CESM Atmosphere Model Working Group Meeting
8 – 10 February 2016
Mesa Lab, Main Seminar Room
National Center for Atmospheric Research – Boulder, Colorado

Webcast*: *www.fin.ucar.edu/it/mms/ml-live.htm

MONDAY, 8 February:

12:00 *Lunch (on your own)*

Introduction, CESM2, and Physical Parameterization Development

1:00	Introduction and overview of recent and proposed developments	Rich Neale
1:20	The path to CESM2: Coupled-climate experiments	Cecile Hannay
1:40	Current state of cloud microphysics, forcing and feedbacks in CAM6 and CESM2	Andrew Gettelman
2:00	Recent developments and experiments with CAM-CLUBB	Pete Bogenschutz
2:20	An updated variant of CAM with unified clouds and unified microphysics	Eric Raut
2:40	*Break*	
3:10	Direct comparisons of ice cloud macro- and microphysical properties simulated by the Community Atmosphere Model CAM5.4 with HIPPO aircraft observations	Xiaohong Liu
3:30	Progress on CAM5 microphysics using self-consistent ice particle mass- and area-dimension expressions	Ehsan Erfani
3:50	A novel cirrus cloud retrieval method for GCM high cloud validations	David Mitchell
4:10	Further development of orographic drag parameterizations for CAM	Julio Bacmeister
4:30	Relationships among top-of-atmosphere radiation and atmospheric state variables in observations and CESM	Kevin Trenberth
4:50	Adaptive mesh refinement	Bill Collins
5:10	Discussion	
5:30	*Adjourn*	

TUESDAY, 9 February:

Parameterization and Modeling Frameworks

8:30	*Coffee*	
9:00	Recent developments in HOMME dynamical core	Ram Nair
9:20	Current status of CAM-MPAS	Sang-Hun Park
9:40	Dissipation of angular momentum in CAM FV	Thomas Toniazzo
10:00	Continued efforts in reduced complexity modeling with CAM	Kevin Reed
10:20	Moist idealized CAM assessments with simplified physics	Christiane Jablonowski
10:40	*Continental Breakfast*	
11:10	Development and scientific simulations of the CAM aqua-planet configuration	Jim Benedict
11:30	Improving throughput of CAM-SE by parallel splitting atmospheric physics and dynamics	Peter Caldwell
11:50	A new CAM5 ensemble assimilation for forcing other CESM components and for model evaluation	Kevin Raeder
12:10	*Lunch (on your own)*	

Hydroclimate Applications

1:30	Preliminary changes in high-resolution tropical cyclone climatology in CAM5.5	Colin Zarzycki
1:50	Understanding hydroclimatic changes in western USA mountain ranges using the variable-resolution CESM (VR-CESM) multiscale method	Alan Rhoades
2:10	CESM variable-resolution modeling of impacts of absorbing aerosol deposition on snowpack and hydrologic cycle in the Rocky Mountain region	Chenglai Wu

2:30	Examining hydrologic model biases in CAM5 using stable water isotopes	Jesse Nusbaumer
2:50	*Break*	
3:20	A multi-year hindcast experiment for cloud and precipitation studies	Hsi-Yen Ma
3:40	Assessments of marine boundary layer cloud simulations in CAM5 with CLUBB and MG2 using ground-based ARM observations in the Azores	Xue Zheng
4:00	Options for NorESM2 for CMIP6	Trond Iversen
4:20	Discussion	
5:00	*Adjourn*	

WEDNESDAY, 10 February

MEETING MOVES TO FOOTHILLS LABORATORY

Webcast: www.fin.ucar.edu/it/mms/fl-live.htm

Joint Session of Atmosphere Model, Chemistry-Cimate and Whole Atmosphere Working Groups

8:30	*Coffee*	
9:00	Discussion of joint issues	
9:20	CAM dynamics update	Peter Lauritzen
9:40	New CAM-chem developments, prognostic fire injection and SOA schemes	L. Emmons / S. Tilmes
10:00	New prescribed and prognostic volcanic and stratospheric aerosol options in CESM	Mike Mills
10:20	*Continental Breakfast*	
10:50	Nudging timescales and vertical transport in CAMChem-SD and WACCM-SD	Jessica Neu
11:10	Comparing QBO and ENSO impacts on stratospheric transport in WACCM-SD and –FR	Sasha Glanville
11:40	Discussion	
12:00	*Adjourn and Lunch (on your own)*	

MEETING MOVES TO CENTER GREEN CAMPUS FOR AFTERNOON JOINT SESSION

1:20	Bus departs Foothills Laboratory for Center Green Campus