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


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