

2017 - US Climate Modeling Summit

March 15, 2017

Location – NSF

Background:

Scope and participants of the meeting are within the general USCMS terms of reference:

- Participation is institutional and at high level to enable decisions
- Exchange of information between modeling Center leads and agency leads is intended to lead to improved coordination among Centers and among sponsoring agencies

The first part of the meeting will include updates from USCMS Chair and the Centers, with particular focus on updates and activities during the past year.

The second part of the meeting will be dedicated to more specific exchanges among Centers with the goal of enabling decisions on joint actions on specific USCMS items.

The meeting will conclude with a set of specific tasks and/or actions, including a process in place to monitor efforts to track progress associated with tasks and actions.

Agenda:

Part I

8:00 – 8:15 am IGIM Introduction

8:15 – 10:05 am USCMS Chair and Center Updates

8:15 – 8:30 am USCMS Chair update [Ram]

8:30 – 10:05 am

Moderator: Bauer (GISS), Rapporteurs: TBD

Center updates (15 minutes per center)

- What is new since last year in science, priorities, challenges
- Highlights of USGCRP priority-relevant current activities
- Highlights of center “grand challenge” topics that would benefit from enhanced national coordination, as topics for future meetings
- Center interests and research in topics A and B

10:05 – 10:25 am Arctic Workshop report out

10:25 – 10:40 am Break

10:40 – 11:00 am Climate and National Security WG report out

Part II

11:00-12:30 Subseasonal-to-Seasonal-to-Decadal Modeling

Moderator: Farrar (NWS). Rapporteurs (TBD, 2 needed)

- (35 min). Each of the 6 modeling Centers describes in 5 minutes (max. 3 PowerPoint slides) their current ongoing research and what challenge/s are they are planning on addressing over the next 3 years. The Center's representatives (one of the two formal reps. at the CMS) will describe the top priorities at their center related to understanding and predictions:
 - 1) System development - what is your highest priority and most urgent issue being addressed?
 - 2) Scientific research - what processes/sources of predictability are being investigated? What is the state of understanding and prediction?
- (40 min).
 - D. Waliser (JPL) (on the phone): NRC S2S Report and WWRP/WCRP S2S Project (20 min)
 - Panel [Tolman, Leung, Molod, Tribbia] leads discussions along the system development/ scientific research pathways and the current US modeling Centers' thrusts in S2S2D. (20 min)
- (15 min). Panel summarizes the outcomes, flagging the most important gaps in understanding and for predictions, and frames 2 principal action items including a provocative/leading question to be addressed by CMS at next year's Summit?

12:30 – 1:30 pm Lunch

Moderator: J. Dunne

1:30 – 2:00 pm HPC and Exascale computing update (Bader, Gross)

2:00 – 3:00 pm Modeling Intercomparison Projects (MIPs)

Panel: Lamarque, Schmidt; Rapporteurs (TBD, 2 needed)

Focus on a US-centric initiative derived from RFMIP, AeroCheMIP, DAMIP. E.g., Aerosol forcings and contrasts with GHG effects on the US continental-scale. (*agenda here to be expanded*)

3:00 – 3:15: VIACS [Alex Ruane]

3:15 – 3:35: Land issues and impacts [Ruby, Dunne, Susanne]?

3.35 – 3.55: Break

4:00 – 5:30 USCMS organizational issues

Moderator: H. Tolman

(Outgoing Chair: Ramaswamy, Rapporteur: TBD)

In reference to the opportunities/actions that have been discussed, centers will discuss organizational arrangements for coming year.

- Recap of actions, POCs and timing.
- Nominate USCMS chair and co-chair for the year (rotating yearly among the Center Directors) and define logistical support (+1 from center or IGIM).
- Discuss communication needs/plans for the year (e.g. for input to 2018 USCMS organization and actions implementation)
- Identify topics of interest for future meetings
- Identify possible workshop topics and workshop chair for 2018

Modeling center representatives

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