Joint Meeting of the
Board on Atmospheric Sciences and Climate
and the
Climate Research Committee

PUBLIC AGENDA

National Academy of Sciences Building
Thursday, May 17, 2007
Auditorium, 2100 C St. NW, Washington, DC

Please note that food and beverages are not allowed in the NAS Auditorium

9:00 A.M. Welcome and introductions
F. Sherwood Rowland, BASC Chair
Antonio Busalacchi, Jr., CRC Chair

NRC Report Briefings

9:15 A.M. Earth Science and Applications from Space:
Berrien Moore, UNH
National Imperatives for the Next Decade
and Beyond
Anthony Janetos, JGCRI

10:00 A.M. New Panel on Options to Ensure the Climate
Antonio Busalacchi, Jr.
Record from the NPOESS and GOES-R Spacecraft

10:15 A.M. Analysis of Global Change Assessments:
Mack McFarland, DuPont
Lessons Learned
Chris Elfring, BASC Director

10:45 A.M. Break

IPCC AR4: Key Outstanding Questions and High-Priority Research Needs

Topics/questions to be addressed include:

1. What are the key outstanding questions and high-priority research needs emerging from the WGI, WGII, and WGIII contributions to the Intergovernmental Panel on Climate Change’s Fourth Assessment Report (IPCC AR4)?
2. How can WGI research better inform WGII and WGIII?
3. What kind of research program would help improve the reliability of regional-scale results from coupled global climate models in order to increase confidence in future projections?
4. What can NAS/BASC/CRC do to help progress in these areas?

11:00 A.M. Overview of key outstanding questions
V. Ramaswamy
NOAA / GFDL

11:30 A.M. Key questions and topics in cryospheric research
Richard Alley
Penn State

12:00 A.M. Questions and topics emerging from attribution and sensitivity studies
Gabriele Hegerl,
CRC Member
12:30 P.M.  **Lunch break**  
*Cash-only lunch service available in the NAS refectory; ATM available on-site*

1:30 P.M.  Regional modeling, key processes, and uncertainties  
Isaac Held,  
NOAA / GFDL

2:00 P.M.  Metrics for evaluating regional climate projections  
Karl Taylor,  
LLNL / PCMDI

2:30 P.M.  Future scenario development  
Richard Moss,  
United Nations Foundation

3:00 P.M.  Coordinated experiments to address stabilization/mitigation  
Gerald Meehl,  
with the emerging next generation earth system models  
CRC Member

3:30 P.M.  **Break**

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**Forum on Seamless Prediction and “Year of Tropical Convection”**

References/handouts:

Topics/questions to be addressed include:
1. What is missing from these two documents? Are contrary opinions properly represented?
2. Does seamless prediction require unified modeling, and if so is “one size fits all” the best way to allocate resources?
3. Fundamental science questions:
   a) What are the most crucial elements of the large-scale circulation that influence the development, organization and maintenance of tropical convection?
   b) Under what circumstances and with what mechanisms are energy and momentum transferred from the convective scale to the mesoscale, from the mesoscale to the synoptic scale, and from the synoptic scale to the planetary scale?
   c) How does organized tropical convection interact with the extra-tropics?

3:45 P.M.  Session goals  
Clara Deser,  
CRC Member (moderator)

3:50 P.M.  Overview: white paper on seamless prediction  
Jim Hurrell,  
NCAR

4:05 P.M.  Seamless prediction panelists:  
Steven Lord,  
NCEP  
Lee Branscome,  
CRC Member

4:55 P.M.  Overview: YoTC/TROPICSS proposal  
Duane Waliser,  
JPL/Caltech

5:10 P.M.  YoTC/TROPICSS panelists:  
Isaac Held,  
NOAA/GFDL  
Kerry Emanuel,  
BASC Member

6:00 P.M.  **Adjourn**