARSON	JSC	R H BISHOP	NGT 9 20	498
99	UNIV OF TEXAS - AUSTIN	D L CARTER	GSFC	P J SHELUS	NAS 5 01096	497
99	UNIV OF TEXAS - AUSTIN	H C MANDELL	JSC	B D TAPLEY	NAG 9 1060	496
99	UNIV OF TEXAS - AUSTIN	J LABRECQUE	GSFC	B D TAPLEY	NAG 5 9989	495
99	UNIV OF TEXAS - AUSTIN	J LABRECQUE	GSFC	B TAPLEY	NAG 5 6309	493
99	UNIV OF TEXAS - AUSTIN	J MCGARRY	GSFC	P J SHELUS	NAS 5 32997	497
99	UNIV OF TEXAS - AUSTIN	K BLANDING	GSFC	C OCAMPO	NGT 5 50361	498
99	UNIV OF TEXAS - AUSTIN	K BLANDING	GSFC	M CRAWFORD	NGT 5 50239	498
99	UNIV OF TEXAS - AUSTIN	K BLANDING	GSFC	S ROUX	NGT 5 50371	498
99	UNIV OF TEXAS - AUSTIN	L SMITH	GSFC	G J HILL	NGT 5 50301	498
99	UNIV OF TEXAS - AUSTIN	P CRANE	GSFC	P J SHELUS	NAG 5 10195	495
99	UNIV OF TEXAS - AUSTIN	T MORGAN	GSFC	E BARKER	NAG 5 10183	495
99	UNIV OF TEXAS - DALLAS	J BREDEKAMP	GSFC	M HAIRSTON	NAG 5 9297	498
99	UNIV OF TEXAS - DALLAS	M E MELLOTT	GSFC	R A HEELIS	NGT 5 50354	499
99	UNIV OF TEXAS - DALLAS	M MELLOTT	GSFC	R HEELIS	NAG 5 10271	498
99	UNIV OF TEXAS - EL PASO	B DELIWALA	KSC	R QUINTANA	NAG10 225	500
99	UNIV OF TEXAS - EL PASO	C HOLLINGSWORTH	GSFC	S BLAKE	NCC 5 468	500
99	UNIV OF TEXAS - EL PASO	J BRADEN	DFRC	R WICKER	NAG 4 150	499
99	UNIV OF TEXAS - EL PASO	J HARRINGTON	GSFC	H L SCHULTE	NCC 5 535	500
99	UNIV OF TEXAS - EL PASO	J LAMBRECQUE	GSFC	S STARKS	NCC 5 498	500
99	UNIV OF TEXAS - EL PASO	P SAKIMOTO	GSFC	S A STARKS	NCC 5 209	500
99	UNIV OF TEXAS - EL PASO	R D EASON	GSFC	M A KOLITSKY	NCC 5 207	500
99	UNIV OF TEXAS AT BROWNSVILLE	B WHITE	GSFC	J TELESE	NCC 5 438	501
99	UNIV OF TEXAS AT BROWNSVILLE	L ARMENDARIZ	JSC	A RIVAS	NAG 9 1304	501
99	UNIV OF TEXAS AT BROWNSVILLE	L ARMENDARIZ	JSC	J GARCIA	NAG 9 1238	501
99	UNIV OF TEXAS AT BROWNSVILLE	L ARMENDARIZ	JSC	O RIVAS	NAG 9 1054	500
99	UNIV OF TEXAS AT SAN ANTONIO	B J COLLINS	ARC	A T CHRONPOULOS	NAG 2 1383	501
99	UNIV OF TEXAS AT SAN ANTONIO	M J LEON	ARC	R F SINCOVEC	NAG 2 6040	501
99	UNIV OF THE INCARNATE WORD	B WHITE	GSFC	J BEAUFORD	NCC 5 465	501
99	UNIV OF TOLEDO	R CROUCH	GSFC	B GONG	NAG 5 8785	426
99	UNIV OF UTAH	D D DETROYE	GSFC	W WESTENSKOW	NGT 5 40101	504
99	UNIV OF UTAH	D DETROYE	GSFC	D WESTENSKOW	NGT 5 40066	504
99	UNIV OF UTAH	M WEI	GSFC	E SIPZER	NGT 5 30423	504
99	UNIV OF UTAH	M WEI	GSFC	G MACE	NGT 5 30398	503
99	UNIV OF VERMONT	D DETROYE	GSFC	W D LAKIN	NCC 5 581	507
99	UNIV OF VERMONT	D DETROYE	GSFC	W LAKIN	NCC 5 394	507
99	UNIV OF VERMONT	D DETROYE	GSFC	W LAKIN	NGT 5 40110	507
99	UNIV OF VERMONT	J BOYCE	GSFC	T RUSHMER	NAG 5 9532	506
99	UNIV OF VERMONT	J DASCH	HQ	W D LAKIN	NGT 5 40045	507
99	UNIV OF VERMONT	J F DOWDY	MSFC	G MIRCHANDANI	NAG 8 1281	506
99	UNIV OF VIRGINIA	L SMITH	GSFC	M C WIENER	NGT 5 50305	528
99	UNIV OF VIRGINIA	M MEYER	GSFC	S MACKO	NAG 5 9758	525
99	UNIV OF VIRGINIA	M WEI	GSFC	H SHUGART	NGT 5 30418	527
99	UNIV OF VIRGINIA	M WEI	GSFC	J FUENTES	NGT 5 30365	527
99	UNIV OF WASHINGTON	A NURRIDIN	GSFC	G LAKE	NGT 5 50078	543
99	UNIV OF WASHINGTON	C W LLOYD	JSC	F H SHEEHAN	NAG 9 1258	540
99	UNIV OF WASHINGTON	C YUHAS	GSFC	P HOBBS	NCC 5 550	541
99	UNIV OF WASHINGTON	D D DETROYE	GSFC	J DECOSMO	NGT 5 40084	543
99	UNIV OF WASHINGTON	D HARM	JSC	D E PARKER	NCC 9 56	541
99	UNIV OF WASHINGTON	D L JAN	JSC	D STAHL	NAG 9 1271	540
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99	UNIV OF WASHINGTON	K BLANDING	GSFC	J BARDEEN	NGT 5 50298	543
99	UNIV OF WASHINGTON	K OGIIVIE	GSFC	G PARKS	NAG 5 7114	536
99	UNIV OF WASHINGTON	K PARTINGTON	GSFC	D LETTENMAIER	NAG 5 10092	539
99	UNIV OF WASHINGTON	K PARTINGTON	GSFC	P MOURAD	NAG 5 10114	539
99	UNIV OF WASHINGTON	L KEFFER	GSFC	G K PARKS	NGT 5 40017	543
99	UNIV OF WASHINGTON	L SMITH	GSFC	J DALCANTON	NGT 5 50299	543
99	UNIV OF WASHINGTON	L SMITH	GSFC	R WINGLEE	NGT 5 50285	543
99	UNIV OF WASHINGTON	M WEI	GSFC	C NEWHALL	NGT 5 98	542
99	UNIV OF WASHINGTON	M WEI	GSFC	D LETTENMAIER	NGT 5 30120	542
99	UNIV OF WASHINGTON	M WEI	GSFC	R HOUZE	NGT 5 30378	542
99	UNIV OF WASHINGTON	M WEI	GSFC	R TYLER	NAG 5 10570	539
99	UNIV OF WASHINGTON	R A GRYMES	ARC	P D WARD	NCC 2 1273	541
99	UNIV OF WASHINGTON	S DAVISON	GSFC	V VOGEL	NAG 5 8784	538
99	UNIV OF WASHINGTON	W ABDALATI	GSFC	D WINEBRENNER	NAG 5 10225	539
99	UNIV OF WASHINGTON	W ABDALATI	GSFC	R LINDSAY	NAG 5 10621	539
99	UNIV OF WEST FLORIDA	B H WHITAKER	ARC	A J CANAS	NCC 2 1036	180
99	UNIV OF WEST FLORIDA	R CROUCH	GSFC	A K RAJ	NAG 5 8782	180
99	UNIV OF WISCONSIN - GREEN BAY	D D DETROYE	GSFC	R A YINGST	NGT 5 40097	546
99	UNIV OF WISCONSIN - MADISON	A PEEK	SSC	T LILLESAND	NCC13 00004	554
99	UNIV OF WISCONSIN - MADISON	C LLYOD	KSC	G DIAK	NAG13 99008	553
99	UNIV OF WISCONSIN - MADISON	D WICKLAND	GSFC	S T GOWER	NAG 5 11242	552
99	UNIV OF WISCONSIN - MADISON	G ASRAR	GSFC	J FOLEY	NGT 5 30119	554
99	UNIV OF WISCONSIN - MADISON	G STRINGFELLOW	GSFC	P TIMBIE	NAG 5 10204	551
99	UNIV OF WISCONSIN - MADISON	J BREDEKAMP	GSFC	W T SANDERS	NAG 5 9483	551
99	UNIV OF WISCONSIN - MADISON	J MARRA	GSFC	A WINGUTH	NAG 5 11245	552
99	UNIV OF WISCONSIN - MADISON	L SMITH	GSFC	J FOLEY	NGT 5 30176	555
99	UNIV OF WISCONSIN - MADISON	L SMITH	GSFC	J S GALLAGHER	NGT 5 50295	555
99	UNIV OF WISCONSIN - MADISON	M WEI	GSFC	J FOLEY	NGT 5 30396	555
99	UNIV OF WISCONSIN - MADISON	P DECOLA	GSFC	M HITCHMAN	NAG 5 11303	552
99	UNIV OF WISCONSIN - MADISON	W W DOLCI	ARC	C M JOHNSON	NCC 2 5449	554
99	UNIV OF WISCONSIN - MADISON	Y SUD	GSFC	G WAHBA	NAG 5 10273	552
99	UNIV OF WISCONSIN - MILWAUKEE	D E DETROYE	GSFC	J W NORBURY	NGT 5 40039	555
99	UNIV OF WYOMING	D BOGAN	GSFC	R N HOWELL	NAG 5 8917	556
99	UNIV OF WYOMING	D D DETROYE	GSFC	P E JOHNSON	NGT 5 40102	556
99	UNIV OF WYOMING	D DETROYE	GSFC	P E JOHNSON	NGT 5 40008	556
99	UNIV OF WYOMING	D DETROYE	GSFC	P JOHNSON	NCC 5 414	556
99	UNIV OF WYOMING	G L MADDREA	LARC	T DESHLER	NAG 1 2164	555
99	UNIV OF WYOMING	J GRANT	GSFC	R HOWELL	NAG 5 8904	556
99	UTAH STATE UNIV	A PEEK	SSC	R D RAMSEY	NCC13 00005	505
99	UTAH STATE UNIV	D DETROYE	GSFC	D BAKER	NGT 5 40047	506
99	UTAH STATE UNIV	D WICKLAND	GSFC	M WHITE	NAG 5 11282	505
99	UTAH STATE UNIV	M MELLOTT	GSFC	B G FEJER	NAG 5 10215	504
99	VA POLYTECH INST & ST UNIV	L SMITH	GSFC	B M KLEINER	NGT 5 50260	532
99	VA POLYTECH INST & ST UNIV	L SMITH	GSFC	W HERBERT	NGT 5 50262	532
99	VANDERBILT UNIV	D D DETROYE	GSFC	A M STRAUSS	NGT 5 40074	473
99	VANDERBILT UNIV	L KEFFER	GSFC	A M STRAUSS	NGT 5 40054	473
99	VANDERBILT UNIV	P DOTY	MSFC	K A DEBELAK	NAG 8 1662	472
99	VANDERBILT UNIV	P DOTY	MSFC	R J BAYUZICK	NAG 8 1677	472
99	VIRGINIA COMMONWEALTH UNIV	J S LOGAN	JSC	R C MERRELL	NCC 9 87	533
99	VOORHEES COLLEGE	C PERSON	GSFC	C SMITH	NAG 5 9624	466
99	WASHINGTON STATE UNIV	M AVERNER	GSFC	B W POOVAIAH	NAG 5 11364	544
99	WASHINGTON STATE UNIV	M WEI	GSFC	L JAEGLE	NAG 5 10637	544
99	WASHINGTON UNIV - ST	B CAMPBELL	GSFC	D A HASKIN	NAG 5 4642	333
99	WASHINGTON UNIV - ST	D E SMITH	GSFC	R J PHILLIPS	NAG 5 4435	333
99	WASHINGTON UNIV - ST	D SENSKE	GSFC	B JOLLIFF	NAG 5 10227	335
99	WASHINGTON UNIV - ST	D SENSKE	GSFC	R ARVIDSON	NAG 5 10158	335
99	WASHINGTON UNIV - ST	K BLANDING	GSFC	E SHOCK	NGT 5 50348	336
99	WASHINGTON UNIV - ST	L SMITH	GSFC	M ISRAEL	NGT 5 50240	336
99	WASHINGTON UNIV - ST	P CRANE	GSFC	C M WILL	NAG 5 10186	335
99	WAYNE STATE UNIV	B WOOLFORD	JSC	L ZAMORANO	NAG 9 1183	319
99	WEST VIRGINIA STATE COLLEGE	M MATHEWS	GSFC	E V GRIFFIN	NAG 5 11103	545
99	WEST VIRGINIA STATE COLLEGE	M MATHEWS	GSFC	J MAYHUGH	NAG 5 11088	545
99	WEST VIRGINIA UNIV	D DETROYE	GSFC	M JARAIEDI	NCC 5 406	545
99	WEST VIRGINIA UNIV	D DETROYE	GSFC	M JARAIEDI	NCC 5 570	545

FIELD CODE	INSTITUTION	TECHNICAL OFFICER	TECH OFF LOC.	FIRST PRINCIPAL INVESTIGATOR	AGREEMENT NUMBER	PAGE NUM.
99	WEST VIRGINIA UNIV	D DETROYE	GSFC	M JARAIEDI	NGT 5 40120	545
99	WEST VIRGINIA UNIV	D OZBURN	ARC	K DAVIS	NCC 2 6043	545
99	WEST VIRGINIA UNIV	G ASRAR	GSFC	S KITE	NGT 5 50103	546
99	WEST VIRGINIA UNIV	L KEFFER	GSFC	M JARAIEDI	NGT 5 40055	545
99	WEST VIRGINIA UNIV	M MELLOTT	GSFC	M KOEPKE	NAG 5 10218	545
99	WESTERN KENTUCKY UNIV	D D DETROYE	GSFC	R HACKNEY	NGT 5 40105	233
99	WESTERN KENTUCKY UNIV	D DETROYE	GSFC	R HACKNEY	NCC 5 222	232
99	WESTERN KENTUCKY UNIV	D DETROYE	GSFC	R HACKNEY	NCC 5 396	232
99	WESTERN KENTUCKY UNIV	D DETROYE	GSFC	R HACKNEY	NCC 5 571	233
99	WESTERN KENTUCKY UNIV	L KEFFER	GSFC	R HACKNEY	NGT 5 40051	233
99	WESTERN MICHIGAN UNIV	D S KEENAN	KSC	W J HOMAN	NAG10 279	320
99	WHEELING JESUIT UNIV	N CHEEKS	GSFC	J P ALLEN	NCC 5 440	546
99	WHEELING JESUIT UNIV	S CANRIGHT	GSFC	N NAIK	NCC 5 451	546
99	WILLIAM JEWELL COLLEGE	M P BODIFORD	MSFC	P BUNTON	NAG 8 1851	336
99	WOODS HOLE OCEANOGRAPHIC INST	J MARRA	GSFC	D MCGILLICUDDY	NAG 5 11265	305
99	WORCESTER POLYTECH INST	M R BROWN	GSFC	F J LOOFT	NAG 5 8578	306
99	WORCESTER POLYTECH INST	M R BROWN	GSFC	F J LOOFT	NAG 5 9754	306
99	WORCESTER POLYTECH INST	S J BRODEUR	GSFC	F J LOOFT	NAG 5 10712	306
99	XAVIER UNIV - LOUISIANA	C PERSON	GSFC	A Z CHATTERS	NGT 5 90086	238
99	XAVIER UNIV - LOUISIANA	N SULLIVAN	SSC	R P HALE	NAG13 53	238
99	XAVIER UNIV - LOUISIANA	R TRAVIS	JSC	S O	NAG13 98006	238
99	YALE UNIV	A NURRIDIN	HQ	PROBER	NGT 5 50042	148
99	YALE UNIV	G GUTMAN	GSFC	L M CURRAN	NAG 5 11335	148
99	YALE UNIV	K BLANDING	GSFC	C E BAILYN	NGT 5 50287	149
99	YALE UNIV	M WEI	GSFC	D FISH	NGT 5 30371	148