

CESM Atmosphere Model Working Group Meeting
1 – 3 February 2012
Mesa Lab, Main Seminar Room
National Center for Atmospheric Research – Boulder, Colorado

WEDNESDAY, 1 February:

Joint Session: AWMG / WAWG

- 1:00 [Co-chairs welcome and logistics](#)
- 1:10 [Dan Marsh](#) – Comparing WACCM/CCSM4 20th century simulations
- 1:30 [Hanli Liu](#) – Evaluation of an internally generated Quasi Biennial Oscillation in WACCM
- 1:50 [Chuck Bardeen](#) – Cirrus Simulations Using Sectional Microphysics (CAM/CARMA)
- 2:05 [Bo Tan](#) – New parameterization for correcting the "Cold Pole" problem
- 2:20 [Chihoko Yamashita](#) – Gravity waves and high-resolution modeling (using T799 ECMWF)
- 2:35 [Simone Tilmes](#) – The impact of climate engineering on temperatures and precipitation using an idealized solar dimming experiment
- 3:10 [Charles Jackson](#) – Control climate impacts and the response to greenhouse gas forcings: Small differences, big impacts
- 3:30 [Rich Loft](#) – NCAR computing outlook: Yellowstone and beyond
- 3:50 [Mariana Vertenstein](#) – New component grid capability in CESM
- 4:10 [Peter Lauritzen](#) – Transport schemes and orography datasets in CAM

THURSDAY, 2 February:

CAM updates and parameterization development in models

- 8:30 [Rich Neale](#) – Status of CAM development and simulation activities
- 8:50 [Cecile Hannay](#) – What's new in the AMWG diagnostics package?
- 8:55 [Cecile Hannay](#) – Timeslice experiments at high resolution. What does the resolution buy us?
- 9:10 [Phil Rasch](#) – A description of progress on the "prescribed aerosol" CAM5 configuration
- 9:25 [Xiaohong Liu](#) – Evaluating and constraining ice cloud parameterizations in CAM5 with observations
- 9:40 [Pete Bogenschutz](#) – Preliminary Results of the Coupling of CAM with CLUBB
- 10:10 [Peter Caldwell](#) – Macrophysics/microphysics numerical coupling errors
- 11:00 [David Mitchell](#) – Measurements for Guiding Ice Nucleation, PSD and Morphology Parameterizations in CAM5
- 11:15 [Chris Bretherton](#) – Single-column study of low cloud feedback processes in CAM5 vs. LES
- 11:30 [Yong Hu](#) – Impact of a Cloud Thermodynamic Phase Parameterization Based on CALIPSO Observations on Climate Simulation

CAM, high-resolution and resolution dependence

- 1:00 [Phil Rasch](#) – CAM behavior with very high vertical resolution (as low as 10 m at the surface)
- 1:15 [Po-Lun Ma](#) – Resolution dependency of CAM5 physics and its ramification on aerosol transport into the Arctic
- 1:30 [Kate Evans](#) – CAM4 high resolution study comparison of T341 with T85
- 1:45 [Andrea Molod](#) – The Impact of resolution based changes in GCM Total Water PDF on simulations at different horizontal resolutions
- 2:00 [Julio Bacmeister](#) – High resolution CAM: Phenomena and issues
- 2:15 [Kevin Raeder](#) – Multi-instance CESM plus DART for Fully Coupled Assimilation

Dynamical core development and regional climate modeling

- 3:20 [Bill Skamarock](#) – An update on MPAS atmospheric dy-cores in CAM/CESM
- 3:35 [Shian-Jiann Lin](#) – GFDL's finite-volume Cubed-Sphere Dynamical Core: Basic formulation, performance, and its applications in weather and climate modeling
- 3:50 [Mark Taylor](#) – Regional resolution refinement in CAM-SE
- 4:05 [Minghua Zhang](#) – Progress on coupling WRF within CCSM for regional climate change studies

FRIDAY, 3 February:

CAM initialized simulations

- 8:30 [Hsi-Yen Ma](#) – Correspondence between short and long timescale systematic errors in CAM4/CAM5 explored by YOTC data
- 8:45 [Steve Klein](#) – Perturbed-parameter hindcasts of the MJO with CAM5
- 9:00 [Dave Williamson](#) – Quarter degree CAM5 precipitation characteristics in the eastern tropical Pacific in short forecasts

CMIP5 and CESM analysis studies

- 9:45 [Tao Zhang](#) – An evaluation of ENSO asymmetry in CCSM4
- 10:00 [Rich Neale](#) – An evaluation of atmospheric blocking in CESM and CAM
- 10:15 [Jen Kay](#) – CAM and the COSP cloud-simulator package