

THE WHITE HOUSE

Office of the Press Secretary

For Immediate Release

June 5, 1992

STATEMENT BY THE PRESS SECRETARY

President Bush last week approved a National Space Policy Directive establishing a focussed national effort to improve the world's ability to detect and document changes in the Earth, especially the global climate.

This policy directive, which was developed by the National Space Council chaired by Vice President Quayle:

- Establishes a comprehensive, multi-agency effort to collect, analyze, and archive space-based observations on global change. This Space-based Global Change Observation System (S-GCOS) will be led by NASA with participation from other government agencies.
- Directs that NASA's Earth Observing System (EOS) be developed using small and intermediate sized satellites. Through the use of advanced technology and reduced design complexity, these satellites can be acquired more quickly and at less cost than previously planned. This will allow the timetable for obtaining critical data on global change to be accelerated.
- Assigns global change observation functions, including the development of technology, the collection of data, and the archiving of information, to NASA and the Departments of Energy, Commerce (NOAA), Interior and Defense.
- Encourages international cooperation in global change observation from space and directs the Department of State to provide support to the implementing Agencies.

This directive augments previous Presidential directives and recognizes the recommendations of the Earth Observing System Engineering Review Panel.

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Attachment

THE WHITE HOUSE
WASHINGTON

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May 28, 1992

NATIONAL SPACE POLICY DIRECTIVE 7

MEMORANDUM FOR THE VICE PRESIDENT
THE SECRETARY OF STATE
THE SECRETARY OF THE TREASURY
THE SECRETARY OF DEFENSE
THE ATTORNEY GENERAL
THE SECRETARY OF INTERIOR
THE SECRETARY OF COMMERCE
THE SECRETARY OF TRANSPORTATION
THE SECRETARY OF ENERGY
CHIEF OF STAFF TO THE PRESIDENT
DIRECTOR OF MANAGEMENT AND BUDGET
THE ASSISTANT TO THE PRESIDENT FOR NATIONAL
SECURITY AFFAIRS
THE ASSISTANT TO THE PRESIDENT FOR SCIENCE AND
TECHNOLOGY
THE DIRECTOR OF CENTRAL INTELLIGENCE
CHAIRMAN OF THE JOINT CHIEFS OF STAFF
ADMINISTRATOR OF THE NATIONAL AERONAUTICS
AND SPACE ADMINISTRATION



SUBJECT: Space-based Global Change Observation

I. Introduction

The U.S. Global Change Research Program (USGCRP), is a key component of the nation's overall approach to global stewardship and is one of the nation's highest priority science programs. This program's goal is to provide a sound scientific basis for developing national and international policy relating to natural and human-induced changes in the Earth system. The ultimate success of the USGCRP depends upon an integrated set of ground- and space-based observation and research programs. The United States is planning and implementing a series of satellite missions that include NASA's Mission to Planet Earth, related environmental satellites, and activities of other agencies to provide these global observations for the next several decades. For the purposes of this document, these systems are collectively referred to as the Space-based Global Change Observation System (S-GCOS).

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b. Interagency Coordination

Space-based Global Change Observation System activities are conducted in the context of the USGCRP. The Federal Coordinating Council on Science, Engineering, and Technology (FCCSET), through its Committee on Earth and Environmental Sciences (CEES), is responsible for developing and coordinating the USGCRP, and for the activities and requirements of the USGCRP and, therefore, for the Space-based Global Change Observation System. All S-GCOS agencies shall participate with other USGCRP agencies and the CEES in the development and coordination of the Space-based Global Change Observation System Program Plan. The provision, management, and exchange of data will be a key element of the USGCRP.

The CEES will coordinate the interagency development of the Global Change Data and Information System (GCDIS) which integrates appropriate observations, regardless of platform basing mode or orientation of data (land, oceanographic, atmospheric, or space). All agencies involved with S-GCOS will participate with other USGCRP agencies in planning for the GCDIS, with a goal of maximizing the system's interoperability. Data sets intended for the GCDIS shall be responsive to the requirements of, and be accessible to, global change scientists and U.S. Government authorized research and operational users.

c. National Aeronautics and Space Administration (NASA)

The National Aeronautics and Space Administration is the lead agency for planning Space-based Global Change Observation System activities, and is responsible for developing and operating the NASA component of the S-GCOS. This component shall be developed to provide maximum program flexibility within budget constraints. As part of the USGCRP, NASA shall:

1. Lead the development and preparation of a coordinated interagency Space-based Global Change Observation System Program Plan, to be delivered to the National Space Council (NSpC), National Security Council (NSC), the Office of Science and Technology Policy (OSTP), and the Office of Management and Budget (OMB) by the CEES through FCCSET. This plan will guide agencies' S-GCOS activities.

2. Continue with the Mission to Planet Earth by conducting the ongoing development, operation, and scientific use of instruments and satellites designed to observe and monitor processes that govern key aspects of global environmental change.

3. As part of the Mission to Planet Earth, develop the Earth Observing System (EOS), comprised of intermediate and small sized satellites as recommended by the EOS Engineering Review Panel.

4. Plan and develop, in an incremental and evolutionary manner, the EOS Data and Information System (EOSDIS), which is the NASA part of the data and information system for S-GCOS. This data and information system shall be compatible with other parts of the USGCRP Global Change Data and Information System, and able to incorporate, as appropriate, currently available Earth observations, such as those from Landsat, and provide an active archive for S-GCOS system data sets. Prototype versions of this system, using existing Earth observations, shall be constructed to demonstrate system utility and functions.

5. Develop new instruments and space systems for global change monitoring, utilizing technologies from NASA and other S-GCOS agencies. A plan for related NASA research and development activity shall be integral to the interagency coordinated Space-based Global Change Observation System Program Plan.

d. Department of Energy (DOE)

The Department of Energy shall participate with NASA and the other appropriate S-GCOS agencies in developing satellite systems to maintain data continuity for the understanding of the Earth's radiation budget, consistent with the Space-based Global Change Observation System Program Plan, with an initial capability by 1995.

The DOE shall participate with other S-GCOS agencies in conducting research and development for advanced technologies that can offer promise of increased performance and/or lower cost for advanced long-term global change monitoring systems. A plan for related DOE research and development activity shall be integral to the interagency coordinated Space-based Global Change Observation System Program Plan.

e. Department of Defense (DoD)

The participation of the Department of Defense in the Space-based Global Change Observation System shall consist of related activities derived from current and planned DoD programs. DoD, in cooperation with the Director of Central Intelligence, as appropriate, will identify those technologies and programs that support the S-GCOS and shall seek to make appropriate technology and data from those programs available. DoD may also seek to identify and take advantage of S-GCOS programs and capabilities, as appropriate.

f. Department of Commerce (DOC)

The Department of Commerce, through the National Oceanic and Atmospheric Administration (NOAA), shall participate in the collection, processing, archiving, retrieval, and use of oceanic- and atmospheric-oriented data and shall, consistent with the Space-based Global Change Observation System Program Plan, provide for the permanent archiving, management, access, and distribution of oceanic and atmospheric Earth science data sets for global change research, including data sets obtained by the S-GCOS. DOC/NOAA shall work with other appropriate agencies to transition, as appropriate, systems, technology, and/or sensors developed for use in the S-GCOS to operational use. The Space-based Global Change Observation System Program Plan shall include a discussion of the criteria related to the desirability and economic feasibility of transitioning specific S-GCOS assets to operational use.

g. Department of the Interior

The Department of the Interior shall assist in the collection, processing, archiving, retrieval, and use of land-oriented data and shall, consistent with the Space-based Global Change Observation System Program Plan, provide for the permanent archiving, management, access, and distribution of land-oriented Earth science data sets for global change research, including data sets obtained by S-GCOS.

h. Department of State

The Department of State has a role in Space-based Global Change Observation with respect to international agreements, significant activities or arrangements with foreign countries, international organizations, or commissions where the United States and one or more foreign countries are members. Prior to discussions between participating agencies and foreign entities that could reasonably be expected to lead to such agreements, activities, or arrangements, the Department of State shall be consulted and, as appropriate, shall coordinate interagency review of the proposed U.S. position to ensure consistency with U.S. foreign policy, national security, and economic interests, and satisfaction of applicable legal requirements. This shall not affect the ability of participating agencies to explore, in accordance with established procedures, scientific, technical, and programmatic aspects of proposed international cooperation that do not involve commitments or foreign policy concerns.

IV. Reporting Requirements

a. NASA shall lead the preparation of a coordinated and integrated interagency Space-based Global Change Observation System Program Plan that shall be forwarded by the CEES through FCCSET to the NSpC, NSC, OSTP, and OMB not later than July 1, 1992. This plan shall address the S-GCOS architecture, existing and planned S-GCOS satellite systems, technology development activities, sensor suites, launch systems, supporting agency contributions and the data and information systems.

b. Each March, FCCSET/CEES shall prepare and forward a Space-based Global Change Observation System Program Report on the progress and accomplishments of the S-GCOS to the NSpC, NSC, OSTP, and OMB. The Space-based Global Change Observation System Program Plan will meet this requirement for 1992.

