

THE NATIONAL ACADEMIES

Advisers to the Nation on Science, Engineering, and Medicine

Climate Research Committee

November 30 - December 1, 2006

AGENDA

Keck Center of the National Academies
500 5th Street, NW
Washington, DC 20001

Thursday, November 30, 2006 (Room 100)

World Climate Research Programme Round-Table

As the U.S. National Committee to the World Climate Research Programme (WCRP), the CRC is charged to maintain liaison with the WCRP in developing and sustaining an international program of climate research. In this role, the CRC held a full-day meeting in October 2005 with the objectives of assessing coordination of U.S. contributions to WCRP, identifying potential science gaps and redundancies, and identifying existing or emerging issues requiring more in-depth attention. Among other things, these discussions pointed to the need for more frequent information exchange between the WCRP and the U.S. agencies. To address this need, the CRC intends to devote a portion of its Fall meeting each year to facilitating these interactions.

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| 10:00 A.M. | Welcome and Introductions | Antonio Busalacchi, Jr.
CRC Chair |
| 10:05 A.M. | Future directions for the World Climate Research Programme (WCRP) <ul style="list-style-type: none">• Anne Henderson-Sellers, WCRP Director• John Church, WCRP Joint Scientific Committee Chair | |
| 10:50 A.M. | Briefings by U.S. federal agencies supporting WCRP-related research <ul style="list-style-type: none">• Don Anderson, National Aeronautics and Space Administration• Chet Koblinsky, National Oceanic and Atmospheric Administration• Wanda R. Ferrell, Department of Energy• Paul A. Dirmeyer, National Science Foundation | |
| 11:30 A.M. | Discussion | |
| NOON | Break | |

Joint Session with BASC

- 1:00 P.M. Briefing of recently released reports
- Completing the Forecast: Characterizing and Communicating Uncertainty for Better Decisions Using Weather and Climate Bob Ryan
NBC4
 - Surface Temperature Reconstructions for the Last 2,000 Years Bob Dickinson
Georgia Tech
 - Strategic Guidance for the National Science Foundation's Support of the Atmospheric Sciences Marvin Geller
SUNY Stonybrook
 - NOAA's Role in Space-Based Global Precipitation Estimation and Application Gene Rasmusson
Univ. of Maryland
 - Review of the Ocean Research Priorities Plan Susan Roberts
Ocean Studies Board Director
- 3:00 P.M. **Break**
- 3:15 P.M. Briefing of recently released reports (continued)
- Multiple Stressors Rosina Bierbaum, Univ. Michigan
Mary Anne Carroll, Univ. Michigan
- 3:45 P.M. Status of NPOESS climate observations Tom Karl, NOAA
Bryant Cramer, NASA
- 4:45 P.M. BASC Summer 2006 strategic planning meeting: overview and comments Robert Serafin
BASC Chair
- 5:30 P.M. **Adjourn**
- 6:00 P.M. CRC 25th anniversary dinner (3rd floor atrium)

Forum on Development of an Abrupt Climate Change Early Warning System

This forum will be focused around the question: "What are the signals of abrupt climate change in the different components of the climate system, and how do we optimize our ability to observe these signals?" Participants will consider both the operational components and the substantial research underpinning required for developing an effective early warning system.

8:30 A.M.	Welcome and introductions	Antonio Busalacchi, Jr., CRC Chair Robert Serafin, BASC Chair
8:35 A.M.	Purpose and objectives of the forum	Ants Leetmaa, GFDL Howard Spero, NSF
9:00 A.M.	Overview of abrupt climate change science: Progress since <i>Abrupt Climate Change: Inevitable Surprises</i> (NRC 2002)	Jonathan Overpeck University of Arizona
9:30 A.M.	Panel considering components of the climate system <ul style="list-style-type: none">• Ocean circulation: Susan Lozier, Duke University• Paleo-oceanography: Lloyd Keigwin, WHOI• Cryosphere: Waleed Abdalati, NASA	
10:30 A.M.	Break	
10:45 A.M.	Panel considering components of the climate system <ul style="list-style-type: none">• Geochemical changes (e.g. methane): David Archer, University of Chicago• Drought: Richard Seager, LDEO	
11:30 A.M.	Human dimensions aspects of early warning systems for abrupt climate change <ul style="list-style-type: none">• Value of information for decision makers: Klaus Keller, PSU	
12:00 P.M.	Discussion	
12:30 P.M.	Break	

Joint Session with Comm. on Human Dimensions of Global Change (Keck 203)

12:30 P.M. Discussions over lunch with the CHDGC about future joint project development

Joint Session with BASC and CHDGC (Keck 100)

1:30 P.M. Update on CCSP committee Antonio Busalacchi, Jr./Ian Kraucunas

1:45 P.M. Project oversight for ongoing ad hoc projects
• Analysis of Global Change Assessments Claudia Mengelt
BASC

• Review of CCSP S&A Products Curtis Marshall/Chris Elfring
BASC

• Archiving and Accessing Environmental and Geospatial Data at NOAA Ian Kraucunas
BASC

• Climate Change and Transportation Nan Humphrey/Amanda Staudt
NRC Transportation Research Board

• Scientific Accomplishments of Earth Observations from Space Claudia Mengelt
BASC

• New Project Development

3:00 P.M. Update on Earth Science and Applications from Space: A Decadal Survey Art Charo
NRC Space Studies Board

3:15 P.M. Review of NASA science plan Antonio Busalacchi, Jr.

3:30 P.M. ***Open session adjourns***