

Agenda for April 13, 2016

*Location: 1800 G St. Ste 9100, NW, Washington DC 20006: Conference Room: B
(please give yourself an extra 5-10 minutes to go through security)*

Dial in information

Phone: 877.423.6338

Access Code: 527651

Web Link: <https://icf.globalmeet.com/IGIM>

1. 2.	SGCR updates meetings Update about the multi-model IA-IAV meetings	Gary Geernaert/Bob Vallario	10:00 – 10:20AM
3.	Discussion of the US CMS Summit and follow-up actions	Annarita Mariotti/Dorothy Koch/ Renu Joseph	10:20 – 11:15 AM
4. 5.	Highlights for Our Changing Planet Update about the GCRP Strategic Pan	Ron Sands	11:15 – 11:30AM
6.	Activities surrounding the Year of Tropics-Midlatitude Interactions and Teleconnections	Cristiana Stan	11:30 AM – 12:00 noon

Abstract for *Activities surrounding the Year of Tropics-Midlatitude Interactions and Teleconnections*

The study of the general circulation of the atmosphere has been traditionally carried out by considering the regions of the tropics, mid-latitudes and high-latitudes as primarily separate components, with distinct dynamics and sources of variability. The mutual interactions between these components in the atmosphere and ocean on the seasonal and longer time scales has been well recognized. In recent years there has been a greater appreciation of the importance of two-way interactions between the tropics and the mid- and high-latitudes on intraseasonal time scales. The teleconnections between the tropical and extra-tropical regions on subseasonal-to-seasonal

time scales are emerging as a leading candidate to explain high-impact weather events in low- and midlatitudes in a changing climate. They also seem to provide a source of predictability for the large-scale circulation of the midlatitudes. In this presentation I will review the current state of knowledge on the teleconnections at intraseasonal time scales and describe a project with potential for advancing our understanding on this subject. This project is designed to foster relationships between research, forecasting, and stakeholder communities, and will facilitate the sharing of common interests to explore the links between the tropics and midlatitudes.

Highlights of the April 13 IGIM meeting:

- Workshop on Multi-Sector, Multi-Scale IAV-IA Modeling Frameworks: Bob Vallario briefed the group about the IA-IAV interagency workshop which will be led by a subgroup of the IGIM. The workshop will be held May 24-26th at the *Joint Global Change Research Institute*, College Park, MD. The agencies actively participating in the planning include DOE, NSF, USACE, EPA, NGA, DHA, NASA, and USDA. The goal of this workshop is to identify research opportunities, gaps, and options for advancing the state of science and practice. This workshop will focus on user typologies, uncertainty characterization, and modeling coupling approaches. Plenary and breakout topics include: connected/concentrated infrastructure; multi-sector/scale implications of drought; and other cross-cutting issues
- Our Changing Planet Contributions: IGIM has contributed 6 highlights for the OCP: 1) Integrating ice sheets in Earth System Models; 2) Workshop on High-Resolution Coupling and Initialization to Improve Predictability and Predictions in Climate Models; 3) The Second U.S. Climate Modeling Summit; 4) USGCRP agencies successfully predict large 2015/2016 El Niño; 5) Drought monitoring and prediction: focus on California; 6) Permafrost modeling to understand high-latitude carbon cycle feedbacks
- The second US Climate Modeling Summit discussions: Overall, the IGIM found the second summit productive and were pleased about the potential synergies being developed across the six US modeling centers. Activities for coordinating CMIP simulations were discussed in detail. About 7 action items were identified and the decision of the IGIM group was to encourage the US CMS participants to follow through on a few of those.
- Presentation to the IGIM: Dr. Stan presented a review of the current state of knowledge on the teleconnections at intraseasonal time scales and described a project with potential for advancing our understanding on this subject. This project has the potential to foster relationships between research, forecasting, and stakeholder communities, and will facilitate the sharing of common interests to explore the links between the tropics and midlatitudes.