

NASA's Earth Observing System

Global Change Media Directory

2001



National Aeronautics and
Space Administration

Goddard Space Flight Center
Greenbelt, MD 20771

About This Media Directory

The **EOS Global Change Media Directory 2001** provides journalists with a ready source of international expertise on global change science and policy. The 343 scientists included in this directory represent over 30 scientific disciplines at the center of NASA's Earth Observing System (EOS) program, from ozone chemistry and natural hazards to global warming and ecosystems.

The scientists listed in this directory have expressed an interest in working with the media and many have agreed to answer reporters' queries within 24 hours.

To find an expert on a particular scientific or policy issue related to global change, see the "Areas of Expertise" index on page 63. Researchers' biographical listings (see page 9) provide contact information, detailed descriptions of their areas of scientific and policy expertise, personal Web sites, and their role in the EOS program.

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NASA's Earth Science Enterprise

The purpose of NASA's Earth Science Enterprise is to understand the total Earth system and the effects of natural and human-induced changes on the global environment. The Office of Earth Science is pioneering the new interdisciplinary field of research called Earth system science, born of the recognition that the Earth's land surface, oceans, atmosphere, ice sheets and biota are both dynamic and highly interactive. NASA's Earth Science Enterprise has evolved from what was previously called the Mission to Planet Earth.

The Office of Earth Science comprises an integrated slate of spacecraft and in situ measurement capabilities; data and information management systems to acquire, process, archive and distribute global data sets; and research and analysis projects to convert data into new knowledge of the Earth system. The office is NASA's contribution to the U.S. Global Change Research Program (USGCRP), an interagency effort to understand the processes and patterns of global change. NASA is the largest partner in the USGCRP, providing the bulk of the program's space-based observational efforts. NASA collaborates extensively with the National Oceanic and Atmospheric Administration on short-term climate event prediction.

The Earth Observing System, the centerpiece of the Office of Earth Science, is a program of multiple spacecraft and interdisciplinary science investigations to provide a data set of key parameters needed to understand global change. The first EOS satellites, Landsat 7 and Terra, were launched in 1999. Landsat 7 carries a single instrument, the Enhanced Thematic Mapper Plus, which makes detailed measurements of land surface and surrounding coastal regions. Terra provides key measurements that will

significantly contribute to our understanding of the total Earth system. The five instruments on Terra gather information about the physical and radiative properties of clouds, air-land and air-sea exchanges of energy, carbon, and water, measurements of trace gases, and volcanology, vegetation, and ocean phytoplankton. Several additional spacecraft and instruments are scheduled to fly as part of the EOS program in the next few years.

Complementing the EOS missions, under the Earth Probes program, is a series of small, rapid development Earth System Science Pathfinder (ESSP) missions to study emerging science questions and to use innovative measurement techniques in support of EOS. The New Millennium Program, started in 1996, is designed to identify, develop, and flight-validate key instrument and spacecraft technologies that can enable new or more cost-effective approaches to conducting science missions in the 21st century.

The Enterprise is currently defining concepts for science and applications missions in the post-2002 time frame. NASA has obtained a first round of ideas from the science and applications communities for these mission concepts and is using them to build a multi-mission profile for Earth observation satellite missions in the 2003-2010 time frame.

Data from Earth science missions, both current and future, will be captured, processed into useful information, and broadly distributed by the EOS Data Information System (EOSDIS). EOSDIS will ensure that data from these diverse missions remain available in active archives for use by current and future scientists. Since these data are expected to find uses beyond the Earth science research community, EOSDIS will ultimately be accessible by environmental decision-

makers, resource managers, commercial firms, social scientists, educators, and state and local government.

In addition to the EOSDIS that will produce data products for a wide range of users, NASA is engaging in a variety of activities to extend the utility of Earth science data to a broader range of users such as Regional Earth Science Applications Centers. Efforts are under way to fuse science data, socio-economic data and other data sets that can be "geo-referenced" in readily understandable data visualizations.

Following the recommendation of the National Research Council, NASA is exploring the creation of a federation of Earth science information partners in academia, industry and government to broaden the participation in the creation and distribution of EOSDIS information products. As a federation pilot project, 24 organizations were selected in 1997 to become Earth Science Information Partners (ESIPs) to develop innovative science and applications products.

The intellectual capital behind Earth science missions, and the key to generating new knowledge from them, is vested in an active program

of research and analysis. Over 1,500 scientific research tasks from nearly every U.S. state are funded by the Earth science research and analysis program. Scientists from seventeen other nations, funded by their own countries and collaborating with U.S. researchers, are also part of the Earth science program. These researchers develop Earth system models from Earth science data, conduct laboratory and field experiments, run aircraft campaigns, and develop new instruments.

The Science Division within the Office of Earth Science at NASA Headquarters provides scientific oversight of a wide range of Earth science projects. Lead by Dr. Jack Kaye, the 15 discipline-specific programs include atmospheric chemistry modeling and analysis, atmospheric dynamics, ecology, global atmospheric modeling and analysis, global change data analysis, international programs, oceans, physical oceanography, polar processes, radiation science, solid Earth, stratospheric chemistry, terrestrial ecology, tropospheric chemistry, and water cycle processes.

The Earth Observing System

The overall goal of NASA's Earth Observing System (EOS) is to advance the understanding of the entire Earth system on a global scale by improving our knowledge of the components of the system, the interactions between them, and how the Earth system is changing. The EOS program mission goals are to:

- Create an integrated, scientific observing system emphasizing climate change that will enable multi-disciplinary study of the Earth's critical, life-enabling, interrelated processes.
- Develop a comprehensive data information system, including a data retrieval and processing system.
- Serve the needs of scientists performing an integrated multi-disciplinary study of planet Earth and to make Earth science data and information publicly available.
- Acquire and assemble a global database for remote-sensing measurements from space over a decade or more to enable definitive and conclusive studies of Earth system attributes.

The three main EOS spacecraft – Terra, Aqua, and Aura – will support a broad range of scientific investigations and instruments. Nearly all key EOS missions include international contributions. For example, Terra will fly an instrument from Canada (Measurements of Pollution In The Troposphere, MOPITT) and one from Japan (Advanced Spaceborne Thermal Emission and Reflection Radiometer, ASTER). The Aqua

spacecraft will include the Japanese Advanced Microwave Scanning Radiometer (AMSR) instrument and the Humidity Sounder for Brazil (HSB). In addition, numerous agreements have been signed for joint data exchange and distribution, including cooperation in EOSDIS.

EOS sponsors many interdisciplinary research (IDS) projects using remote-sensing data sets for a broader investigation into the function of Earth systems. Current EOS research spans a wide range of sciences, including atmospheric chemistry, hydrology, land use, and marine ecosystems.

The EOS Investigators Working Group (IWG), formed in 1989, consists of instrument and interdisciplinary principal investigators and team leaders to provide scientific advice and guidance for the program. The working bodies of the IWG include twelve science panels. Membership on the panels is generally open to all EOS investigators, including co-investigators on any EOS investigation. The IWG plays a leading role in defining the overall science thrust for the EOS program. It coordinates the research efforts and provides guidance and advice to the EOS program and project, as appropriate, concerning all major scientific issues.

The EOS Project Science Office at Goddard Space Flight Center consists of the Senior Project Scientist as well as Project Scientists associated with the various EOS payloads and the EOSDIS. This office serves as the primary day-to-day interface between the Earth science community and the EOS projects at Goddard, Langley Research Center, and the Jet Propulsion Laboratory.

EOS Project Scientists

(All scientists located at NASA Goddard Space Flight Center except when indicated otherwise)

Senior Project Scientist: Michael D. King

ACRIMSAT Project Scientist: Richard Wilson,
Columbia University

Aqua Project Scientist: Claire L. Parkinson
Aqua Deputy Project Scientists: Alfred T. Chang,
Peter Hildebrand

Aura Project Scientist: Mark Schoeberl
Aura Deputy Project Scientists: Ernest
Hilsenrath, Anne Douglass

EOS Validation Scientist: David Starr

EOS Calibration Scientist: James Butler

EOSDIS Project Scientist: Carl Skip Reber

ESSP Project Scientist: Mark Imhoff

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ICESat Deputy Project Scientist: Waleed Abdalati

Jason 1 Project Scientist: Lee-Leung Fu

Landsat 7 Project Scientist: Darrel L. Williams
Landsat 7 Deputy Project Scientist: James R.
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(QuikScat) SeaWinds Project Scientist: Timothy
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SAGE III Project Scientist: William Chu, NASA
Langley Research Center

SORCE Project Scientist: Robert F. Cahalan

Terra Project Scientist: Jon Ranson
Terra Deputy Project Scientist: Si-Chee Tsay

EOS Spacecraft and Instruments

(In chronological order by launch date. Scheduled launch dates are subject to change.)

Landsat 7 (April 15, 1999)

Landsat 7 gathers images of land surface and coastal regions for global change research, regional environmental change studies, national security uses, and other civil and commercial purposes. The Landsat 7 system collects and archives an unprecedented quantity of high-quality multispectral data each day. The single instrument on board Landsat 7 is the Enhanced Thematic Mapper Plus (ETM+), a passive sensor that measures solar radiation reflected or emitted by the Earth's surface. The instrument has eight bands sensitive to different wavelengths of visible and infrared radiation.

Web site: landsat.gsfc.nasa.gov/

QuikScat (June 19, 1999)

The SeaWinds instrument on the QuikScat mission is a specialized microwave radar that measures near-surface wind speed and direction under all weather and cloud conditions over the Earth's oceans.

Web site: winds.jpl.nasa.gov/missions/quikscat/quikindex.html

Terra (December 18, 1999)

The flagship of the EOS program, Terra observes the Earth's continents, oceans, and atmosphere with five state-of-the-art instruments achieving measurement capability and accuracy never flown before. A polar-orbiting spacecraft, Terra orbits the Earth in synch with the Sun, with its path over the ground descending across the equator at the same local time every day (approximately 10:30 a.m.).

Terra is a joint project between the United States, Japan, and Canada. NASA provided the spacecraft and three instruments: CERES (Clouds and the Earth's Radiant Energy System), MISR (Multi-Angle Imaging Spectroradiometer), and MODIS (Moderate-Resolution Imaging Spectroradiometer). The Japanese Ministry of International Trade and Industry provided ASTER (Advanced Spaceborne Thermal Emission and Reflection Radiometer). The Canadian Space Agency/University of Toronto provided MOPITT (Measurements of Pollution In The Troposphere).

Web site: terra.nasa.gov/

ACRIMSAT (December 20, 1999)

ACRIMSAT is a small satellite dedicated to the Active Cavity Radiometer Irradiance Monitor (ACRIM) instrument. ACRIM provides long-term, precise measurements of the total amount of the Sun's energy that falls on our planet.

Web site: acrim.jpl.nasa.gov/

Jason-1 (March 2001)

Jason-1 is a joint U.S.-France (Centre National d'Etudes Spatiales) oceanography mission designed to monitor global ocean circulation, probe the connection between the oceans and atmosphere, improve global climate predictions, and monitor events such as El Niño and La Niña.

Web site: topex-www.jpl.nasa.gov/jason1/

SAGE III on METEOR 3M-1 (March 2001)

The Stratospheric Aerosol and Gas Experiment III (SAGE III) instrument will be flown on the Russian Meteor 3M-1 spacecraft to make long-term trend measurements of atmospheric aerosols, ozone, water vapor, and clouds from the middle troposphere through the stratosphere.

Web site: www-sage3.larc.nasa.gov/

QuikTOMS (March 2001)

The Total Ozone Mapping Spectrometer (TOMS) continues NASA's long-term mapping of the global distribution of the Earth's atmospheric ozone. In addition to ozone, TOMS measures sulfur dioxide released in volcanic eruptions.

Web site: quiktoms.gsfc.nasa.gov/

Aqua (No earlier than July 2001)

The second spacecraft in the EOS series, Aqua (formerly EOS PM) will fly in a polar, sun-synchronous orbit with an afternoon (approximately 1:30 p.m.) equatorial crossing time.

Aqua will carry two instruments that are also on Terra (CERES and MODIS), as well as three additional instruments. AMSR (Advanced Microwave Scanning Radiometer), a Japanese instrument, will measure water vapor, wind speed at the ocean surface, sea surface temperature, sea ice concentration, snow cover, and soil moisture and vegetation characteristics over land. The AIRS, AMSU-A, and HSB instruments (Atmospheric Infrared Sounder, Advanced Microwave Sounding Unit-A and Humidity Sounder for Brazil) will provide a set of measurements for the improvement of global modeling, numerical weather prediction, global energy and water cycles, and monitoring of climate variations and trends.

Web site: aqua.gsfc.nasa.gov/

ADEOS II (November 2001)

The Advanced Earth Observing Satellite II (ADEOS II), the successor to the Advanced Earth Observing Satellite mission, is a joint mission with the National Space Development Agency of Japan. The SeaWinds microwave radar will fly on this mission to collect all-weather measurements of surface wind speeds and directions over the global oceans.

Web site: yyy.tksc.nasda.go.jp/Home/projects/ADEOS-11/index_e.html

ICESat (December 2001)

The Ice, Cloud and land Elevation Satellite (ICESat) is a small satellite mission to fly the Geoscience Laser Altimeter System (GLAS) in a near-polar orbit. GLAS will accurately measure the elevations of the Earth's ice sheets, clouds, and land and answer questions about the growth or shrinkage of the Earth's polar ice sheets and future global sea level rise or fall. ICESAT also will measure the heights of clouds for studies of Earth's temperature balance.

Web site: icesat.gsfc.nasa.gov/

SORCE (July 2002)

The Solar Radiation and Climate Experiment (SORCE) will carry four instruments to provide long-term, accurate measurements of the sun's solar irradiance from the ultraviolet to near-infrared wavelengths as well as the sun's total solar irradiance. The instruments are: the Total Irradiance Monitor (TIM), the Solar Irradiance Monitor (SIM), the XUV Photometer System (XPS), and the SOLar STellar Irradiance Comparison Experiment (SOLSTICE).

Web site: lasp.colorado.edu/sorce/

EOS Aura (June 2003)

Aura (formerly EOS Chemistry-1) will focus on measurements of atmospheric trace gases and their transformations. This mission will provide the first global measurements of several important tropospheric chemicals.

The polar-orbiting spacecraft will carry four instruments. HIRDLS (High-Resolution Dynamics Limb Sounder), a joint instrument development with the United Kingdom, will measure levels of trace gases such as ozone and chlorofluorocarbons that contribute to the greenhouse effect. MLS (Microwave Limb Sounder) measures ozone and trace gases in the stratosphere and upper atmosphere as well as water. OMI (Ozone Monitoring Instrument) will provide

daily global measurements of the total column ozone. TES (Tropospheric Emission Spectrometer) will obtain a long-term understanding of variations in the quantity, distribution, and mixing of minor gases in the troposphere.

Web site: aura.gsfc.nasa.gov

International Space Station / SAGE III (November 2003)

The SAGE III mission on the Space Station will gather high-latitude, long-term measurements of the vertical structure of aerosols, ozone, water vapor, and other important trace gases in the upper troposphere and stratosphere.

Web site: www-sage3.larc.nasa.gov/

Other NASA Earth Science Missions

Earth Observing-1 (November 21, 2000)

One of the key responsibilities of NASA's Earth Science Enterprise is to ensure the continuity of future Landsat data. The New Millennium Program's first flight, Earth Observing-1 (EO-1), will validate technologies contributing to the reduction in cost of follow-on Landsat missions.

Web site: eo1.gsfc.nasa.gov/

Gravity Recovery and Climate Experiment (November 2001)

The second of the Pathfinder missions, GRACE employs a satellite-to-satellite microwave tracking system between two spacecraft to measure the Earth's gravity field and its time variability over five years. Such measurements are directly coupled to long-wavelength ocean circulation processes and to the transport of ocean heat to the Earth's poles.

Web site: essp.gsfc.nasa.gov/grace/index2.html

Vegetation Canopy Lidar (2002)

The first of the Pathfinder missions, VCL seeks to provide the first global inventory of the vertical structure of forests across Earth using a multibeam laser-ranging device. The mission will enable direct measurement of tree heights, forest canopy structure, and derived parameters such as global biomass with at least ten times better accuracy than existing assessments.

Web site: essp.gsfc.nasa.gov/vcl/index2.html

Triana (April 2002)

Triana is designed to obtain daily global images of ozone, aerosols, water vapor, cloud cover, cloud height, and vegetation information. These images will be from sunrise to sunset for every point on the globe at a spatial resolution of about 8 km.

Web site: jwocky.gsfc.nasa.gov/future/triana.html

CloudSat (March 2003)

CloudSat will measure the vertical structure of clouds from space with a millimeter-wave radar capable of seeing practically all clouds and precipitation, from very thin cirrus clouds to thunderstorms. The spacecraft will also carry a near-infrared spectrometer to measure the altitude and optical properties of clouds and aerosols. CloudSat will fly in formation with the PICASSO-CENA spacecraft and EOS Aqua.

Web site: cloudsat.atmos.colostate.edu/cloudsat.html

PICASSO-CENA (March 2003)

The Pathfinder Instruments for Cloud and Aerosol Spaceborne Observations – Climatologie Etendue des Nuages et des Aerosols (PICASSO-CENA) mission, is a joint mission lead by NASA's Langley Research Center and the Institut Pierre Simon Laplace, Paris. PICASSO-CENA flies in formation with EOS Aqua to provide global observations of aerosol and cloud properties, radiative fluxes, and atmospheric state. These data will enable new assessments of the radiative effects of aerosol and clouds that will greatly improve our ability to predict future climate change.

Web site: essp.gsfc.nasa.gov/picasso-cena/

EOS Global Change Researchers

Acronyms

ACRIMSAT	Active Cavity Radiometer Irradiance Monitoring Satellite
ADEOS	Advanced Earth Observing Satellite
AIRS	Atmospheric Infrared Sounder
AMSR	Advanced Microwave Scanning Radiometer
AMSU-A	Advanced Microwave Sounding Unit-A
ASTER	Advanced Spaceborne Thermal Emission and Reflection Radiometer
CERES	Clouds and the Earth's Radiant Energy System
Co-I	Co-Investigator
EO-1	Earth Observing-1
EOS	Earth Observing System
EOSDIS	Earth Observing System Data Information System
ESIP	Earth Science Information Partners
ETM+	Enhanced Thematic Mapper Plus
GLAS	Geoscience Laser Altimeter System
GRACE	Gravity Recovery and Climate Experiment
HIRDLS	High-Resolution Dynamics Limb Sounder
HSB	Humidity Sounder for Brazil
ICESat	Ice, Cloud and Land Elevation Satellite
IDS	Interdisciplinary Science Investigations
MISR	Multi-Angle Imaging Spectroradiometer
MLS	Microwave Limb Sounder
MODIS	Moderate-Resolution Imaging Spectroradiometer
MOPITT	Measurements of Pollution in the Troposphere
NSIDC	National Snow and Ice Data Center
PI	Principal Investigator
PICASSO-CENA	Pathfinder Instruments for Cloud and Aerosol Spaceborne Observations - Climatologie Etendue des Nuages et des Aerosols
ODUS	Ozone Dynamics Ultraviolet Spectrometer
SAGE	Stratospheric Aerosol and Gas Experiment
SeaWIFS	Sea-viewing Wide Field-of-view Sensor
SIM	Solar Irradiance Monitor
SOLSTICE	Solar Stellar Irradiance Comparison Experiment
SORCE	Solar Radiation and Climate Experiment
TES	Tropospheric Emission Spectrometer
TIM	Total Irradiance Monitor
TOMS	Total Ozone Mapping Spectrometer
TRMM	Tropical Rainfall Measuring Mission
USGCRP	U.S. Global Change Research Program
VCL	Vegetation Canopy Lidar

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Research expertise: solar radiation, radiative transfer, and
measurements

Policy expertise: instruments, aerosols, atmospheric physics

Ph.D.: combustion science and heat transfer

EOS role: Co-PI, Validation of EOS remote sensing systems

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Policy expertise: northern global change

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Research expertise: renewable energy systems design and
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Policy expertise: Saudi national energy policy

Ph.D.: electrical engineering

EOS role: radiometric product validation

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EOS role: IDS Co-I

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Policy expertise: past climate change

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Current appointment: Polar research board

EOS role: IDS Co-I

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Policy expertise: carbon cycle: climate change, climate
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Ph.D.: atmospheric sciences

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 EOS role: IDS Co-I

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 ice
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 EOS role: Advise NSIDC DAAC User Services on topics
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 and remote sensing; serve as NSIDC DAAC Mission Data
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 Policy expertise: remote sensing: vegetation, carbon cycle,
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 Policy expertise: water resources & quality
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 Current appointment: chair, ice core working group
 EOS role: IDS Co-I & RESAC PI
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 Policy expertise: snow and ice; remote sensing; climate
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 Policy expertise: aerosol radiative forcing
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 Policy expertise: global warming
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 remote sensing
 Policy expertise: air-sea interaction, oceanography, remote
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 Policy expertise: global climate change
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 and in-situ measurement of snow
 Policy expertise: snow and ice, hydrological cycle, remote
 sensing: data & images
 Ph.D.: geography
 EOS role: IDS PI

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 remote sensing data in hydrologic models
 Ph.D.: hydrology
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 committee on large-scale experiments
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 Policy expertise: terrestrial dynamics
 Ph.D.: geography
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 Research expertise: atmospheric radiation, Earth's radiation
 budget
 Policy expertise: climate change, global warming, remote
 sensing
 Ph.D.: atmospheric physics
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 Ph.D.: oceanography
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 Research expertise: tropical ocean-atmosphere
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 Policy expertise: El Niño, air-sea interaction,
 oceanography
 Ph.D.: oceanography
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 EOS role: SeaWinds instrument team
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 EOS role: Ice, Clouds, and Land Elevation Satellite, GLAS I-
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 Research expertise: global climate change, atmospheric radiation
 Policy expertise: global warming
 Ph.D.: physics
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 Policy expertise: atmospheric science, climate modeling, Earth's radiant energy system
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 EOS role: cloud validation
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 Research expertise: flood hydroclimatology, synoptic dendroclimatology
 Policy expertise: flood hazard policy issues
 Ph.D.: geosciences
 Current appointment: member National Academy of Sciences Committee on Geography, board on Earth sciences and resources

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 Policy expertise: global warming
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 Policy expertise: ozone
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 Policy expertise: natural hazards
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 Policy expertise: carbon cycle, carbon cycle: policy, land use: policy
 Ph.D.: ecology
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Policy expertise: atmospheric science, hydrological cycle, land surface
Ph.D.: hydrology and atmospheric sciences
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Research expertise: land cover change, remote sensing
Policy expertise: international environmental treaties, food security
Ph.D.: biological sciences, ecology
Current appointment: NASA's Earth System Science Pathfinder Project Scientist
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Policy expertise: changes in ozone
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Current appointment: convening lead author of chapter on modeling the chemical composition of the future atmosphere, Intergovernmental Panel on Climate Change special report on aviation and the global atmosphere
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 Ph.D.: environmental engineering
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 Policy expertise: hazards, land use change
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 Policy expertise: global climate change
 Ph.D.: astrophysics
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 Policy expertise: air quality, atmospheric chemistry, ozone
 Ph.D.: chemical engineering
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Policy expertise: aerosols, clouds
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Policy expertise: uncertainty in climate change assessments

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 Policy expertise: global trends in cloud cover
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 Policy expertise: implications of land use and climate change in the Great Plains
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 Research expertise: solar radiation, radiative transfer, and measurements
 Policy expertise: instruments, aerosols, atmospheric physics
 Ph.D.: applied mathematics
 Current appointment: editor, Optical Radiation News council, for optical radiation measurements
 EOS role: Co-PIs, validation of EOS remote sensing systems
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 Policy expertise: global warming
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Policy expertise: sea level change
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 EOS role: Jason-1 team
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 Policy expertise: oil spill risk analysis
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 EOS role: MODIS and MISR validation
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 Research expertise: measuring and modeling land surface processes
 Policy expertise: agriculture, biosphere, land cover and vegetation
 Ph.D.: soil science and atmospheric sciences
 EOS role: EOS validation on ASTER and MODIS
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 EOS role: MOPITT validation team member
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 Policy expertise: air-sea interaction, remote sensing: data & images, El Niño
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 Policy expertise: atmospheric chemistry, volcanology
 Ph.D.: volcanology, remote sensing
 EOS role: IDS Co-I

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 Policy expertise: climate change, remote sensing: data & images, snow and ice
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EOS role: global carbon cycle
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 Ph.D.: aquatic biogeochemistry
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 Research expertise: atmospheric chemistry, global change
 Policy expertise: ozone depletion, global warming
 Ph.D.: astronomy and astrophysics
 Current appointment: editor-in-chief, Geophysical Research Letters
 EOS role: IDS Co-I

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 Research expertise: ecophysiology of forest ecosystems and responses to climate
 Policy expertise: climate change, ecosystems, carbon cycle
 Ph.D.: forest micrometeorology, ecophysiology
 Current appointment: research scientist leading the CFS Integrative Climate Change Impacts Modeling program

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 Policy expertise: remote sensing of desertification
 Ph.D.: plant ecophysiology, biogeography
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 Policy expertise: remote sensing: data & images, aerosols, land use: natural hazards
 Masters: atmospheric sciences, remote sensing
 EOS role: IDS research
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 Ph.D.: aerospace engineering (remote sensing)
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 EOS role: EOS Terra validation scientist, MODLAND validation coordinator, ORNL DAAC User Working Group Member
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 Research expertise: thermal analysis of energy fluxes, particularly in urban areas, geostatistics to multiscaled remote sensing data
 Policy expertise: effect of urban areas on air quality and meteorology
 Ph.D.: geography
 Current appointment: senior research scientist
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 Policy expertise: global warming

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 Current appointment: chair, INDOEX international steering committee
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 Research expertise: trace gases, aerosols and clouds; climate change
 Policy expertise: causes of radiative forcing
 Ph.D.: atmospheric sciences
 Current appointment: convening lead author, radiative forcing chapter of the Intergovernmental Panel on Climate Change 2001
 EOS role: SAGE III team, IDS Co-I
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 Ph.D.: atmospheric sciences
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 Policy expertise: carbon cycle, biosphere, land cover and vegetation
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 Policy expertise: ecosystems, land cover & vegetation, land surface, remote sensing, spacecraft
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EOS role: Earth Systems Enterprise PI

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Research expertise: atmospheric climate modeling and diagnostics
Policy expertise: global warming
Ph.D.: atmospheric sciences
Current appointment: National Academy of Science/
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EOS role: IDS PI

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Policy expertise: global warming
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EOS role: ASTER team

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 Policy expertise: agriculture, climate change, El Niño
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Policy expertise: aerosols, atmospheric physics, Earth's radiant energy system
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 Policy expertise: applications and commercialization of spaceborne technologies
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Policy expertise: land surface, hydrology
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Policy expertise: stratospheric ozone depletion
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 Policy expertise: impact of global change and variability on water resources
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 Policy expertise: global change
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 Policy expertise: atmospheric science, Earth's radiant energy system, remote sensing: data and images
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 Research expertise: oceanography, education
 Policy expertise: education and physical oceanography
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 EOS role: Jason and TOPEX/Poseidon

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Ph.D.: atmospheric science

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 Policy expertise: air-sea interaction, climate modeling,
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 Policy expertise: global change, ozone, remote sensing: data
 & images
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Atmospheric Physics
Atmospheric Radiation
Atmospheric Sciences
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El Niño
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Lightning
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Natural Hazards: Policy
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Media Resources

World Wide Web

EOS Project Science Office
<http://eos.nasa.gov/>

The EOS Project Science Office at Goddard Space Flight Center maintains an active web site that is a good source for the latest news and general background information on the entire EOS program. The site includes a regularly updated list of EOS spacecraft launch dates, instruments, press releases, and a listing of EOS personnel. In addition, the site provides extensive links to EOS-related Web sites, image archives, documents, and educational materials.

The "For Scientists" section contains links and information about spacecraft missions, the interdisciplinary science (IDS) investigations, airborne campaigns, and related field experiments. It also contains EOS publications such as the "Earth Observer" newsletter, EOS Science Plan and Reference Handbook, spacecraft and instrument brochures, and an EOS glossary.

The "Earth Images" section provides over 35 links to Earth science images including an online search engine for NASA image archives, El Niño visualizations, weather satellite imagery, the SeaWiFS Ocean Color Gallery, and image archives from the Jet Propulsion Laboratory, Goddard Space Flight Center, and other NASA centers.

Destination Earth
<http://www.earth.nasa.gov/>

The web site of NASA's Earth Science Enterprise in Washington, D. C., contains information about the Agency's entire Earth science program. A section on "Science of the Earth System" describes the Agency's major research themes: atmospheric chemistry, hydrological and energy

cycle, land cover and land use, ozone, natural hazards and the solid Earth, and climate variability and change. The "Missions" section provides links to all major spacecraft missions and instruments as well as the Earth Probes program, the New Millennium missions, and commercial remote sensing.

Earth Observatory
<http://earthobservatory.nasa.gov/>

The Earth Observatory presents articles, news, images, and animations that illustrate the complexities of Earth system science as well as NASA's use of satellites and remote-sensing data. The site features actual remote-sensing data of key phenomena of change on global and regional scales. Updated weekly, the Earth Observatory is an information resource for educators, interested lay persons, and media writers.

The "News" section of the site contains the latest NASA press releases, images, and news summaries for journalists. The "Data & Images" section allows visitors to manipulate numerous global-scale data sets. "References" contains NASA Fact Sheets, a glossary, and other background materials. "Missions" enables visitors to track NASA satellites that are in orbit.

Visible Earth
<http://visibleearth.nasa.gov/>

The goal of Visible Earth is to provide a consistently updated central catalog of Earth science-related NASA visualizations and images. These images will be useful to the interested public as well as the media, scientists, and educators.

NASA TV: Live Interviews and Real-Time Coverage

NASA Television (NTV) is a resource designed to provide real-time coverage of Agency activities and missions as well as providing resource video to the news media and educational programming to teachers, students and the general public.

Over 50 NASA experts are available at or near NASA centers around the country to participate via NASA satellite in live interviews and/or video feeds. These experts are recommended by the Public Information Office on the basis of their TV experience, willingness to interact with the broadcast news media, scientific credentials, and ability to present complex science topics for general public audiences.

Experts are available on these subjects:

Air quality (particulates, pollution, smog)
 Airplane hazards (volcanic ash, wind shear, etc.)
 Aurora
 Clouds
 Comets, impact craters
 Earthquakes
 Eclipses (Sun & Moon)
 El Niño
 Fires
 Floods
 Global climate change, greenhouse effect
 Global Positioning System Search and Rescue Program
 Greenhouse gases in the atmosphere
 Hurricanes
 Leaves and foliage
 Lightning
 Ocean life, phytoplankton, Red Tide
 Ozone hole
 Season change
 Snow and ice
 Tornadoes
 Tropical storms, rainfall, typhoons
 Urbanization, "heat islands"
 Volcanoes

To request interviews, contact the following NASA Media Services staff.

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Goddard Space Flight Center, Greenbelt, Md. (All topics)

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(Especially atmosphere, clouds, ozone topics)
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Selected Programming includes the "NTV Video file," an advisory to the news media describing the most current audio and video resource material of Agency events. It airs weekdays at noon (EST or EDT) with replays at 3 p.m., 6 p.m. and 9 p.m. "Earth Views" from the Space Shuttle are available at the conclusion of each Video File package until the end of the hour and most weekends.

NTV is broadcast on GE-2, transponder 9C, C-Band, located at 85 degrees West longitude. The frequency is 3880.0 MHz. Polarization is vertical and audio is monaural at 6.8 MHz. Visit the NTV Web site for more information.

<http://www.nasa.gov/ntv/>

Media Alert Listservs

The NASA Daily News Summary is issued each business day at approximately 2:00 p.m. Eastern time. Members of the media who wish to subscribe to this list can send an e-mail message to: Brian.Dunbar@hq.nasa.gov.

Video File "Heads Up" messages announce our most current line-up of stories on NASA's daily Video File feed as we try to provide you the best, most current service possible. Members of the media who wish to subscribe to this list can send an e-mail message to: Brian.Dunbar@hq.nasa.gov.

The Earth Science Tip List is intended to notify television producers and weather broadcasters interested in NASA's Earth Science imagery and occasional story ideas. On average, you will receive about 2-4 tips per month. Members of the media who wish to subscribe to this list can send an e-mail message to: Wade.E.Sisler.1@gsfc.nasa.gov.

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