

CESM Land Ice Working Group Meeting
12 – 13 January 2011
National Center for Atmospheric Research – Boulder, Colorado

WEDNESDAY, 12 January – Main Seminar Room:

- 8:00 *Coffee*
- 8:30 Bill Lipscomb – Welcome and overview
- 8:40 [Eric Boman](#) – Progress on Ice Mechanics Modeling and Scalable Algorithms for Ice Fracture
- 9:05 [Dmitry Karpeev](#) – Towards Robust and Scalable Implicit Stokes Solvers: Meshing and Preconditioning Tools
- 9:30 [Alex Tartakovsky](#) – Lagrangian Particle Model for Ice Sheet and Ice Shelf Dynamics
- 9:55 [Dan Martin](#) – BISICLES Update
- 10:20 *Break*
- 10:40 Omar Ghattas – Uncertainty Quantification with Advanced Ice Sheet Models
- 11:05 [Kate Evans](#) – An Improved Solution Framework for Greenland Ice Sheet Simulation within Glimmer-CISM
- 11:30 Discussion
- 12:00 *Lunch*
- 13:00 [Bill Lipscomb](#) – An Update on Land-ice Modeling in CESM
- 13:20 [Xylar Asay-Davis](#) – An Update on Modeling Land-ice/ocean Interactions in CESM
- 13:40 [David Bahr](#) – Scaling Techniques for Simultaneously Modeling Hundreds of Thousands of Glaciers and Ice Caps
- 14:00 John Moore – Progress in the GCCESM
- 14:20 [Ute Herzfeld](#) – On the Influence of Bed Topography on the Modeled Variables of an Ice Sheet Model
- 14:40 [Diandong Ren](#) – A Multi-rheology Ice Model: Formulation and Application to Greenland Ice Sheet Responses to Transient Climate Change
- 15:00 *Break*
- 15:30 Stephen Price – Integrating Glacier and Ice Sheet Hydrology Models in the Community Ice Sheet Model
- 15:50 [Gwenn Flowers](#) – Progress in Modeling Glacier Hydrology
- 16:10 Christian Schoof – Subglacial Drainage Network Modeling
- 16:30 Discussion
- 5:00 *Reception – Damon Room*

THURSDAY, 13 January – Damon Room:

- 8:00 *Coffee*
- 8:30 Steve Price, Gwenn Flowers, Christian Schoof – Glacier and Ice Sheet Hydrology Workshop Format and Goals
- 8:40 [Matt Hoffman](#) – Review of Observations of West Greenland Summer Acceleration Relevant to Process-based Ice-sheet Modeling
- 9:00 Slawek Tulaczyk – Coupling of Subglacial Hydrology and Ice Flow: Insights from a Natural Perturbation Experiment during the Most Recent Drainage of Subglacial Lake Whillans
- 9:20 Steve Price – Summary of Other Relevant Field Efforts (from groups not present)
- 9:30 [Liam Colgan](#) – A 2D, Computationally Light, Single-head Ice Sheet Hydrology Model
- 9:50 [Sam Pimentel](#) – Seasonal Evolution of Subglacial Drainage and Ice Motion in a Glacio-hydrodynamic Flow-band Model
- 10:10 *Break*
- 10:30 Ian Hewitt – Over- and Under-pressure in Subglacial Sheets
- 10:50 Thomas Phillips – Cryo-hydrologic Warming as a Potential Mechanism for Rapid Thermal Response of Ice Sheets
- 11:10 [Caroline Clason](#) – Modeling Meltwater Delivery to the Ice-bed Interface through Fractures at the Margin of the Greenland Ice Sheet
- 11:30 [Sebastian Mernild](#) – Simulated Runoff from the Greenland Ice Sheet and Peripheral Glaciers
- 11:50 [Sasha Carter](#) – Monitoring and Modeling Subglacial Lake Activity in the MacAyeal Ice Stream Catchment
- 12:10 Tim Creyts – Drainage of Subglacial Water in Antarctica
- 12:30 *Lunch*
- 13:45 Discussion
- 14:30 *Break*
- 14:45 Discussion and wrap-up
- 15:30 CGD Seminar – Main Seminar Room
John Moore – Geoengineering, Sea Level, and China