

CCSM Atmosphere Model Working Group Meeting
2 - 3 March 2009
National Center for Atmospheric Research
Boulder, Colorado

MONDAY, 2 March:

8:30 *Coffee, pastries*

Update and Progress on CAM4 – 9:00 a.m. to 12:00 p.m.

9:00 – 9:10 Co-chairs – Welcome and Introductory Remarks

9:10 – 9:20 [Phil Rasch](#) – Overview of Where We Are with CAM4

9:20 – 10:00 [Cecile Hannay](#) – The Various CAM-only Simulations We Have Explored. Tradeoffs, Known Deficiencies, etc.

10:00 – 10:15 [Xiaohong Liu](#) – Modal Aerosol Treatment in CAM: Evaluation and Indirect Effect

10:15 *Break*

10:45 – 11:00 [Sungsu Park](#) – Microphysics, Cloud Feedbacks, New Ice Microphysics

11:00 – 11:15 [Bill Collins](#) – Radiative Processes in CAM4

11:15 – 11:30 [Rich Neale](#) – Coupled Model Simulations

11:30 – 12:30 Discussion led by Minghua Zhang

12:30 – 13:30 *Lunch*

Performance Issues

13:30 – 13:45 [Art Mirin](#), Pat Worley – Improvements to CAM Throughput

Understanding and Improving CAM in the Short-Term – 14:00 – 17:30 p.m.

13:45 – 14:00 [Dave Williamson](#) – Sensitivity to Increased Vertical Resolution

14:00 – 14:15 [Jen Kay](#) – Evaluating Candidate Configurations of CAM with Satellite Radiation and Cloud Data

14:15 – 14:30 [Steve Klein](#) – Weather Forecast (CAPT) Evaluation of CAM4

14:30 *Break*

14:45 – 15:00 Meredith Franklin – Potential Use of ARM SGP Surface Flux Datasets for CAM Validation

15:00 – 15:15 [David Mitchell](#) – Cirrus Ice Fall Velocities

15:15 – 15:30 [Charles Jackson](#) – Stochastic Sampling of CAM4 Parametric Uncertainties

15:30 – 16:30 Discussion led by Leo Donner

16:30 – 18:00 *Reception (with ChemClimateWG) – Damon Room*

TUESDAY, 3 March:

8:30 *Coffee, pastries*

Issues Relevant to CCSM Coupling, Chemistry, and Climate Change Calculations

- 9:00 – 9:15 [Jean-Francois Lamarque](#) – Chemistry for AR5: Emission and Proposed Simulations
- 9:15 – 9:30 [Caspar Ammann](#), Andrew Conley – Volcanic Forcing and Solar Variability Capability in CAM4
- 9:30 – 9:45 [Philip Cameron-Smith](#) – Fast Chemistry
- 9:45 – 10:15 Discussion led by [Phil Rasch](#)
- 10:15 *Break*

Updates by Other Working Groups

- 10:45 – 11:00 [Dave Lawrence](#) – Update on Land Model Working Group Activities
- 11:00 – 11:15 Marika Holland, [Dave Bailey](#) – Update on Polar Climate Working Group Activities
- 11:15 – 11:30 [Gokhan Danabasoglu](#) – Update on Ocean Model Working Group Activities
- 11:30 – 11:45 [Gordon Bonan](#) – Update on Biogeochemistry Working Group Activities
- 11:45 – 12:00 Discussion led by Phil Rasch
- 12:00 – 13:30 *Lunch*

Miscellaneous Climate Modeling Activities

- 13:30 – 13:45 [Rich Neale](#) – Responses to Convective Enhancement of Surface Fluxes in CAM
- 13:45 – 14:00 [Chris Bretherton](#) – CRM Estimates of Boundary Layer Based Mass Flux Closures for Deep Convection
- 14:00 – 14:15 DeZheng Sun – An Assessment of the Feedbacks from Deep Convection in Climate Models
- 14:15 – 14:30 [Aiguo Dai](#) – Using High Resolution WRF simulations to Improve Convective Parameterization in CAM
- 14:30 – 14:45 Jung-Eun Lee – Stable Water Isotopes as a Tool to Diagnose Convective Parameterization Schemes
- 14:45 *Break*
- 15:15 – 15:30 [Simon de Szoeke](#) – Assessing CCSM Performance in the Eastern Pacific Ocean with NOAA Ship Observations
- 15:30 – 15:45 [Alf Kirkevåg](#) – NORESM: Some Results from CAM-Oslo and a First Control Run
- 15:45 – 16:45 What's next? Lessons Learned, Strategies for Next Generation and Future Development. Discussion led by Co-Chairs.
- 16:45 – 17:00 Programmatic Issues, Wrap-up, Adjourn