Future CESM Atmosphere Modeling Across Scales and Applications
Cross Working Group Session
Monday, 17 June 2019
NCAR – Boulder, Colorado – Center Green Auditorium – Center Bay

Webcast: http://www.fin.ucar.edu/it/mms/cg-center-live.htm

Goals: This session will be a discussion of the future directions of cross-scale atmosphere modeling and its applications. We will share the current status of model configurations with variable resolution (CAM-SE, MPAS), including with chemistry and coupling to the land. We invite participation in future development of the various model configurations and their application to a wide range of science questions.

13:40 Introduction to the session

13:45 B. Skamarock, M. Barth, A. Gettelman, H. Liu – Unified Atmospheric Modeling Across Scales

13:55 Louisa Emmons – Simulating atmospheric composition with regional refinement

14:05 Peter Lauritzen – Dynamical cores across scales in CESM

14:15 Peter Lawrence – Land modeling across scales

14:25 A. Gettelman, J. Bacmeister – Physical parameterizations across scales

14:35 Discussion – Requirements for a future CESM atmosphere (1 yr., 3 yrs., 10 yrs.)

- What are the primary applications for CESM with cross-scale capabilities?
- What should CESM focus on for the next five years?
- What are the needs of this group?

15:10 *Break*