

CESM Atmosphere Model Working Group Meeting
27 February – 1 March 2017
Center Green – North and Center Bays
National Center for Atmospheric Research – Boulder, Colorado

>>>> **Webcast:** <https://ucarconnect.ucar.edu/live?room=cg1aud> <<<<

MONDAY, 27 February:

12:00 *Lunch (on your own)*

Introduction, CESM2, and Physical Parameterization Developments, and ACME updates

1:00	Introduction and overview of recent and proposed developments	Rich Neale
1:20	An update on the coupled simulation of CESM2	Cecile Hannay
1:40	Climate forcings and feedbacks in CESM2	Andrew Gettelman
2:00	Microphysics development (MG3)	Trude Eidhammer
2:20	CAM-CLUBB-SILHS-MG2: Sensitivity to horizontal grid spacing	Vince Larson
2:40	New approach to organized tropical convection parameterization for CAM	Mitch Moncrieff
3:00	<i>Break</i>	
3:30	Strategies for cumulus parameterization for CESM3 and beyond	Leo Donner
3:50	Progress on ACME model development	Peter Caldwell
4:10	Water conservation in CAM5 and the ACME atmosphere model	Kai Zhang
4:30	The CESM and ACME clouds may not be too susceptible to aerosol changes	Phil Rasch
4:50	Advances in the application of parallel split physics / dynamics coupling in atmospheric models	Aaron Donahue
5:10	Discussion	
5:30	<i>Adjourn</i>	

TUESDAY, 28 February:

>>>> **Webcast:** <https://ucarconnect.ucar.edu/live?room=cg1aud> <<<<

8:30 *Coffee*

Dynamics, Parameterization and Modeling Frameworks

9:00	Enforcing conservation of atmospheric axial angular momentum in CAM FV: Method and results in CESM2 and NorESM2 simulations	Thomas Toniazzo
9:20	Experiments preparing for a coarse resolution NorESM2	Lise Graff
9:40	Incorporating realistic surface longwave spectral emissivity into the CESM Model: Impact on simulated climate and the potential ice-emissivity feedback mechanism	Xianglei Huang
10:00	<i>Continental Breakfast</i>	
10:30	Ultraparameterization: Global turbulence-resolving simulation for explicit simulation of cloud-topped boundary layers using SPCAM5	Chris Bretherton
10:50	Potential radiative forcing error from the cirrus cloud pre-existing ice assumption	David Mitchell
11:10	Variable-resolution updates: CAM-SE and CAM-MPAS	Colin Zarzycki
11:30	Lessons learned from the Dynamical Core Model Intercomparison Project (DCMIP-2016)	Christiane Jablonowski
11:50	An overview of the simplified CESM2 model configurations	Peter Lauritzen
12:10	<i>Lunch (on your own)</i>	

Application Studies

1:20	A coupled model hindcast framework for cloud-associated processes evaluation	Hsi-Yen Ma
1:40	Tracing the origins of tropical SST biases in CESM through a hindcast approach	Angela Siongco
2:00	Sensitivity of the Pacific cold tongue and double-ITCZ biases to convective parameterization in CESM1	Matthew Woelfle
2:20	Intermittency of precipitation using hourly data in CESM and the real world	Kevin Trenberth

2:40	Why do climate models drizzle too much and what impact does this have	Chris Terai
3:00	<i>Break</i>	
3:30	Modeling summertime Arctic-midlatitude linkages caused by transport along moist isentropes	Paul Kushner
3:50	An atmosphere with no dust: Implications for hurricane activity	Kevin Reed
4:10	The Madden Julian Oscillation in CAM: Coupling and improvements	Rich Neale
4:30	Discussion	
5:00	<i>Adjourn</i>	

WEDNESDAY, 1 March


Webcast: <https://ucarconnect.ucar.edu/live?room=cg1aud>


8:30 *Coffee*

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

9:00	Summary of the WACCM / CAM / Chemistry modeling suite	Simone Tilmes
9:20	CESM2 release of CAM-SE	Peter Lauritzen
9:40	Surface drag sensitivities in CESM2	Julio Bacmeister
10:00	<i>Continental Breakfast</i>	
10:30	Ice microphysical changes in WACCM and CAM	Chuck Bardeen
10:50	Effect of nitrate aerosols on indirect forcing as modeled by CAM in MOSAIC	Zheng Lu
11:10	Volcanic forcing in CESM2	Mike Mills
11:30	Discussion	
12:00	<i>Adjourn and Lunch (on your own)</i>	
1:30	CESM Joint Session (all working groups)	
5:00	Working Group Information Exchange	