

THE NATIONAL ACADEMIES

Advisers to the Nation on Science, Engineering, and Medicine

Meeting of the NRC Committee to Advise the USGCRP **DRAFT AGENDA**

National Academy of Sciences Building
2101 Constitution Avenue, N.W. Washington, DC
Meeting Room 360 (Monday) and 118 (Tuesday)

Logistical Support – Rita Gaskins, 202-334-2597; rgaskins@nas.edu

To join via teleconference or WebEx please view instructions at the bottom

December 8, 2014 – NAS Room 360

8:00 a.m. *Breakfast available outside the meeting room*

CLOSED SESSION

8:30 a.m. Closed Committee Discussion

9:30 a.m. *Break*

OPEN SESSION

9:45 a.m. **Session I - Review of Progress toward Goals from USGCRP Strategic Plan**

Goal 1 – Advance Science

- Goal 1 of USGCRP Strategic Plan is to advance scientific knowledge of the integrated natural and human components of the Earth system.
 - During this session, USGCRP will provide updates on progress since the Strategic Plan was adopted in 2010 on three of the five objectives within Goal 1 and discuss the state of the science funded by the federal agencies with the Advisory Committee
 - **Objective 1.1. Earth System Understanding:** Advance fundamental understanding of the physical, chemical, biological, and human components of the Earth system, and the interactions among them, to improve knowledge of the causes and consequences of global change.
 - **Objective 1.2. Science for Adaptation and Mitigation:** Advance understanding of the vulnerability and resilience of integrated human-natural systems and enhance the usability of scientific knowledge in supporting responses to global change.
 - **Objective 1.4. Integrated Modeling:** Improve and develop advanced models that integrate across the physical, chemical, biological, and human components of the Earth system, including the feedbacks among them, to represent more comprehensively and predict more realistically global change processes.
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9:45 a.m.	Building USGCRP from/to Advancing Science	Thomas Karl, USGCRP
9:55 a.m.	Panel Discussion with USGCRP Principals on Progress toward Meeting Objectives 1.1, 1.2, and 1.4 from the Strategic Plan	Gary Geernaert, DOE Craig Robinson, NSF Wayne Higgins, NOAA Jack Kaye, NASA
10:20 a.m.	Initial response from Advisory Committee	[Jacoby, Oge]
10:35 a.m.	Open Discussion	
12:00 p.m.	<i>Lunch</i>	
1:00 p.m.	Session I (Continued) – Review of Progress toward Goals from USGCRP Strategic Plan	
	Goal 1 – Advance Science	
	- During this session, USGCRP will provide updates on progress on two of the five objectives within Goal 1 and hear informal feedback from the Advisory Committee Objective 1.3. Integrated Observations: Advance capabilities to observe the physical, chemical, biological, and human components of the Earth system over multiple space and time scales to gain fundamental scientific understanding and monitor important variations and trends. Objective 1.5. Information Management and Sharing: Advance the capability to collect, store, access, visualize, and share data and information about the integrated Earth system, the vulnerabilities of integrated human-natural systems to global change, and the responses to these vulnerabilities.	
1:00 p.m.	Panel Discussion with USGCRP Principals on Progress toward Meeting Objectives 1.3 and 1.5 from the Strategic Plan Links to President’s Climate Data Initiative and Climate Resilience Tool Kits	Jack Kaye, NASA Michael Tanner, NOAA Curt Tilmes, NASA Timothy Stryker, OSTP [to be confirmed] Chris Weaver, USGCRP
1:15 p.m.	Update on the NRC Decadal Survey	Mark Abbott
1:25 p.m.	Initial response from Advisory Committee	[Abbott, Daszak]
1:40 p.m.	Open Discussion	
2:30 p.m.	<i>Break</i>	

3:00 p.m. Session II – Review of Progress toward Goals from USGCRP Strategic Plan

Goal 2 – Inform Decisions

- Goal 2 of USGCRP Strategic Plan is to provide the scientific basis to inform and enable timely decisions on adaptation and mitigation
- During this session, USGCRP will provide updates on progress since 2010 on the three objectives within Goal 2 and hear informal feedback from the Advisory Committee
 - **Objective 2.1. Inform Adaptation Decisions:** Improve the deployment and accessibility of science to inform adaptation decisions.
 - **Objective 2.2. Inform Mitigation Decisions:** Improve the deployment and accessibility of science to inform decisions on mitigation and the mitigation-adaptation interface.
 - **Objective 2.3. Enhance Global Change Information:** Develop the tools and scientific basis to enable an integrated system of global change information, informed by sustained, relevant, and timely data to support decision making.

3:00 p.m.	Overview of Goal 2 of Strategic Plan from USGCRP	<i>Jeff Arnold</i>
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3:10 p.m. Panel Discussion with USGCRP Principals on Progress toward Meeting Objectives 2.1, 2.2, and 2.3 from the Strategic Plan

Virginia Burkett, USGS
Andy Miller, EPA
Thomas Cuddy, FAA

Other participants: David Herring (NOAA) – Climate Resilience Toolkit, James Butler (NOAA) – Carbon Tracker [remote participation]

3:25 p.m. Initial response from Advisory Committee [Arent, **Chakos**, **Moss**, **Noble**]

3:40 p.m. Open Discussion

4:45 p.m. Synthesis / Overview Discussion *Chris Weaver and Jeff Arnold*

- Comments on progress toward integrating across the first two Goals of the USGCRP Strategic Plan—Advancing Science and Informing Decisions
- What future activities of the Advisory Committee can help provide constructive appraisal and recommendations regarding the Strategic Plan?

5:30 p.m. *Adjourn*

December 9, 2014 – NAS Room 118

8:00 a.m. *Breakfast available outside the meeting room*

OPEN SESSION

8:30 a.m. **Session III - Review of Progress toward Goals from USGCRP Strategic Plan**

Goal 3 – Conduct Sustained Assessments

- Goal 3 of USGCRP Strategic Plan is to build sustained assessment capacity that improves the Nation's ability to understand, anticipate, and respond to global change impacts and vulnerabilities.
- During this session, USGCRP will provide updates on progress on the four objectives within Goal 3 in light of the 2014 NCA and hear informal feedback from the Advisory Committee
 - **Objective 3.1. Scientific Integration:** Integrate emerging scientific understanding of the integrated Earth system into assessments and identify critical gaps and limitations in scientific understanding.
 - **Objective 3.2. Ongoing Capacity:** Strengthen and evolve ongoing capacity to conduct assessments with accessible, transparent, and consistent processes and broad participation of stakeholders across regions and sectors.
 - **Objective 3.3. Inform Responses:** Inform responses to global change with accurate, authoritative, and timely information that is accessible to multiple audiences in multiple formats.
 - **Objective 3.4. Evaluate Progress:** Ensure ongoing evaluation of assessment processes and products, and incorporate the findings into an adaptive response for systemic improvement.

8:30 a.m. Overview of Goal 3 of Strategic Plan from USGCRP

*Fabien Laurier, USGCRP
Tom Karl, USGCRP
Virginia Burkett, USGS*

8:50 a.m. Briefing on Climate Change and Human Health Assessment

Rona Birnbaum, EPA

9:00 a.m. Briefing on Climate Change and Food Security Assessment

Margaret Walsh, USDA

9:10 a.m. Briefing on Adaptations in a Changing Arctic Assessment

Michael Kuperberg, DOE

9:20 a.m. Initial response from Advisory Committee

[Avery, Grimm, Khesghi, Moss]

9:35 a.m. Open Discussion

10:15 a.m. *Break*

10:45 a.m. **Session IV – Review of Progress toward Goals from USGCRP Strategic Plan**

Goal 4 – Communicate and Educate

- Goal 4 of USGCRP Strategic Plan is to advance communications and education to broaden public understanding of global change and develop the scientific workforce of the future.
- During this session, USGCRP will provide updates on progress on the four objectives within Goal 4 and hear informal feedback from the Advisory Committee
 - **Objective 4.1. Strengthen Communication and Education Research:** Strengthen the effectiveness of global change communication and education research to enhance practices.
 - **Objective 4.2. Reach Diverse Audiences:** Enhance existing and employ emerging tools and resources to inform and educate effectively, providing for information flow in multiple directions.
 - **Objective 4.3. Increase Engagement:** Establish effective and sustained engagement to enable a responsive and wholly integrated Program.
 - **Objective 4.4. Cultivate Scientific Workforce:** Cultivate a capable, diverse scientific workforce that is knowledgeable about global change.

10:45 a.m. Overview of Goal 4 of Strategic Plan from USGCRP *Chris Weaver, USGCRP*
Frank Niepold, NOAA

11:15 a.m. Initial response from Advisory Committee *[Avery, Fischhoff]*

11:30 a.m. Open Discussion

12:00 p.m.	Synthesis / Overview Discussion • Comments on progress toward integrating across all Goals of the USGCRP Strategic Plan • What future activities of the Advisory Committee can help provide constructive appraisal and recommendations regarding the Strategic Plan?
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12:30 p.m. *Lunch*

CLOSED SESSION

1:30 p.m.	Closed Committee Discussion
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3:00 p.m. *Meeting Adjourns*

WEBEX Instructions: