APPENDIX E

Grants for the International Geophysical Year Program

AURORA AND AIRGLOW		Data Reduction-Antarctic Ice	
AIR FORCE CAMBRIDGE RESEARCH CENTER:		Sampling, Isotone Ratios	22, 999
Data Reduction-Patrol Spectro-		OHIO STATE UNIVERSITY: Antarctic Data Reduction and	
graph	\$66, 060	Publication	27, 150
NATIONAL BUREAU OF STANDARDS: Airglow Data Reduction	01 775	UNIVERSITY OF WASHINGTON:	
Operational Costs and Coordina-	21, 775	Meteorological Studies and Data Reduction in Western United	
tion of Northern Stations	10, 327	States (Blue Glacier)	7, 300
COSMIC RAYS		Data Reduction of Arctic Sea Ice Physics	
UNIVERSITY OF IOWA:		1	6, 022
Data Reduction in High Altitude		GRAVITY MEASUREMENTS	
Cosmic Ray Measurements in the Arctic	5, 482	ARCTIC INSTITUTE OF NORTH	
University of Maryland:	0, 102	AMERICA:	
Reduction of Cosmic Ray Counter		Recruitment, Hiring, and Travel	
DataUniversity of Minnesota:	2, 000	of Scientists for the Antarctic UNIVERSITY OF CALIFORNIA:	1, 500
Monitoring and Data Reduction		Observation and Data Reduction	
of Cosmic Ray Intensities at		of Mean Rigidity of the Earth	9, 450
High Altitude	24, 380	COLUMBIA UNIVERSITY: Reduction of Gravity Measure-	
University of New Hampshire:		ments	0.000
Reduction and Study of Neutron Intensity-Time Variations	3, 536	UNIVERSITY OF WISCONSIN.	3, 200
University of New Mexico:	ə, əəo	Antarctic Data Reduction and	
Data Reduction-Semidiurnal		Publication	9, 980
Planetary Variation of Atmos-		Gravity Measurements in Connection with the International	
pheric Pressure	3, 600	Geophysical Year Gravity Pro-	
GEOMAGNETISM		gram	6, 500
UNIVERSITY OF CALIFORNIA:		IONOSPHERIC PHYSICS	-,
Operation of Jarvis and Palmyra Magnetic Stations	10.000	-	
U.S. COAST AND GEODETIC SUR-	16, 000	University of Alaska:	
VEY:		Operation of an Atmospheric Whistler Station in Alaska	E 000
Data Reduction and Publication		DARTMOUTH COLLEGE:	5, 630
in Coordinating and Adminis- tering the Geomagnetism Pro-		Data Reduction of Atmospheric	
gram	103, 610	Whistlers-East	23, 900
GLACIOLOGY	100, 010	NATIONAL BUREAU OF STANDARDS:	
		Operation of South American Ionospheric Sounding Sta-	
AMERICAN GEOGRAPHICAL SO- CIETY:		tions	4, 461
Data Reduction of Glacier Ob-		Operation of Six Antarctic Sta-	2, 101
servations in Southern Alas-		tions in Ionospheric Physics	
ka	13, 915	NetworkIonospheric Quality Control and	16, 701
Data Reduction of Photogram- metry and Mapping	7, 500	Training	5, 130
ARCTIC INSTITUTE OF NORTH	1, 500	Equatorial VHF Ionospheric For-	0, 200
AMERICA:		ward Scatter Measurements	1,012
Recruitment, Hiring, and Travel		Fixed Frequency Backscatter Measurements	9 800
of International Geophysical Year Scientists for the Antarc-		Data Reduction and Publication	3, 599
tie	19, 280	for VHF Oblique Incidence	
Data Reduction in Glaciology on	,	Sporadic-E Field Strength	
Mt. Michelson	29, 850	Measurements	14, 234
Logistic Equipment and Supplies	8. 000	Ionospheric Quality Control and Publication	82, 017
CALIFORNIA INSTITUTE OF TECH- NOLOGY:	8, 000	PENNSYLVANIA STATE UNIVER-	02, 011
Data Reduction-Glacier Dynam-		Atmospheric Absorption-Pulse	
108 of Blue Glacier Olympic	İ	Method	1, 848
Mountains	2, 000	True Height Determination	8, 488

Co. Macon Turumana		SOLAR ACTIVITY	
STANFORD UNIVERSITY: Data Reduction in Establishing		University of Hawaii	
the Latitude Dependence and	1	Solar Activity Flare Patrol in	
Occurrence at Conjugate Geo- magnetic Locations of Whis-		Hawaii	3, 500
tlers in the West	35, 305	HIGH ALTITUDE OBSERVATORY Visual Observations	5, 000
Fixed Frequency Backscatter		University of Michigan	-,
Measurements	13, 275	Operational Costs and Data Re-	
LONGITUDE AND LATITUDE	j	duction of McMath-Hulbert	
U.S. COAST AND GEODETIC SUR-		Observatory Solar Activity Program	3, 950
VEY: Longitude and Latitude Measure-		NATIONAL BUREAU OF STANDARDS	
naents in Hawaii	4, 000	Data Reduction and Publication	19, 686
METEOROLOGY		RENSSELAER POLYTECHNIC IN-	
SMITHSONIAN INSTITUTION:		Data Reduction of Indirect Flare	
Data Reduction-Earth Albedo Ob-		Detection Instrumentation	1, 725
servations	4, 000	WORLD DAYS	
U.S. WEATHER BURBAU:	41 050	NATIONAL BUREAU OF STANDARDS	
Data Reduction and Publication_ Procurement of Equipment and	41, 950	Operation of U.S. and World	
Supplies for Antarctica	103, 000	Warning Center	72, 810
Arctic Ice-Floe Meteorological		GENERAL RELATED SCIEN-	
StationsReduction and Preparation for	7, 625	TIFIC SUPPORT	
Publication of Arctic and Ant-		ARCTIC INSTITUTE OF NORTH	
arctic Meteorological Data	29, 800	AMERICA	
OCEANOGRAPHY		Antarctic Scientific Field Super- vision Costs (4)	790
UNIVERSITY OF CALIFORNIA:		Antarctic Scientific Field Super-	
Procurement of Equipment for		vision Costs (6)	950
Use in the Island Observa- tories	7, 000	U.S. DEPARTMENT OF THE INTERIOR	
Data Reduction for Deep Current		Scientific Station Leader in the	
Program in the Pacific	5, 000	Antarctic	3, 550
COLUMBIA UNIVERSITY:		U.S. DEPARTMENT OF THE NAVY	
Operational Costs and Data Re- duction of Deep Current Ocean-		Antarctic Scientific Field Super- vision Costs	6, 301
ography in the Atlantic	43, 000	U.S. WEATHER BUREAU	•,
TEXAS A & M:		Antarctic Planning Staff	6, 290
Data Reduction in Deep Current	9 000	WORLD DATA CENTER	
Oceanography in the Atlantic.	3, 00 0	UNIVERSITY OF ALASKA	
WOODS HOLE OCEANOGRAPHIC IN- STITUTION:		Archives in Aurora	58, 310
Operational Costs and Related		AMERICAN GEOGRAPHICAL	
Expenses in Deep Current	* 000	SOCIETY Archives in Glaciology	40, 407
Oceanography in the Atlantic.	5, 000	U.S. COAST AND GEODETIC	•
ROCKETRY		SURVEY Company Cross	
U.S. DEPARTMENT OF THE ARMY: Procurement of Rockets and		Archives in Geomagnetism, Grav- ity, and Seismology	61, 800
Equipment and Partial Oper-		CORNELL UNIVERSITY	
ational Costs on Guam	20, 000	Archives in Aurora	63, 750
SEISMOLOGY		High ALTITUDE OBSERVATORY Archives in Solar Activity	18, 360
ARCTIC INSTITUTE OF NORTH		University of Minnesota	
AMERICA: Antarctic Seismology Program		Archives in Cosmic Rays	29, 774
(Personnel)	4, 690	NATIONAL BUREAU OF STANDARDS	
CALIFORNIA INSTITUTE OF TECH-	,	Operation of the Data Coordi-	
NOLOGY		nation Office	71, 660
Data Reduction-Equipment for Use in the Antarctic	3, 450	Archives in Airglow and Iono-	113, 370
Data Reduction in the Study of	0, 100	NATIONAL ACADEMY OF SCIENCES-	115, 510
Crustal Strain Accumulation_		NATIONAL RESEARCH COUNCIL	
Clustal Strain Accumulation.	540		
U.S. COAST AND GEODETIC SURVEY:		Rocket and Satellite World Data	10 500
U.S. COAST AND GEODETIC SURVEY: Procurement of Seismographs for		Rocket and Satellite World Data	19, 500
U.S. COAST AND GEODETIC SURVEY: Procurement of Seismographs for Operations in the Pacific Ocean		Rocket and Satellite World Data Center "A" TEXAS A. & M. Archives in Oceanography	19, 500 49, 37 2
U.S. COAST AND GEODETIC SURVEY: Procurement of Seismographs for	:	Rocket and Satellite World Data Center "A" TEXAS A. & M. Archives in Oceanography U. S. Weather Bureau	49, 372
U.S. COAST AND GEODETIC SURVEY: Procurement of Seismographs for Operations in the Pacific Ocean Area COLUMBIA UNIVERSITY: Seismic Measurements in the	2, 350	Rocket and Satellite World Data Center "A" TEXAS A. & M. Archives in Oceanography U. S. Weather Bureau Archives in Meteorology	19, 500 49, 372 71, 000
U.S. COAST AND GEODETIC SURVEY: Procurement of Seismographs for Operations in the Pacific Ocean Area COLUMBIA UNIVERSITY: Seismic Measurements in the Atlantic	2, 35 0 8, 000	Rocket and Satellite World Data Center "A" TEXAS A. & M. Archives in Oceanography U. S. Weather Bureau Archives in Meteorology INTERDISCIPLINARY	49, 372
U.S. COAST AND GEODETIC SURVEY: Procurement of Seismographs for Operations in the Pacific Ocean Area COLUMBIA UNIVERSITY: Seismic Measurements in the Atlantic Data Reduction and Publication	2, 350	Rocket and Satellite World Data Center "A" TEXAS A. & M. Archives in Oceanography U. S. Weather Bureau Archives in Meteorology	49, 372
U.S. COAST AND GEODETIC SURVEY: Procurement of Seismographs for Operations in the Pacific Ocean Area COLUMBIA UNIVERSITY: Seismic Measurements in the Atlantic Data Reduction and Publication UNIVERSITY OF WISCONSIN: Data Reduction and Publication	2, 35 0 8, 000	Rocket and Satellite World Data Center "A" TEXAS A. & M. Archives in Oceanography U. S. Weather Bureau Archives in Meteorology INTERDISCIPLINARY RESEARCH CRUST AND CORE	49, 372
U.S. COAST AND GEODETIC SURVEY: Procurement of Seismographs for Operations in the Pacific Ocean Area Columbia University: Seismic Measurements in the Atlantic Data Reduction and Publication University of Wisconsin:	2, 350 8, 000 12, 420	Rocket and Satellite World Data Center "A" TEXAS A. & M. Archives in Oceanography U. S. Weather Bureau Archives in Meteorology INTERDISCIPLINARY RESEARCH CRUST AND CORE CALIFORNIA INSTITUTE OF TECH-	49, 372

Solar Flare Studies-Flare Mechanisty Constitution of Crustal Structure Support of Anticytical Support of Support of Support of Support of Anticytical Support of S	Analysis of Cosmic Ray Data	8, 000		1, 883, 750
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Territories of County and Analysis of Start University of Marine Seismic Data— U.S. Coast AND GROOTH Surveys and Pacific Records— Collembal University of Analysis of Arctic, Analarctic, and Pacific Records— Collembal University of Wisconsis Manalysis of Gravity Observa— University of Wisconsis Manalysis of Gravity Observa— University of Wisconsis Manalysis of Gravity Observa— University of Gravity Observa— University of Gravity and Travel Time Measurements— EEAT AND WATES University of Collega, Collega, Spots of High Attrophysics of High Allians of High Attrophysics of Start University of Collega Condendary District Microme- Data— Collembal University Analysis of Oceanographic Data— Collembal University Analysis of Oceanographic Data— Collembal University Analysis of Antarctic Microme- Data— Collembal University Analysis of Cocanographic Data— Collembal University Analysis of Antarctic Microme- Data— Collembal University Analysis of Cocanographic Data— Collembal	Research in Solar and Solar-		TISTS AND ENGINEERS:	
tensometer Data Studies of Crustal Structure 22, 105 Structure 22, 105 Structure 22, 105 Structure 22, 105 Structure 23, 000 Solar Flare Studies-Line Spectra 27, 500 Solar Flare Studies 10, 500 Solar Flare S	Data	38, 000	and Central Operation	325, 122
tensometer Data Studies of Crustal Structure University of California Studies of Crustal Structure Determination Using Gravity and Stome Data. Columbia University of California Geochemical Data (CO, Studies) Analysis of Oceanographic Data. Data. Columbia University of California Columbia Columbia University of California Columbia Colum	Analysis of Synoptic Cosmic Ray		serving Program	149,000
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Solar Flare Studies-Flare Mechanisms	Latitude	32,000	Cost of Optical Tracking Sta-	400
Solar Flare Studies-Flare Mechanisms	of Activity Patterns and Mag-			
Solar Flare Studies-Flare Mechanism	Study of Equatorial Enhance- ment of Transients and Study		EARTH SATELLITE OPTI-	
tensometer Data—Analytical Studies of Crustal Structure—Structure—Structure—Structure—Structure—Study of Marine Seismic Data—Lus. Coast and Educations—Study of Marine Seismic Data—Us. Coast and Educations—Study of Marine Seismic Data—Us. Coast and Educations—Study and Seismic Data—University of Wisconsin Analysis of Land and Sea Gravity and Seismic Data—University of Wisconsin Analysis of Gravity Observa—tions—Studies—Structure Determination Using Gravity and Travel Time Measurements——Hohat Analysis of Cocanographic—Data—University of Collimate University Analysis of Sunday of Cocanographic—Data—University—Studies—Study—Analysis of Oceanographic—Data—University of Washington Analysis of Oceanographic—Data—University of Washington Analysis of Geochemical Data—Store Cooled Data	Survey		Radiation Balance of the Earth_	7, 500
tensometer Data— Analytical Studies of Crustal Structure— UNIVERSITY OF CALIFORNIA Study of Marine Seismic Data— US. COAST AND GEODETIC SURVEY Analysis of Arctic, Antarctic, and Pacific Records— COLUMBIA UNIVERSITY Analysis of Land and Sea Grav- ity and Seismic Data— UNIVERSITY of CAISONIN Analysis of Land and Sea Grav- ity and Seismic Data— UNIVERSITY of CAISONIN Analysis of Gravity Observa— tions— Crustal Structure Determination Using Gravity and Travel Time Measurements— BEAT AND WATER UNIVERSITY of CAISONIN Analysis of Oceanographic Data— Dolar— HIGH ALTITUDE OBSERVATORY Theoretical Study of Ozone Data— Analysis of Oceanographic Data— OHIO STATE UNIVERSITY Analysis of Oceanographic Data— Analysis of Cocanographic Data— Analysis of Geenographic Data— Analysis of Geenographic Data— Analysis of Deenographic Data— Analysis of Cocanographic Data— Analysis of Deenographic Data— Analysis of Cocanographic Data— CULYPER ATMOSPHERE UNIVERSITY OF ALASKA Study and Analysis of Alaskan Data— D	U.S. COAST AND GEODETIC	18, 287	University of Wisconsin:	23, 000
tensometer Data	UNIVERSITY OF CALIFORNIA	200, 000	agation Studies Utilizing Satel.	
tensometer Data	Study and Analysis of Alaskan	200 000	Electron Density and Radio Prop-	
tensometer Data	UNIVERSITY OF ALASKA		Spaced Locations	33, 258
tensometer Data Analytical Studies of Crustal Structure UNIVERSITY OF CALIFORNIA Study of Marine Selsmic Data US. COAST AND GEODETIC SURVEY Analysis of Arctic, Antarctic, and Pacific Records COLUMBIA UNIVERSITY Analysis of Land and Sea Grav- tity and Selsmic Data UNIVERSITY OF WISCONSIN Analysis of Gravity Observa- tions Crustal Structure Determination Using Gravity and Travel Time Measurements HEAT AND WATER UNIVERSITY OF CALIFORNIA Geochemical Data (CO, Studies) Analysis of Oceanographic Data HIGH ALTITUDE OBSERVATORY Theoretical Study of Ozone Data Analysis of Antarctic Micrometeorological Data Data Analysis of Oceanographic Data Analysis of Oceanographic Data UNIVERSITY OF WASHINGTON Analysis of Oceanographic Data UNIVERSITY OF UNIVERSITY OF WASHINGTON Analysis of Oceanographic Data UNIVERSITY OF UNIVERSITY OF WASHINGTON Analysis of Oceanographic Data UNIVERSITY OF UNIVERSITY OF WASHINGTON Analysis of Oceanographic Data UNIVERSITY OF UNIVERSITY OF WASHINGTON Analysis of Oceanographic Data UNIVERSITY OF UNIVERSITY OF WASHINGTON Analysis of Oceanographic Data UNIVERSITY OF UNIVERSITY OF WASHINGTON Analysis of Oceanographic Data UNIVERSITY OF UN		.,	Doppler Measurements From	
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Analytical Studies of Crustal Structure UNIVERSITY OF CALIFORNIA Study of Marine Seismic Data_ U.S. Coast and Geodetic Survey Analysis of Arctic, Antarctic, and Pacific Records_ COLUMBLA UNIVERSITY Analysis of Land and Sea Gravity Observations_ Analysis of Gravity Observations_ UNIVERSITY OF WISCONSIN Analysis of Gravity and Travel Time Measurements_ UNIVERSITY of CALIFORNIA Geochemical Data (CO_2 Studies)_ Analysis of Oceanographic Data_ COLUMBLA UNIVERSITY Analysis of Oceanographic Data_ HIGH ALTITUBE OBSERVATORY Theoretical Study of Ozone Data_ Anilysis of Antarctic Micrometeorological Data_ CINIVERSITY OF WASHINGTON Analysis of Oceanographic Data_ Analysis of Oceanographic Data_ Anilysis of Solar Flare Studies-Line Spectra	Institution	ļ	Electron Density Profiles	
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tensometer Data	U.S. WEATHER BUREAU	,	Absolute Signal Strength and	
tensometer Data	meteorological Records	6, 568	Analysis	9, 627
tensometer Data	Analysis of Blue Glacter Micro	30, 000	Radio Interferometry and Data	
tensometer Data	Analysis of Oceanographic		Micrometeor Detection	25,000
Analytical Studies of Crustal Structure UNIVERSITY OF CALIFORNIA Study of Marine Seismic Data U.S. COAST AND GEODETIC SURVEY Analysis of Arctic, Antarctic, and Pacific Records COLUMBIA UNIVERSITY Analysis of Land and Sea Gravity and Seismic Data UNIVERSITY OF WISCONSIN Analysis of Gravity Observations Using Gravity and Travel Time Measurements HEAT AND WATER UNIVERSITY OF CALIFORNIA Geochemical Data (CO ₂ Studies) Analysis of Oceanographic Data Analysis of Oceanographic Data COLUMBIA UNIVERSITY Analysis of Oceanographic Data HIGH ALTITUDE OBSEEVATORY Theoretical Study of Ozone Data HIGH ALTITUDE OBSEEVATORY Analysis of Anarctic Micrometorological Data TEXAS A. & M. Analysis of Oceanographic Corological Data TEXAS A. & M. Analysis of Oceanographic Cological Data TEXAS A. & M. Analysis of Oceanographic Cological Data TEXAS A. & M. Analysis of Oceanographic Cological Cological Data TEXAS A. & M. Analysis of Oceanographic Cological Data TEXAS A. & M. Analysis of Oceanographic Cological Data TEXAS A. & M. Analysis of Oceanographic Cological Data TEXAS A. & M. Analysis of Oceanographic Cological Data TEXAS A. & M. Analysis of Oceanographic TEXAS A. & M. Analysis of Oceanographic Cological Data TEXAS A. & M. Analysis of Oceanographic TEXAS A. & M. STATE UNIVERSITY Analysis of Oceanographic TEXAS A. & M. Analysis of Oceanographic TEXAS A. & M. Analysis of Oceanographic TEXAS A. & M. TEXAS A. &	UNIVERSITY OF WASHINGTON	au, 000	U.S. DEPARTMENT OF THE ARMY.	
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tensometer Data	TEXAS A. & M.	01,010	EARTH SATELLITE SOUTH	40, 000
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Solar Flare Studies-Flare Mechanism	Antarctic Water Budget Study	10, 350	Special Research Surveys by Dis-	
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Analytical Studies of Crustal Structure UNIVERSITY OF CALIFORNIA Study of Marine Seismic Data U.S. COAST AND GEODETIC SURVEY Analysis of Arctic, Antarctic, and Pacific Records COLUMBIA UNIVERSITY Analysis of Land and Sea Gravity and Seismic Data UNIVERSITY OF WISCONSIN Analysis of Gravity Observations Crustal Structure Determination Using Gravity and Travel Time Measurements HEAT AND WATER UNIVERSITY OF CALIFORNIA Geochemical Data (CO ₂ Studies) Analysis of Oceanographic Data Data COLUMBIA UNIVERSITY Analysis of Oceanographic Data HIGH ALTITUDE OBSERVATORY 30,000 Solar Flare Studies-Flare Mechanism 22,195 Solar Flare Studies-Flare Mechanism 22,195 Solar Flare Studies-Line Spectra UNIVERSITY OF MINNESOTA High Altitude Balloon Observations 10,000 NATIONAL BUREAU OF STANDARDS Theoretical Studies of High Atmosphere Data 10,000 NATIONAL BUREAU OF STANDARDS Theoretical Studies of High Atmosphere Data 22,000 NEW YORK UNIVERSITY Analysis of Synoptic Cosmic Ray Data Data Data STATFORD UNIVERSITY Analysis of Solar Phenomena and Radio Noise STATFORD UNIVERSITY: Ionospheric Data STAMFORD UNIVERSITY: Ionospheric Data 44,000 CARNBGIE INSTITUTION OF WASH- INGTON: Special Research Suvers be Dis-	Theoretical Study of Ozone Data	19 000	l tinguished Scientists From	
Analytical Studies of Crustal Structure————————————————————————————————————	HIGH ALTITUDE OBSERVATORY	**, VUU		
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