

**CCSM Atmosphere Model Working Group Meeting**  
**10 – 12 February 2010**  
**National Center for Atmospheric Research – Boulder, Colorado**

**WEDNESDAY, 10 February:**

**Update and Progress on CAM / Track 5 (2PM – 3:15PM)**

- 2:00 [Co-chairs](#) – Welcome, Logistics, and Introductory Remarks
- 2:15 [Phil Rasch](#) / Rich Neale – Overview of Where we are with CAM-Track 5
- 2:30 [Cecile Hannay](#) – CAM-only Development Simulations
- 2:50 [Rich Neale](#) – Current State of CCSM Track 5 Coupled Control Simulations

**CAM / Track 5 Configuration Updates (3:45PM – 5:30PM)**

- 3:45 [Sungsu Park](#) – Macrophysics, PBL, Shallow Convection
- 4:00 [Andrew Gettelman](#) – Microphysics
- 4:15 [Andrew Conley](#) – RRTM / Radiative Processes in CAM
- 4:30 [Xiaohong Liu](#) – Modal Aerosol Model in CAM
- 4:45 [Peter Lauritzen](#) – FV Dynamical Core and Filtering
- 5:00 Discussion lead by Minghua Zhang

**THURSDAY, 11 February:**

**Joint AMWG – CCWG Meeting (9AM – 12:15PM)**

- 9:00 [Jean-Francois Lamarque](#) – Chemistry for AR5: Configurations, Emission, and Simulations
- 9:20 Xiaohong Liu – Aerosols and Radiative Properties in Track 5
- 9:35 [Andrew Conley](#) – A Radiative Transfer Tool for Offline Calculations
- 9:50 Discussion

**Update from Other Working Groups / CCSM4 – Mean Simulations (10:45AM – 12:15PM)**

- 10:45 [Dave Lawrence](#) – Update on Land Model Working Group Activities
- 11:00 [Dave Bailey](#) – Update on Polar Climate Working Group Activities
- 11:15 [Gokhan Danabasoglu](#) – Update on Ocean Model Working Group Activities
- 11:30 [Keith Lindsay](#) – Update on Biogeochemistry Working Group Activities
- 11:45 [Mark Taylor](#) – AMIP Simulations with HOMME

12:00 Discussion / CCSM4 Release Timelines led by Rich Neale

**CCSM4 Track 1 / Track 5 Comparison and Development Studies (1:15PM – 3:00 PM)**

1:15 [Cecile Hannay](#) – Evaluating Parameterized Variables in CAM along the GCSS Pacific Cross-section

1:30 [Kevin Raeder](#) – An Update on Data Assimilation Research Testbed (DART) Capabilities in CAM

1:45 [Steve Klein](#) – Resolution Dependencies of CAM Simulations

2:00 [Phil Rasch](#) – Results from an Increased Vertical Resolution Version of CAM

2:15 [Julio Bacmeister](#) – High-resolution Hurricane Forecast and Climate Simulations in CAM

2:30 [Bill Gutowski](#) – Implementation of a Non-hydrostatic, Adaptive-grid Dynamics Core in CAM

2:45 [Joe Klemp](#) / [Bill Skamarock](#) – An MPAS Dynamical Core for CAM

**Climate and Climate Sensitivity in CAM (3:30 PM – 5:30PM)**

3:30 [Joe Tribbia](#) – Decadal Climate Prediction using CCSM4

3:45 [Minghua Zhang](#) – Seasonal Variability of Low Clouds in CAM

4:00 [Brian Medeiros](#) – Analyzing Climate Sensitivity in Aqua-planet CAM

4:15 [Jen Kay](#) – Mean Arctic Climate and Climate Changes under GHG / Aerosol Forcing

4:30 [Sungsu Park](#) – The Role of the Cloud Response in Climate Sensitivity

4:45 [Rich Neale](#) / [Andrew Gettelman](#) – Climate Sensitivity in SOM Experiments

5:00 Discussion led by Phil Rasch

**FRIDAY, 12 February:**

**General Contributions 9:00AM – 10:15PM**

9:00 [Charles Jackson](#) – Updated Targets and Results for Estimates of CAM Parametric Uncertainties

[Don Lucas](#) / [Curt Covey](#) – LLNL Climate UQ Project

9:15 [David Mitchell](#) – Satellite Remote Sensing of Liquid Water in Cold Clouds for CAM Validation

9:30 [Brian Mapes](#) – The Multiple Plume Approach to Convection using the UW Shallow Convection Scheme

9:45 [David Neelin](#) – Precipitation and Humidity Relationships in Observations and Models

10:00 Discussion

**Ideas / Plans for Model Development beyond CCSM4 / CESM1 (10:45AM – 3:00 PM)**

10:45 Andrew Gettelman / Rich Neale – Strategic Plan Priorities / Science Goals

11:15 Discussion

1:00 Component Requirements and Plans (*10 minute outline talks + open discussion*)

- 1:00 [Sungsu Park](#) – Unifying Convection

- 1:25 Andrew Gettelman – Microphysics and Sub-column Generators
- 1:50 Xioahong Liu – Prescribed MAM Aerosol, Flexible Radiative Interface Plans
- 2:15 [Peter Lauritzen](#) – Dynamical Core Development
- 2:40 [Julio Bacmeister](#) – High Resolution and Gravity Wave Parameterization

3:30 Discussion led by Rich Neale

- Final Configuration of Track 5
- Release Timelines
- Special Issue Papers
- Development and Release Plans beyond CCSM4 / CESM1

5:00 Programmatic Issues, Working Group Configuration, Wrap-up