

Second Annual Conference on Carbon Sequestration

The U.S. Climate Change Science Program

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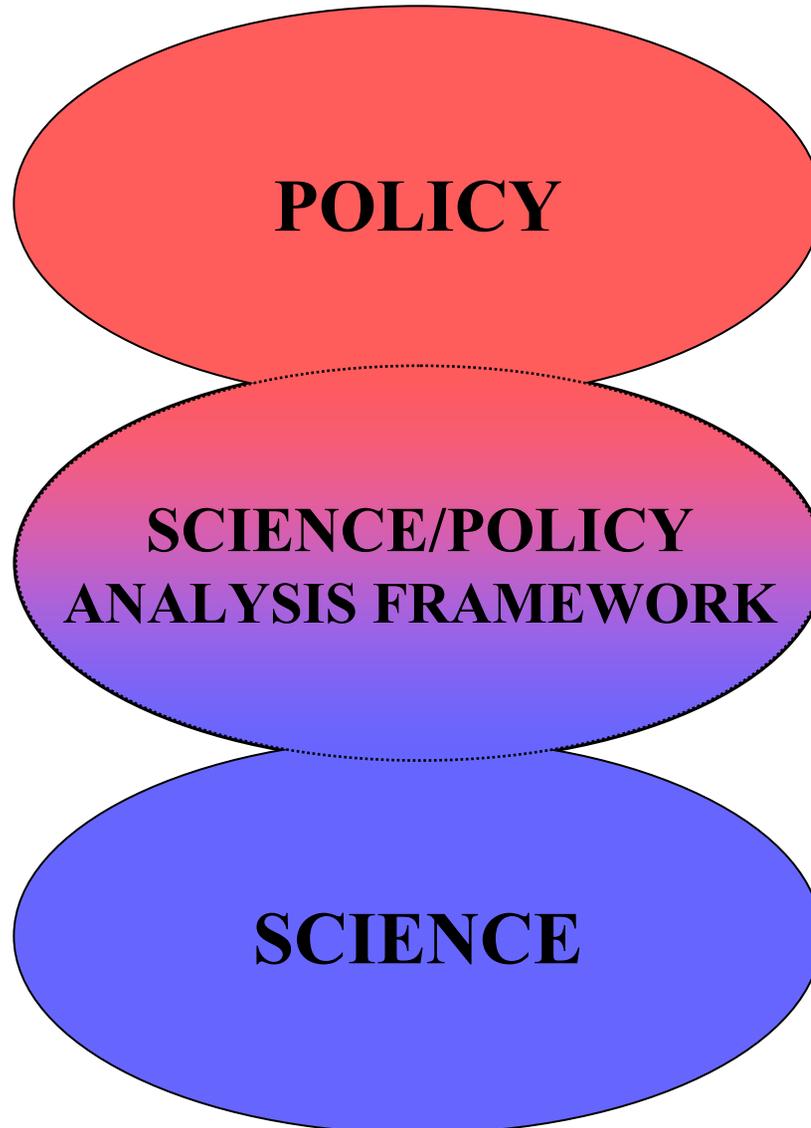
www.climatescience.gov

U.S. Climate Change Science Program – Themes

- **Global climate change: a capstone issue for our generation. Major new technology is needed.**
- **Accelerate the application of basic climate research to the evaluation of response strategy options**



Science-Policy Interface



U.S. Climate Change Science Program – History

- **U.S. Global Change Research Program (USGCRP): 1987 and 1990**
- **President Bush announces Climate Change Research Initiative (CCRI) June 11, 2001**
- **President Bush announces U.S. Climate Change Science Program, incorporating USGCRP and CCRI February 14, 2002**

Climate Science and Technology Management Structure

Office of the President
Climate Change Policy and
Program Review by NSC, DPC, NEC

Committee on Climate Change Science and Technology Integration
Chair: Secretary of Commerce* Vice Chair: Secretary of Energy*
Executive Director: OSTP Director

Secretary of State	NEC Director	Secretary of Transportation
Secretary of Agriculture	NASA Administrator	Secretary of Defense
EPA Administrator	Secretary of the Interior	CEQ Chairman
OMB Director	Secretary of HHS	NSF Director

International Activities
(Including Task Force on International Energy Cooperation)

DOS, DOE, USAID and Other Agencies

Interagency Working Group on Climate Change Science and Technology
Chair: Deputy/Under Secretary of Energy*
Vice Chair: Deputy/Under Secretary of Commerce*
Secretary: OSTP Associate Director for Science

Members DS/US Level:
CEQ, DOD, DOI, DOS, DOT, EPA, HHS, NASA, NEC, NSF, OMB, USDA

Climate Change Science Program
Director: Assistant Secretary of Commerce for Oceans and Atmosphere

Members: DOC, DOD, DOE, DOI, DOS, DOT, EPA, HHS, NASA, NSF, OMB, OSTP, Smithsonian, USAID, USDA

Climate Change Technology Program
Director: Assistant Secretary of Energy for Energy Efficiency and Renewable Energy

Members: DOC, DOD, DOE, DOI, DOS, DOT, EPA, HHS, NASA, NSF, OMB, OSTP, USAID, USDA

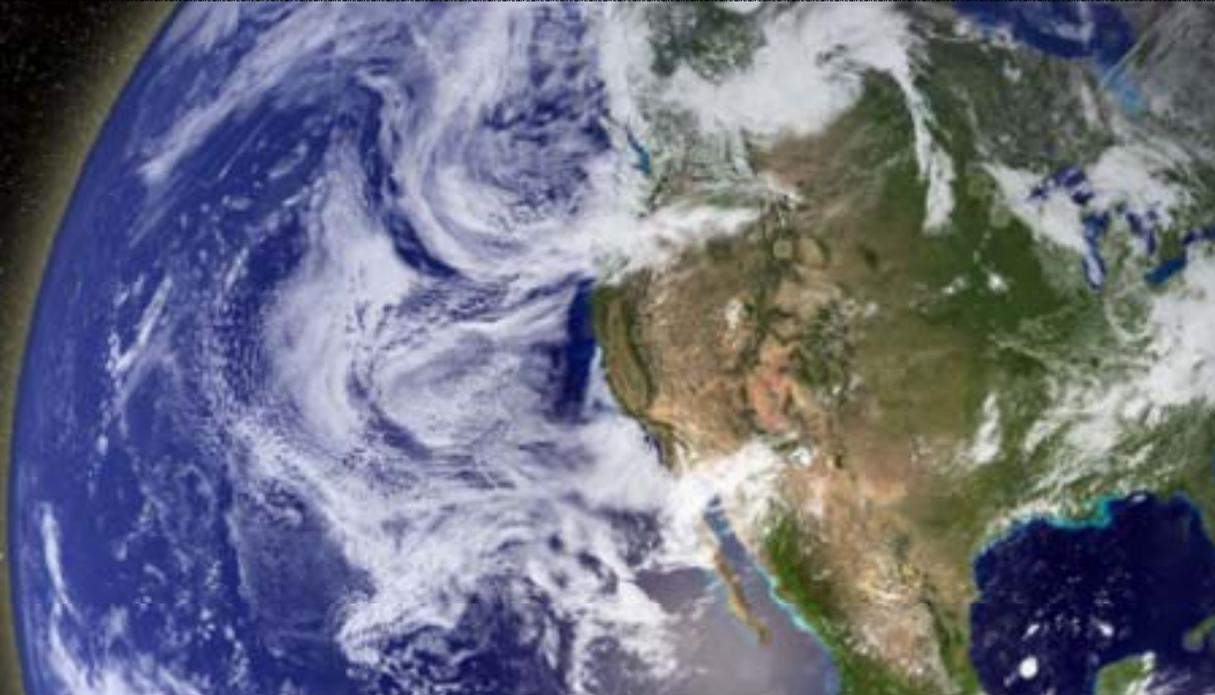
*Chair and Vice Chair of Committee and Working Group rotate annually

Recent National Academy Studies on Climate Science

- **Global Environmental Change: Research Pathways for the Next Decade**
- **Grand Challenges in Environmental Sciences**
- **Improving the Effectiveness of U.S. Climate Modeling**
- **Climate Change Science: An Analysis of Some Key Questions**

U.S. Climate Change Science Program – Four part focus

- 1. Science**
- 2. Observations and Data**
- 3. Decision Support Resources**
- 4. Communication and Education**



U.S. Climate Change Science Program – Time Line

- **Ongoing research and observations**
- **Updated Strategic Plan, November 2002**
- **Broad community review of Strategic Plan at workshop, December 2002**
- **Individual comments received on web site until January 18, 2003**
- **First National Research Council (NRC) Report issued, February 25, 2003**
- **Completion of Strategic Plan, June 25, 2003**
- **Ongoing implementation and reporting**

U.S. Climate Change Science Program – Guidelines

- 1. Question-based strategic plan**
- 2. Integration of USGCRP and CCRI**
- 3. Combined scientific community and stakeholder review**
- 4. Policy relevant and policy neutral standards**
- 5. Transparency and comprehensiveness standards**
- 6. Reporting of basis and degree of certainty in findings**

December 2002 CCSP Workshop Details

- **Keynote Speakers**
- **24 Breakout Sessions**
- **Summary and Feedback Reports**
- **1300 participants**
 - **47 states**
 - **35 other nations**
- **225 Presenters, Panelists, Moderators**

Workshop Results/Public Comments

- **Resources and prioritization**
- **Realistic timelines**
- **Short vs. long term balance**
- **Interagency process**
- **Agency responsibilities**
- **Stakeholder communication, incl. international**
- **Build on prior work**
- **Linkages and cross-cutting themes**
- **Regional analyses**
- **Ecosystem monitoring**
- **Model development**

National Academy Review

- **Special committee formed, October 2002**
- **First meeting held, November 2002**
- **Committee participated in Workshop**
- **Committee will review all written comments**
- **February 2003 Report: Input to final plan**
- **September 2003 Report: Review of entire process**

National Research Council First Report— Compliments

- **Builds on well-established USGCRP foundation**
- **Stresses need for science input to decision making**
- **Identifies many cutting-edge research activities**
- **Calls for greatly improved observational capabilities**



National Research Council First Report— Recommendations

- **Clarify vision, goals, and priorities of the CCSP and CCRI**
- **Improve program management description**
- **Fill key information needs**
- **Enhance efforts to support decision making**
- **Create basis for implementation**
- **Create external review board**

Earth Observation Summit

- **Hosted by the U.S. Government in Washington, DC, on July 31, 2003**
- **Senior international government and non-government leaders in climate science, technology and environment**



Example Science-Policy Framework Topics

- **Sequestration**
- **Greenhouse Gas Stabilization**
- **Technology Development and Adoption**
- **Regional Sensitivity**

