

CSL Development Simulations

- Water isotope testing of coupling
 - 1850AD and LGM controls: CESM-CAM5-2deg
 - 1850AD and LGM idealized NH/SH meltwater experiments: CESM-CAM5-2deg
 - CAM5 resolution evaluation: 2deg, 1deg, 0.5deg, (0.25deg)
- Carbon isotope development and testing
 - Ocean model testing and spinup – ECO-1deg (BGC WG)
 - Land model testing and spinup - CLM-1deg
 - 1850AD and LGM ‘controls’ CESM-CAM5-BGC-1deg

Journal of Climate

Special Issue Papers

- Markus Jochum, A. Jahn, S. Peacock, D. A. Bailey, J. T. Fasullo, J. Kay, S. Levis, and B. Otto-Bliesner, 2012: True to Milankovitch: Glacial Inception in the new Community Climate System Model. *J. Climate*, **25**, 2226-2239, doi: 10.1175/JCLI-D-11-00044.1.
- Christine Shields, D. A. Bailey, G. Danabasoglu, M. Jochum, J. T. Kiehl, S. Levis, and S. Park, 2012: The Low Resolution CCSM4. *J. Climate*, in press, doi: 10.1175/JCLI-D-11-00260.1.
- Esther Brady, B. L. Otto-Bliesner, and N. Rosenbloom, 2012: Sensitivity to Glacial Forcing in the CCSM4. *J. Climate*, submitted.
- Laura Landrum, B. L. Otto-Bliesner, A. Conley, P. Lawrence, N. Rosenbloom, and H. Teng, 2012: Last Millennium Climate and Its Variability in CCSM4. *J. Climate*, submitted.

CSL Production Simulations

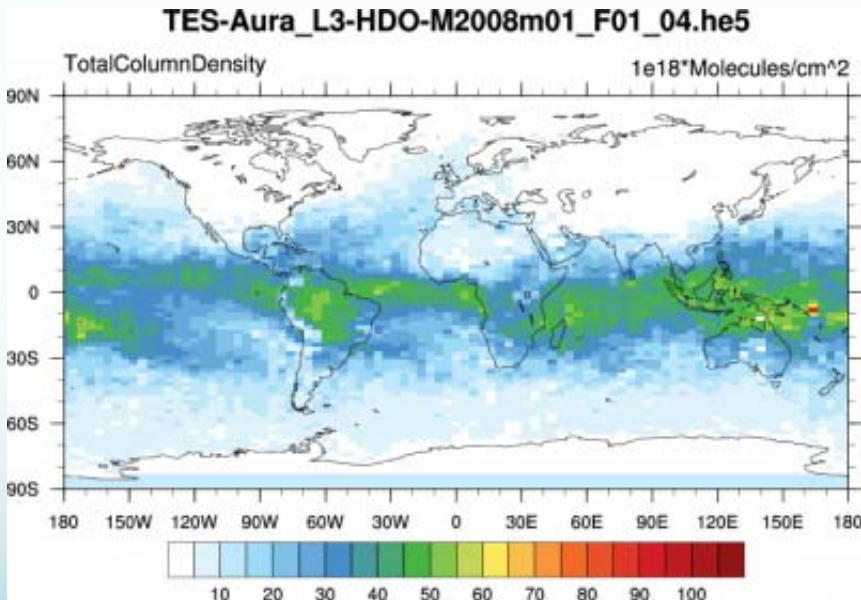
- Ensembles of Last Millennium (850-2005AD) simulations with CESM-CAM5-2deg (2°atmos x 1° ocean), including single forcing and WACCM simulations (Community Project)
- Coupled carbon-climate simulations for past epochs (Last Glacial Maximum and Mid-Holocene) with CESM-BGC-1deg (joint with BGC WG)
- PlioMIP simulations with CESM-CAM5-2deg
- PMIP3-Last Interglacial simulations with CESM-CAM5-CISM-1deg (joint with Land Ice WG)
- Glacial Inception simulations: CESM-CAM5-SOM-0.25deg and CAM5-CISM-1deg (joint with Land Ice WG)

Climate Data Guide

Opportunities for PaleoWG

- Publicize a data set and your perspective on its strengths and limitations and reach the Climate Data Guide's thousands of users worldwide.

<http://climatedataguide.ucar.edu/>



- Expert: Camille Risi
- Summary of 7 satellite-derived products providing a global snapshot of water isotope distribution in #D, with good information on zonal gradients and seasonality.

CESM Metrics

Requirements for PaleoWG

- Seasonal cycle of precipitation of monsoons, incl. onset and end
- AMOC – strength and water mass structure
- East-west structure of tropical Atlantic thermocline
- Atlantic ITCZ

Other wish-list items:

- Configurations: aquaplanet, idealized continents; standalone, slab, coupled