

U.S. Global Change Research Program

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www.globalchange.gov



Why We Are Here

Global Change Research Act of 1190 (P.L. 101-606)

Act at <http://www.globalchange.gov/about/program-structure/global-change-research-act>

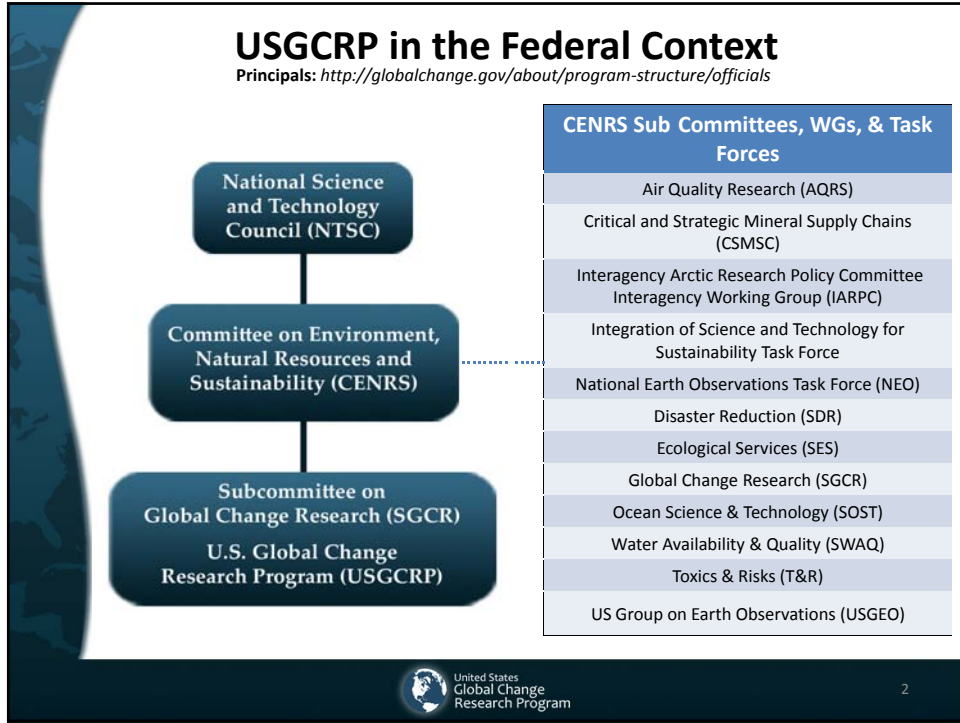
Called for a “comprehensive and integrated United States research program which will assist the Nation and the world to understand, assess, predict, and respond to human-induced and natural processes of global change”

OMB/OSTP FY 14 S&T Memo: Guidance to the Agencies

Memo at <http://www.whitehouse.gov/sites/default/files/omb/memoranda/2012/m-12-15.pdf>

“Emphasize research that advances understanding of vulnerabilities in human and natural systems and their relationships to climate extremes, thresholds, and tipping points”





Subcommittee on Global Change Research

<p>Executive Committee Thomas Karl, Chair Chair National Oceanic and Atmospheric Administration</p> <p>Ann Bartuska, Vice Chair Vice Chair for Adaptation Science Department of Agriculture</p> <p>Michael Freilich, Vice Chair Vice Chair for Integrated Observations National Aeronautics and Space Administration</p> <p>Gerald Geernaert, Vice-Chair Vice-Chair for Integrated Modeling Department of Energy</p> <p>Thomas Armstrong, Executive Director Executive Director U.S. Global Change Research Program Office of Science and Technology Policy</p> <p>Kathy Jacobs Director, National Climate Assessment U.S. Global Change Research Program. Office of Science and Technology Policy</p>	<p>Principals John Balbus Department of Health and Human Services</p> <p>William Hohenstein Department of Agriculture</p> <p>Jack Kaye National Aeronautics and Space Administration</p> <p>Arthur Rypinski (Acting) Department of Transportation</p> <p>Leonard Hirsh Smithsonian Institution</p> <p>Michael Kuperberg Department of Energy</p> <p>Trigg Talley Department of State</p> <p>Joann Roskoski National Science Foundation</p> <p>Andy Miller Environmental Protection Agency</p> <p>Joel Clement Department of the Interior</p> <p>Scott Harper (Acting) Office of Naval Research</p>	<p>Richard Rosen (Acting) National Oceanic and Atmospheric Administration</p> <p>Executive Office and Other Liaisons Henry Kelly Office of Science and Technology Policy</p> <p>John Ten Hoeve Office of Management and Budget</p> <p>Richard Duke Council on Environmental Quality</p> <p>Samantha Brooks U.S. Global Change Research Program Executive Secretary & Implementation Coordinator</p>
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United States
Global Change
Research Program

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USGCRP Decadal Strategic Plan

Overview: <http://globalchange.gov/what-we-do/strategic-planning>

Document: <http://library.globalchange.gov/u-s-global-change-research-program-strategic-plan-2012-2021>



Goal 1 - Advance Science: Advance scientific knowledge of the integrated natural and human components of the Earth system.

- 1.1 Earth System Understanding
- 1.2 Science for Adaptation and Mitigation
- 1.3 Integrated Observations
- 1.4 Integrated Modeling
- 1.5 Information Management and Sharing

Goal 2 - Inform Decisions: Provide the scientific basis to inform and enable timely decisions on adaptation and mitigation.

- 2.1 Inform Adaptation Decisions
- 2.2 Inform Mitigation Decisions
- 2.3 Enhancing Global Change Information

Goal 3 - Conduct Sustained Assessments: Build sustained assessment capacity that improves the Nation's ability to understand, anticipate, and respond to global change impacts and vulnerabilities.

- 3.1 Scientific Integration
- 3.2 Ongoing Capacity
- 3.3 Inform Responses
- 3.4 Evaluate Progress

Goal 4 - Communicate & Educate: Advance communications and education to broaden public understanding of global change and develop the scientific workforce of the future.

- 4.1 Strengthen Communication and Education Research
- 4.2 Reach Diverse Audiences
- 4.3 Increase Engagement
- 4.4 Cultivate Scientific Workforce



The USGCRP Strategic Plan Outcomes and Priorities Activities

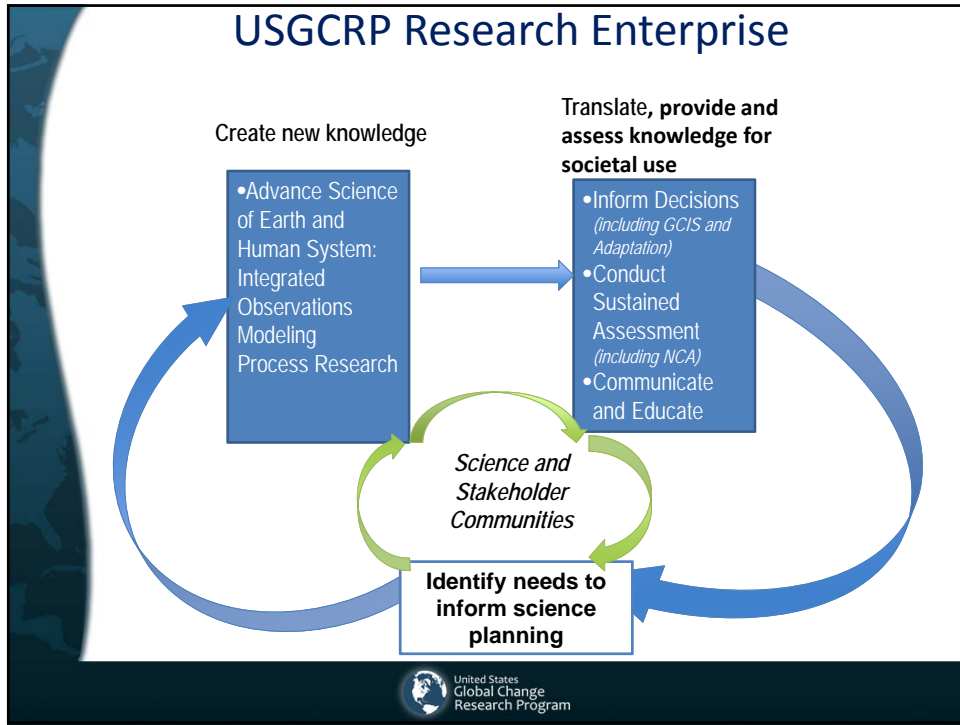
Outcomes

- Providing Knowledge on Scales Appropriate for Decision Making
- Incorporating Social and Biological Sciences
- Enabling Responses to Global Change via Iterative Risk Management

Priorities Activities

- Enhance Information Management and Sharing
- Enable new capabilities for Integrated Observations and Modeling
- Increase Proactive Engagement and Partnerships
- Leverage International Investments & Leadership
- Develop the Scientific Workforce for the Future





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- Agencies should give priority to new activities identified in 2012 Strategic Plan
- Emphasize research that advances understanding of vulnerabilities in human and natural systems and their relationships to climate extremes, thresholds, and tipping points, including:
 - Observations to detect trends in extremes & integration of observations into models
 - Attribution of change to human or natural causes
 - Integrated research on human and natural systems
 - Understanding and prediction at spatial and temporal scales conducive to decision making
 - Adaptation responses to changing frequency and intensity of extreme events

United States Global Change Research Program

International Research Cooperation



ipcc



USGCRP is evaluating its entire international program, establishing new group, integrating into the program, new mechanisms including better support of the program's priorities and goals, while maintaining existing partnerships and contributing to the evolution of global change research internationally

- Evaluation of USGCRP's engagement with international programs and activities (WCRP, IHDP, IGBP, DIVERSITAS, START, IAI, APN, Future Earth, etc.)
- More direct engagement with the SGCR and IWG's and better support of entire breadth of USGCRP agencies needs
- Support hub for interagency engagement in international global change-related activities (IPCC, AMAP, GFCS, ISSC, ICSU etc..)
- More strategic engagement in support of USGCRP and broad international goals and priorities