

CESM Land Ice Working Group Meeting
15 – 17 February 2012
National Center for Atmospheric Research –Mesa Lab
Boulder, Colorado

WEDNESDAY, 15 February

Joint Session: PCWG/LIWG/PaleoClimateWG Contributed Science Talks

- 1:10 [Clara Deser](#) – The role of ocean coupling in the atmospheric response to Arctic sea ice loss
- 1:30 [Julienne Stroeve](#) – Analysis of sea ice CMIP5 simulations
- 1:50 [Ed Blanchard](#) – Atmosphere - sea ice interactions in the Arctic: Non stationarity and implications for predictability
- 2:10 Esther Brady – Climate sensitivity from paleoclimate simulations
- 2:30 [Feng He](#) – The role of North Atlantic Ocean dynamics in simulating glacial inception: a study with CCSM4
- 3:20 [Markus Jochum](#) – True to Milankovitch: Glacial inception in CCSM
- 3:40 William Lipscomb – Ice sheets in CESM: results from CMIP5 simulations
- 4:00 [Stephen Price](#) – Community Ice Sheet Model: development and applications
- 4:20 [Tad Pfeffer](#) – Model projection strategies for glaciers and ice caps and complete assessment of sea level rise

THURSDAY, 16 February – Joint Sessions – Main Seminar Room

Joint Session: CESM Science, Computing, and Data Updates

- 9:00 [Marika Holland](#) – CESM update
- 9:20 [Mariana Vertenstein](#) – CESM software engineering update
- 9:40 [Dave Hart](#) – Yellowstone overview
- 10:00 [Kevin Raeder/Jeff Anderson](#) – Data Assimilation Research Testbed (DART) capabilities and opportunities
- 10:20 [Dave Schneider](#) – Climate Data Guide for climate analyses and model evaluation (<http://climatedataguide.ucar.edu/>)

Joint Session: Working Group Updates

- 11:10 [Bette Otto-Bliesner](#) – Paleoclimate working group update
- 11:20 [Jen Kay](#) – Polar climate working group update
- 11:40 [William Lipscomb / Jesse Johnson](#) – Land ice working group update
- 12:00 [Dave Lawrence](#) – Land working group update, Climate impacts of Arctic shrubs

Land Ice WG Sessions

THURSDAY, 16 February

- 1:45 [Constantine Khroulev](#) – The Parallel Ice Sheet Model (PISM)
- 2:00 [Bob Fischer](#) – Ice sheets in ModelE, the general circulation model of NASA GISS
- 2:15 [Dave Pollard](#) – A simple inverse method for deducing the large-scale distribution of basal sliding coefficients below the Antarctic Ice Sheet
- 2:30 [Jeremy Fyke](#) – Coupled ice sheet/climate simulations of Greenland evolution in high-CO₂ conditions: sensitivity to modeled polar amplification
- 2:45 [William Sacks](#) – Ice sheet model development for CESM1.1
- 3:30 [Daniel Martin](#) – Resolving grounding line dynamics using the BISICLES adaptive ice sheet model
- 3:45 [Kate Evans](#) – Recent developments in the GLIDE CISM dycore to create high-resolution, continent-scale Greenland simulations
- 4:00 [Mauro Perego](#) – A finite element solver for ice-sheet dynamics to be integrated with MPAS
- 4:15 [Duk-Soon Oh](#) – A preconditioning technique based on two-level domain decomposition methods
- 4:30 [Xylar Asay-Davis](#) – An update on our method for simulating dynamic ice shelves in POP

FRIDAY, 17 February

- 8:30 [Jesse Johnson](#) and others – General discussion on ice sheet model robustness
- 10:10 [Mauro Werder](#) – A new 2-D subglacial drainage system model combining channels with sheet flow and water storage
- 10:45 [Matt Hoffman](#) – Coupling a subglacial hydrologic model for distributed water flow to the Community Ice Sheet Model
- 11:15 [Weili Wang](#) – Dynamic inland propagation of thinning due to ice loss at the margins of the Greenland ice sheet
- 11:30 [Liam Colgan](#) – Predicting the sea level rise contribution of Columbia Glacier using Monte Carlo simulations
- 11:45 [Ute Herzfeld](#) – Dynamics of a surging glacier - observations of the Bering Glacier surge 2011 and implications for modeling of crevassing, fracturing, and sudden accelerations
- 12:00 Sebastian Mernild – The climate impact on land-terminating glacier and ice cap mass balance in the northern North Atlantic region