

THE NATIONAL ACADEMIES

Advisers to the Nation on Science, Engineering, and Medicine

Climate Research Committee

DRAFT AGENDA

March 22-23, 2006

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

The objectives of this meeting are:

1. Update the committee on CCSP activities.
2. Consider lessons learned from the Review of CCSP S&A 1.1.
3. Hold a Forum on Development of Integrated Earth System Analysis Capability, exploring opportunities to extend current analysis of individual Earth system components to assimilate the full range of current observations.
4. Provide oversight for ongoing CRC activities.
5. Update the committee on climate-related activities undertaken by other NRC entities.
6. Discuss prospective new CRC activities.

Wednesday, March 22, 2006

CLOSED SESSION – ROOM 101

8:00 A.M.-9:00 A.M.

OPEN SESSION – ROOM 101

9:00 A.M.	Welcome and Introductions	Antonio Busalacchi, Jr. CRC Chair
9:05 A.M.	Update on CCSP Activities	TBD
9:40 A.M.	Follow up on November 14-16, 2005 CCSP Workshop: Climate Science in Support of Decision Making	Mary Glackin NOAA
10:00 A.M.	Lessons Learned from the Review of CCSP S&A 1.1: Temperature Trends in the Lower Atmosphere	Tom Karl, NOAA (conf. call) Bill Randel, NCAR (conf. call)
10:30 A.M.	Break	

FORUM
Development of Integrated Earth System Analysis Capability

Climate analyses and reanalyses are obtained by synthesizing numerous, disparate observations obtained from in-situ and remote platforms within a climate model to provide a comprehensive, temporally continuous, and physically consistent quantitative depiction of the climate system. "First generation" climate analyses and reanalyses have focused primarily on reconstructing the past and current state of the atmospheric component of the climate system. Our capabilities to analyze additional components of the Earth system, such as the oceans and land surfaces, are much less advanced. Furthermore current climate models used for projecting future climate conditions do not assimilate observational data directly. This forum will examine a proposal to focus research efforts on developing an *Integrated Earth System Analysis Capability*. Such a capability would extend beyond current attempts to separately analyze individual components of the Earth system, with the objective of assimilating the full range of current observations.

10:45 A.M.	Development of an Integrated Earth System Analysis Capability: Overview of Proposal	Randy Dole CVC co-chair/NOAA
11:15 A.M.	Overview of contributions from different agencies and coordination opportunities	Anjuli Bamzai CVC co-chair/DOE
11:45 A.M.	Discussion	
NOON	<i>Lunch</i>	
1:00 P.M.	Status of current capabilities <ul style="list-style-type: none">• Atmospheric reanalyses: Phil Arkin, UMD• Oceanic reanalyses: Tony Lee, JPL• Coupled data assimilation for ENSO prediction: Dake Chen, IRI• Assimilation in models used for climate projections: Jeff Anderson, NCAR	
3:00 P.M.	<i>Break</i>	
3:15 P.M.	Status of current capabilities (continued) <ul style="list-style-type: none">• Land surface reanalyses: Michael Bosilovich, NASA GSFC• Carbon cycle reanalyses: Scott Denning, Colorado	
4:15 P.M.	Panel of CRC Member Respondents <ul style="list-style-type: none">• Gerry Meehl, NCAR• David Karoly, University of Oklahoma	
5:00 P.M.	<i>Adjourn</i>	
6:00 P.M.	<i>Committee Dinner</i>	

Thursday, March 23, 2006

8:00 A.M. Continental breakfast

OPEN SESSION – ROOM 201

8:30 A.M. Welcome and Introductions Antonio Busalacchi, Jr.
CRC Chair

8:35 A.M. Project oversight for ongoing ad hoc projects
• Climate Change and Transportation Nan Humphrey
Transportation Research Board

• Analysis of Global Change Assessments Chris Elfring
BASC

• The Future of Rainfall Measuring Missions Leah Probst
BASC

• Surface Temperature Reconstructions Ian Kraucunas
BASC

• CLASS Ian Kraucunas
BASC

9:15 A.M. Update on Earth Science and Applications from Space: A Decadal Survey
Art Charo, SSB
Eric Barron, PSU
Jim Coakley, CRC Member

9:45 A.M. New NRC study on Scientific Accomplishments of NASA Earth Observations from Space
Chris Elfring/Maria Uhle
BASC

10:00 A.M. CHDGC activities Paul Stern, CHDGC
• Development of a joint CRC-CHDGC activity on uncertainty (Linda Mearns)

10:30 A.M. **Break**

10:45 A.M. CCSP Committee Anne Linn
BESR

11:15 A.M. New project development
• GAO Workshop on Climate Change and Public Lands Amanda Staudt
BASC

• Climate Change and Hurricanes (BASC proposal) Chris Elfring
BASC

• The Role of Extratropical Oceans for Climate (PIF?) Maria Uhle
PRB

- Effective Application of Paleoclimate Data to Climate and Global Change Research (PIF?)
- Other new ideas?

Maria Uhle
PRB

NOON ***Lunch***

CLOSED SESSION – ROOM 201

1:00 P.M.-4:00 P.M.