

# ACRONYMS

*from the*

## **Strategic Plan for the Climate Change Science Program**

By the agencies and staff of the  
US Climate Change Science Program

**Review draft dated 11 November 2002**

### **Contents**

- Letter from James R. Mahoney, Ph.D., Assistant Secretary of Commerce for Oceans and Atmosphere, and Director, U.S. Climate Change Science Program
- Instructions For Submission of Strategic Plan Review Comments
- Excerpts from the Strategic Plan:
  - Foreword
  - Table of Contents
  - **Acronyms**

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11 November 2002

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Dear Colleague,

The Climate Change Science Program will hold the U.S. Climate Change Science Program Planning Workshop for Scientists and Stakeholders at the Marriott Wardman Park Hotel in Washington, D.C., from 3-5 December 2002. The purpose of the Workshop is to provide a comprehensive review of the discussion draft of the Strategic Plan for U.S. climate change and global change research. This Workshop will offer extensive opportunities for the scientific and stakeholder communities to provide comment and input to the Climate Change Science Program Strategic Plan. When finalized by April 2003, the Strategic Plan will provide the principal guidance for U.S. climate change and global change research during the next several years, subject to revisions as appropriate to respond to newly developed information and decision support tools.

We are writing to request your comments on the discussion draft of the Climate Change Science Program Strategic Plan. Comments on all elements of the plan from all communities are essential in order to improve the plan and identify gaps. In your review, we ask you to provide a perspective on the content, implications, and challenges outlined in the plan as well as suggestions for any alternate approaches you wish to have considered, and the types of climate and global change information required by policy makers and resource managers. We also ask that you comment on any inconsistencies within or across chapters, and omissions of important topics. For any shortcomings that you note in the draft, please propose specific remedies. To participate in the review it is not necessary that you review the entire plan.

We ask that comments be submitted by E-mail to <[comments@climatescience.gov](mailto:comments@climatescience.gov)>. All comments submitted by 13 January 2003 will be posted on the <<http://www.climatescience.gov>> website for public review. While we are unable to promised detailed responses to individual comments, we confirm that all submitted comments will be given consideration during the development of the final version of the Strategic Plan.

Attached to this letter are instructions and format guidelines for submitting review comments. Following the instructions will ensure that your comments are properly processed and given appropriate consideration. If you wish to distribute copies of the plan to colleagues to participate in the review, please provide them with a copy of this letter as well as the attached instructions and format guidelines. We have posted the plan on the workshop website at <<http://www.climatescience.gov>>. PDF files for individual chapters of the plan can be downloaded from this site. If you have any questions, please contact: Sandy MacCracken at 1-202-419-3483 (voice), 1-202-223-3065 (fax), or via the address in the footer below.

We appreciate your contribution of time and expertise to this review, and look forward to your response.

Sincerely,

James R. Mahoney, Ph.D.  
Assistant Secretary of Commerce for Oceans and Atmosphere, and  
Director, U.S. Climate Change Science Program

## Instructions For Submission of Strategic Plan Review Comments

Thank you for participating in the review process. Please follow the instructions for preparing and submitting your review. Using the format guidance described below will facilitate our processing of reviewer comments and assure that your comments are given appropriate consideration. An example of the format is also provided. Comments are due by **13 January, 2003**.

- Select the chapter(s) or sections of chapters which you wish to review. It is not necessary that you review the entire plan. In your comments, please consider the following issues:
  - **Overview:** overview on the content, implications, and challenges outlined in the plan;
  - **Agreement/Disagreement:** areas of agreement and disagreement, as appropriate;
  - **Suggestions :** suggestions for alternative approaches, if appropriate;
  - **Inconsistencies:** inconsistencies within or across chapters;
  - **Omissions :** omissions of important topics;
  - **Remedies:** specific remedies for identified shortcomings of the draft plan;
  - **Stakeholder climate information:** type of climate and global change information required by representative groups;
  - **Other:** other comments not covered above.
- Please do not comment on grammar, spelling, or punctuation. Professional copy editing will correct deficiencies in these areas for the final draft.
- Use the format guidance that follows for organizing your comments.
- Submit your comments by email to <comments@climatescience.gov> by 13 January, 2003.

### Format Guidance for Comments

Please provide background information about yourself on the first page of your comments: your name(s), organization(s), area of expertise(s), mailing address(es), telephone and fax numbers, and email address(es).

- Overview comments on the chapter should follow your background information and should be numbered.
- Comments that are specific to particular pages, paragraphs or lines of the chapter should follow your overview comments and should identify the page and line numbers to which they apply.
- Comments that refer to a table or figure should identify the table or figure number. In the case of tables, please also identify the row and column to which the comment refers.
- Order your comments sequentially by page and line number.
- At the end of each comment, please insert your name and affiliation.

## **Format Example for Comments**

### **I. Background Information**

**Name(s):** John Doe

**Organization(s):** University College

**Mailing Address(es):** 101 1<sup>st</sup> Street, New York, New York, 10001

**Phone (s):** 800-555-5555

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**E-mail(s):** John.Doe@univ.edu

**Area of Expertise:** Atmospheric Composition

### **II. Overview Comments on Chapter 5: Atmospheric Composition**

**First Overview Comment:** (Comment)

**Reviewer's name, affiliation:** John Doe, University College

**Second Overview Comment:** (Comment)

**Reviewer's name, affiliation:** John Doe, University College

### **III. Specific Comments on Chapter 5: Atmospheric Composition**

Page 57, Line 5: (Comment)

John Doe, University College

Page 58, Line 32 - Page 59, Line 5: (Comment)

John Doe, University College

Table 1-4, Row 3, Column 6: (Comment)

John Doe, University College

Please send comments by email to <comments@climatescience.gov>

## Foreword

In February 2002 President George W. Bush announced the formation of a new management structure, the Climate Change Science Program (CCSP), to coordinate and direct the US research efforts in the areas of climate and global change. These research efforts include the US Global Change Research Program (USGCRP) authorized by the Global Change Research Act of 1990, and the Climate Change Research Initiative (CCRI) launched by the President in June 2001 to reduce significant uncertainties in climate science, improve global climate observing systems, and develop resources to support policymaking and resource management.

The President's Climate Change Research Initiative was launched to provide a distinct focus to the 13-year old Global Change Research Program. The CCRI focus is defined by a group of uncertainties about the global climate system that have been identified by policymakers and analyzed by the National Research Council in a 2001 report requested by the Administration.

The Climate Change Science Program aims to balance the near-term (2- to 4-year) focus of the CCRI with the breadth of the USGCRP, pursuing accelerated development of answers to the scientific aspects of key climate policy issues while continuing to seek advances in the knowledge of the physical, biological and chemical processes that influence the Earth system.

This *discussion draft* strategic plan has been prepared by the thirteen federal agencies participating in the CCSP, with input from a large number of scientific steering groups and coordination by the CCSP staff under the leadership of Dr. Richard H. Moss, to provide a vehicle to facilitate comments and suggestions by the scientific and stakeholder communities interested in climate and global change issues.

We welcome comments on this draft plan by all interested persons. Comments may be provided during the US Climate Change Science Program Planning Workshop for Scientists and Stakeholders being held in Washington, DC on December 3 – 5, 2002, and during a subsequent public comment period extending to January 13, 2003. Information about the Workshop and the written comment opportunities is available on the web site [www.climatescience.gov](http://www.climatescience.gov). A specially formed committee of the National Research Council is also reviewing this draft plan, and will provide its analysis of the plan, the workshop and the written comments received after the workshop. A final version of the strategic plan, setting a path for the next few years of research under the CCSP, will be published by April 2003. We appreciate your assistance with this important process.

James R. Mahoney, Ph.D.  
Assistant Secretary of Commerce for Oceans and Atmosphere, and  
Director, Climate Change Science Program

# **Table of Contents of the Strategic Plan for the Climate Change Science Program**

Chapter 1. Introduction

## **Part I. The CCRI**

- Overview
- Chapter 2. Research Focused on Key Climate Change Uncertainties
- Chapter 3. Climate Quality Observations, Monitoring, and Data Management
- Chapter 4. Decision Support Resources

## **Part II. The USGCRP**

- Overview
- Chapter 5. Atmospheric Composition
- Chapter 6. Climate Variability and Change
- Chapter 7. Water Cycle
- Chapter 8. Land Use/Land Cover Change
- Chapter 9. Carbon Cycle
- Chapter 10. Ecosystems
- Chapter 11. Human Contributions and Responses to Environmental Change
- Chapter 12. Grand Challenges in Modeling, Observations, and Information Systems

## **Part III. Communication, Cooperation, and Management**

- Chapter 13. Reporting and Outreach
- Chapter 14. International Research and Cooperation
- Chapter 15. Program Management and Review

Acronyms

Authors and Contributors

## DRAFT

### Acronyms

- 1  
2
- 3 **ADEOS.** Advanced Earth Observing Satellite
- 4 **AQRS.** Air Quality Research Subcommittee of the Committee on Environment and Natural  
5 Resources. The CENR is one of the 9 committees organized under the National Science and  
6 Technology Council (NSTC).
- 7 **AmeriFlux.** American network of sites measuring fluxes of carbon and water vapor fluxes  
8 between terrestrial ecosystems and the atmosphere.
- 9 **AMSR.** Advanced Microwave Sounding Radiometer.
- 10 **AO.** Arctic Oscillation.
- 11 **AOSB.** Arctic Ocean Sciences Board.
- 12 **APN.** Asia-Pacific Network for Global Change Research
- 13 **BAHC.** Biospheric Aspects of the Hydrological Cycle project.
- 14 **CCRI.** Climate Change Research Initiative.
- 15 **CCSM.** Community Climate System Model.
- 16 **CCSP.** Climate Change Science Program.
- 17 **CEOS.** Committee on Earth Observation Satellites.
- 18 **CGIAR.** Consultative Group on International Agricultural Research.
- 19 **CH<sub>4</sub>.** Methane.
- 20 **CLiC.** Climate and Cryosphere project of the World Climate Research Programme.
- 21 **CLIVAR.** Climate Variability and Predictability.
- 22 **COLA.** Center for Ocean-Land-Atmosphere Studies.
- 23 **CO<sub>2</sub>.** Carbon dioxide.
- 24 **CPT.** Climate Process Teams.
- 25 **DPC.** Domestic Policy Council.
- 26 **ENSO.** El Niño-Southern Oscillation.
- 27 **EOS.** NASA's Earth Observing System.

## DRAFT

- 1 **ESE.** NASA's Earth Science Enterprise.
- 2 **FAO.** United Nations Food and Agriculture Organization.
- 3 **G3OS.** Combination of three observing systems:
  - 4 1. Global Climate Observing System (GCOS)
  - 5 2. Global Ocean Observing System (GOOS)
  - 6 3. Global Terrestrial Observing System (GTOS).
- 7 **GAW.** Global Atmosphere Watch.
- 8 **GCOS.** Global Climate Observing System.
- 9 **GCRIO.** Global Change Research Information Office.
- 10 **GCTE.** Global Climate and Terrestrial Ecosystems.
- 11 **GECAFS.** Global Environmental Change and Food Systems project.
- 12 **GEF.** Global Environmental Facility.
- 13 **GEWEX.** Global Energy and Water Cycle Experiment.
- 14 **GFDL.** Geophysical Fluid Dynamics Laboratory.
- 15 **GIS.** Geographic Information System.
- 16 **GISS.** Goddard Institute for Space Studies.
- 17 **GOFC-GOLD.** Global Observation for Forest and Land Cover Dynamics program.
- 18 **GOOS.** Global Ocean Observing System.
- 19 **GPS.** Global Positioning System.
- 20 **GRACE.** Gravity Recovery and Climate Experiment.
- 21 **GSN.** Global Climate Observing System (GCOS) Surface Network.
- 22 **GTN-P.** Global Terrestrial Network for Permafrost.
- 23 **GTOS.** Global Terrestrial Observing System.
- 24 **GUAN.** GCOS (Global Climate Observing System) Upper-Air Network.
- 25 **HELP.** Hydrology for Environment, Life and Policy (United Nations Educational, Scientific  
26 and Cultural Organization).



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- 1 **HSB.** Humidity Sounder of Brazil
- 2 **IAI.** Inter-American Institute for Global Change Research.
- 3 **IASC.** International Arctic Sciences Committee.
- 4 **ICSU.** International Council for Science .
- 5 **IGBP.** International Geosphere-Biosphere Programme.
- 6 **IGAC:** International Global Atmospheric Chemistry, a Core Project of the International
- 7 Geosphere-Biosphere Programme.
- 8 **IGFA.** International Group of Funding Agencies for Global Change Research.
- 9 **IGOS.** Integrated Global Observing Strategy.
- 10 **IHDP.** International Human Dimensions Programme.
- 11 **IOC.** the Intergovernmental Oceanographic Commission of UNESCO.
- 12 **IPCC.** Intergovernmental Panel on Climate Change.
- 13 **IRI.** International Research Institute for Climate Prediction .
- 14 **K-12.** Kindergarten through grade 12.
- 15 **MOPITT.** Measurement of Pollution in the Troposphere
- 16 **N<sub>2</sub>O.** Nitrous Oxide
- 17 **NACIP.** National Aerosol–Climate Interactions Program.
- 18 **NACP.** North American Carbon Program.
- 19 **NAS.** National Academy of Sciences.
- 20 **NASA.** National Aeronautics and Space Administration.
- 21 **NCAR.** National Center for Atmospheric Sciences.
- 22 **NCCTI.** National Climate Change Technology Initiative.
- 23 **NEC.** National Economic Council.
- 24 **NGO.** Non-governmental organization.
- 25 **NOAA.** National Oceanic and Atmospheric Administration.
- 26 **NRC.** National Research Council.

## DRAFT

- 1 **NSC.** National Security Council.
- 2 **NSCAT.** NASA Scatterometer.
- 3 **PAGES.** Past Global Changes palaeoscience project of the International Geosphere-
- 4 Biosphere Programme.
- 5 **PDO.** Pacific Decadal Oscillation.
- 6 **PACOM.** Pan-African Committee of START [SysTem for Analysis, Research, and Training].
- 7 **QuikSCAT.** NASA's Quick Scatterometer.
- 8 **SCOPE.** Scientific Committee on Problems of the Environment.
- 9 **SCOR.** Scientific Committee on Oceanic Research of the International Council for Science.
- 10 **SCAR.** Scientific Committee on Antarctic Research of the International Council for Science.
- 11 **SeaWiFS.** Sea-viewing Wide Field-of-view Sensor.
- 12 **SPARC.** Stratospheric Processes and their Role in Climate.
- 13 **SSC.** Scientific Steering Committee
- 14 **START.** SysTem for Analysis, Research, and Training.
- 15 **TAO.** Tropical Atmosphere-Ocean moored array.
- 16 **TOPEX.** Ocean Topography Experiment
- 17 **TRMM.** Tropical Rainfall Measuring Mission.
- 18 **TWAS.** Third World Academy of Sciences.
- 19 **UN.** United Nations.
- 20 **UNDP.** UN Development Programme.
- 21 **UNEP.** UN Environment Programme.
- 22 **USAID.** US Agency for International Development.
- 23 **USGCRP.** US Global Change Research Program.
- 24 **WCRP.** World Climate Research Programme.
- 25 **WMO.** World Meteorological Organization.
- 26 **WHO.** World Health Organization.