CESM Whole Atmosphere Working Group Meeting
17 – 18 February 2015
Mesa Lab – National Center for Atmospheric Research
Boulder, Colorado

Webcast Instructions:
AUDIO: Dial this access number: 1-866-740-1260 – Enter access code 8531794
VIDEO: Go to www.readytalk.com; under "join a meeting" enter access code 8531794

TUESDAY, 17 February – Damon Room

Science Talks
1:00 Welcome, introductions, and logistics  Co-chairs
1:20 Composition and physical properties of the Asian Tropopause Aerosol Layer and the North American Tropopause Aerosol Layer Pengfei Yu
1:40 Quantifying isentropic stratosphere-toposphere exchange (STE) of ozone Huang (Caesar) Yang
2:00 Geoengineering efficacy of sulfur injections in the upper troposphere versus the lower stratosphere Jason English
2:20 Polar stratospheric clouds representation and results in SD-WACCM/MERRA: Implications for CCMs Doug Kinnison
2:40 The microphysical simulation of polar stratospheric clouds based on SD-WACCM/CARMA model over 2010-2011 winter Yunqian Zhu
3:00 Break
3:30 Representing the missing gravity wave forcing in the SH winter stratosphere Anne Smith
3:50 Mesospheric polar vortices in SD-WACCM Lynn Harvey
4:10 Mesospheric inversion layers in FR-WACCM Jeff France
4:30 Traveling planetary-waves in the thermosphere during solar minimum and solar maximum conditions Fabrizio Sassi
4:50 WACCM and NSF Sun-to-Ice: In search of paleoclimate proxies for solar proton events Katharine Duderstadt
5:10 Adjourn

WEDNESDAY, 18 February – Damon Room

WACCM-X
8:30 Coffee
9:00 WACCMX development status Joe McInerney
9:20 Thermosphere trend analysis using WACCM-X Liying Qian
9:40 WACCMX-Plasmasphere / dynamo coupling Ben Foster

Status and Development
10:00 WACCM development plans and priorities Andrew Gettelman
10:15 Discussion
10:30 Break

Joint Session with Chemistry Climate Working Group
11:00 Discussion of CESM2 development and CMIP6
12:00 Lunch (on your own)
### Joint Session: Chemistry Climate, Whole Atmosphere, and Atmosphere Model Working Groups

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter</th>
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<tr>
<td>1:00</td>
<td>Understanding the importance of chemistry representation in CESM1-CAM5</td>
<td>Simone Tilmes</td>
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<td>1:20</td>
<td>Radiative forcings of wildfire aerosols estimated with CAM5</td>
<td>Xiaohong Liu</td>
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<td>1:40</td>
<td>Prognostic stratospheric aerosols in CESM</td>
<td>Mike Mills</td>
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<td>2:00</td>
<td>A multi-model analysis of aerosol effects on clouds simulated by global climate models</td>
<td>Steve Ghan</td>
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<td>2:20</td>
<td>Effects of increased model lid on the atmosphere simulation in CAM5</td>
<td>Yaga Richter</td>
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<td>2:40</td>
<td>On the calculation of insolation in the CESM: A small surprise</td>
<td>Linjiong Zhou</td>
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<td>3:00</td>
<td><strong>Break</strong></td>
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<td>3:30</td>
<td>CAM-SE dynamics update: Physics grid, tracers, …</td>
<td>Peter Lauritzen</td>
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<td>3:50</td>
<td>Overview of the DOE-ACME project</td>
<td>Peter Caldwell</td>
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<td>4:10</td>
<td>CESM workflow plans</td>
<td>Alice Bertini &amp;</td>
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<td>Sheri Mickelson</td>
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<td>4:30</td>
<td>Discussion</td>
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<td>5:00</td>
<td><em>Working Group Information Exchange (ML Cafeteria)</em></td>
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