

(1) Global measurements, establishing worldwide observations necessary to understand the physical, chemical, and biological processes responsible for changes in the Earth system on all relevant spatial and time scales.

(2) Documentation of global change, including the development of mechanisms for recording changes that will actually occur in the Earth system over the coming decades.

(3) Studies of earlier changes in the Earth system, using evidence from the geological and fossil record.

(4) Predictions, using quantitative models of the Earth system to identify and simulate global environmental processes and trends, and the regional implications of such processes and trends.

(5) Focused research initiatives to understand the nature of and interaction among physical, chemical, biological, and social processes related to global change.

(d) Information management

The Plan shall provide recommendations for collaboration within the Federal Government and among nations to—

(1) establish, develop, and maintain information bases, including necessary management systems which will promote consistent, efficient, and compatible transfer and use of data;

(2) create globally accessible formats for data collected by various international sources; and

(3) combine and interpret data from various sources to produce information readily usable by policymakers attempting to formulate effective strategies for preventing, mitigating, and adapting to the effects of global change.

(e) National Research Council evaluation

The Chairman of the Council shall enter into an agreement with the National Research Council under which the National Research Council shall—

(1) evaluate the scientific content of the Plan; and

(2) provide information and advice obtained from United States and international sources, and recommended priorities for future global change research.

(f) Public participation

In developing the Plan, the Committee shall consult with academic, State, industry, and environmental groups and representatives. Not later than 90 days before the Chairman of the Council submits the Plan, or any revision thereof, to the Congress, a summary of the proposed Plan shall be published in the Federal Register for a public comment period of not less than 60 days.

(Pub. L. 101-606, title I, §104, Nov. 16, 1990, 104 Stat. 3099.)

§ 2935. Budget coordination

(a) Committee guidance

The Committee shall each year provide general guidance to each Federal agency or department participating in the Program with respect to the preparation of requests for appropriations for activities related to the Program.

(b) Submission of reports with agency appropriations requests

(1) Working in conjunction with the Committee, each Federal agency or department involved in global change research shall include with its annual request for appropriations submitted to the President under section 1108 of title 31 a report which—

(A) identifies each element of the proposed global change research activities of the agency or department;

(B) specifies whether each element (i) contributes directly to the Program or (ii) contributes indirectly but in important ways to the Program; and

(C) states the portion of its request for appropriations allocated to each element of the Program.

(2) Each agency or department that submits a report under paragraph (1) shall submit such report simultaneously to the Committee.

(c) Consideration in President's budget

(1) The President shall, in a timely fashion, provide the Committee with an opportunity to review and comment on the budget estimate of each agency and department involved in global change research in the context of the Plan.

(2) The President shall identify in each annual budget submitted to the Congress under section 1105 of title 31 those items in each agency's or department's annual budget which are elements of the Program.

(Pub. L. 101-606, title I, §105, Nov. 16, 1990, 104 Stat. 3100.)

§ 2936. Scientific assessment

On a periodic basis (not less frequently than every 4 years), the Council, through the Committee, shall prepare and submit to the President and the Congress an assessment which—

(1) integrates, evaluates, and interprets the findings of the Program and discusses the scientific uncertainties associated with such findings;

(2) analyzes the effects of global change on the natural environment, agriculture, energy production and use, land and water resources, transportation, human health and welfare, human social systems, and biological diversity; and

(3) analyzes current trends in global change, both human-induced¹ and natural, and projects major trends for the subsequent 25 to 100 years.

(Pub. L. 101-606, title I, §106, Nov. 16, 1990, 104 Stat. 3101.)

§ 2937. Omitted

CODIFICATION

Section, Pub. L. 101-606, title I, §107, Nov. 16, 1990, 104 Stat. 3101, which required the Chairman of the Federal Coordinating Council on Science, Engineering, and Technology to submit an annual report to Congress on the activities conducted by the Committee on Earth and Environmental Sciences pursuant to this subchapter, terminated effective May 15, 2000, pursuant to

¹ So in original. Probably should be "human-induced".

section 3003 of Pub. L. 104-66, as amended, set out as a note under section 1113 of Title 31, Money and Finance. See, also, page 157 of House Document No. 103-7.

§ 2938. Relation to other authorities

(a) National Climate Program research activities

The President, the Chairman of the Council, and the Secretary of Commerce shall ensure that relevant research activities of the National Climate Program, established by the National Climate Program Act (15 U.S.C. 2901 et seq.), are considered in developing national global change research efforts.

(b) Availability of research findings

The President, the Chairman of the Council, and the heads of the agencies and departments represented on the Committee, shall ensure that the research findings of the Committee, and of Federal agencies and departments, are available to—

- (1) the Environmental Protection Agency for use in the formulation of a coordinated national policy on global climate change pursuant to section 1103 of the Global Climate Protection Act of 1987 (15 U.S.C. 2901 note); and
- (2) all Federal agencies and departments for use in the formulation of coordinated national policies for responding to human-induced and natural processes of global change pursuant to other statutory responsibilities and obligations.

(c) Effect on Federal response actions

Nothing in this subchapter shall be construed, interpreted, or applied to preclude or delay the planning or implementation of any Federal action designed, in whole or in part, to address the threats of stratospheric ozone depletion or global climate change.

(Pub. L. 101-606, title I, § 108, Nov. 16, 1990, 104 Stat. 3101.)

REFERENCES IN TEXT

The National Climate Program Act, referred to in subsec. (a), is Pub. L. 95-367, Sept. 17, 1978, 92 Stat. 601, as amended, which is classified principally to chapter 56 (§ 2901 et seq.) of this title. For complete classification of this Act to the Code, see Short Title note set out under section 2901 of this title and Tables.

SUBCHAPTER II—INTERNATIONAL CO-OPERATION IN GLOBAL CHANGE RESEARCH

§ 2951. Findings and purposes

(a) Findings

The Congress makes the following findings:

- (1) Pooling of international resources and scientific capabilities will be essential to a successful international global change program.
- (2) While international scientific planning is already underway, there is currently no comprehensive intergovernmental mechanism for planning, coordinating, or implementing research to understand global change and to mitigate possible adverse effects.
- (3) An international global change research program will be important in building future consensus on methods for reducing global environmental degradation.

(4) The United States, as a world leader in environmental and Earth sciences, should help provide leadership in developing and implementing an international global change research program.

(b) Purposes

The purposes of this subchapter are to—

- (1) promote international, intergovernmental cooperation on global change research;
- (2) involve scientists and policymakers from developing nations in such cooperative global change research programs; and
- (3) promote international efforts to provide technical and other assistance to developing nations which will facilitate improvements in their domestic standard of living while minimizing damage to the global or regional environment.

(Pub. L. 101-606, title II, § 202, Nov. 16, 1990, 104 Stat. 3102.)

§ 2952. International discussions

(a) Global change research

The President should direct the Secretary of State, in cooperation with the Committee, to initiate discussions with other nations leading toward international protocols and other agreements to coordinate global change research activities. Such discussions should include the following issues:

- (1) Allocation of costs in global change research programs, especially with respect to major capital projects.
- (2) Coordination of global change research plans with those developed by international organizations such as the International Council on Scientific Unions, the World Meteorological Organization, and the United Nations Environment Program.
- (3) Establishment of global change research centers and training programs for scientists, especially those from developing nations.
- (4) Development of innovative methods for management of international global change research, including—

- (A) use of new or existing intergovernmental organizations for the coordination or funding of global change research; and
- (B) creation of a limited foundation for global change research.

(5) The prompt establishment of international projects to—

- (A) create globally accessible formats for data collected by various international sources; and
- (B) combine and interpret data from various sources to produce information readily usable by policymakers attempting to formulate effective strategies for preventing, mitigating, and adapting to possible adverse effects of global change.

(6) Establishment of international offices to disseminate information useful in identifying, preventing, mitigating, or adapting to the possible effects of global change.

(b) Energy research

The President should direct the Secretary of State (in cooperation with the Secretary of En-