

CESM Land Ice Working Group Meeting
10-11 February 2020
National Center for Atmospheric research – Mesa Lab
Boulder, Colorado

Monday, February 10

(all times are Mountain Standard Time)

Damon Room

To join the meeting remotely: <https://ncar-cgd.zoom.us/j/961396901>

To join by phone, use Meeting ID: 961 396 901

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|-------|---|-------------------|
| 8:30 | Resilience of the Greenland ice sheet firn layer in a future warming climate | B. Noël |
| 8:50 | A 21 st century warming threshold for irreversible Greenland ice sheet mass loss | L. van Kampenhout |
| 9:10 | ISMIP6 Greenland: Multi-model standalone ice sheet sea-level change projections | H. Goelzer |
| 9:30 | ISMIP6-Antarctica: a multi-model ensemble of the Antarctic ice sheet evolution over the 21 st century | H. Seroussi |
| 9:50 | Greenland ice sheet surface mass balance response to the high CO2 forcing: threshold mechanisms for accelerated surface mass loss | R. Sellevold |
| 10:10 | Break | |
| 10:40 | Future multi-century Greenland Ice Sheet mass loss as simulated with CESM2.1-CISM2.1: mechanisms, thresholds and feedbacks for acceleration | M. Vizcaino |
| 11:00 | Greenland Ice Sheet contribution to 21 st century sea level rise as simulated by the coupled CESM2.1-CISM2.1 | L. Muntjewerf |
| 11:20 | Topographic correction of geothermal heat flux in Greenland and Antarctica | W. Colgan |
| 11:40 | How well is CESM2 representing melt across the Antarctic Ice Sheet? | D. Dunmire |
| 12:00 | Lunch (on your own) | |
| 1:00 | A generalized interpolation material point method for the shallow shelf approximation of ice shelf flow and fracture | R. Duddu |
| 1:20 | Linking satellite data analysis and ice-dynamic modeling via auto-adaptive classification and machine learning | U. Herzfeld |
| 1:40 | Antarctic ice sheet ensemble studies to better quantify uncertainties in sea level rise | M. Berdahl |
| 2:00 | Impacts of sea level rise | E. Holland |
| 2:20 | CISM contributions to ISMIP6 and beyond | G. Leguy |
| 2:35 | ISMIP6 Antarctic projections with CISM | W. Lipscomb |
| 2:50 | LIWG software update | K. Thayer-Calder |
| 3:00 | Coffee Break | |
| 3:30 | Informal discussion and side meetings | |

Zoom Phone details:

One tap mobile

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Tuesday, February 11

Land Ice / Paleoclimate Joint Meeting, Visualization Lab

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- 8:30 Coffee
- 8:50 Zoom logistics for presenters
- 9:00 Modelling past ice sheet changes to improve climate projections; the 8.2 kyr abrupt cooling event (REMOTE) L. Gregoire
- 9:20 Fully coupled simulations of the Northern Hemisphere climate and ice sheets during the Last Glacial Maximum with CESM2.1/CISM2.1 (REMOTE) S. Bradley
- 9:40 The PMIP4-CMIP6 Last Glacial Maximum experiments: preliminary results and comparison with the PMIP3-CMIP5 simulations (REMOTE) M. Löffverström
- 10:00 Break
- 10:20 Retreat of the Greenland Ice Sheet during the Last Interglacial A. Sommers/
B. Otto-Bliesner
- 10:40 Searching for subglacial evidence of past West Antarctic Ice Sheet collapse T. Hillebrand
- 11:00 Variable-resolution CESM for polar science A. Herrington
- 11:20 Joint Discussion Topics:
- What CMIP simulations helped you advance your science?
 - What value do you see (or is there) in CESM's participation in the CMIP efforts?
 - Ideas for future projects that the Land Ice and Paleoclimate Working Groups could work on together?
- 12:00 Land Ice / Paleoclimate Lunch in Mesa Lab Cafeteria
- 1:30 Special session on variable-resolution CESM in Damon Room
To join meeting :<https://ncar-cgd.zoom.us/j/556503980>
To join by phone, use Meeting ID: 556 503 980

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