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

8:30 Resilience of the Greenland ice sheet firn layer in a future warming climate  
B. Noël

8:50 A 21st 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 21st 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 21st 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  
+16699006833,659011908# US (San Jose)  
+19292056099,659011908# US (New York)

Dial by your location  
+1 669 900 6833 US (San Jose)  
+1 929 205 6099 US (New York)

Find your local number: https://ncar-cgd.zoom.us/u/acGbu1JUNA
Tuesday, February 11

**Land Ice / Paleoclimate Joint Meeting, Visualization Lab**
Join Zoom Meeting [https://ncar-cgd.zoom.us/j/961396901](https://ncar-cgd.zoom.us/j/961396901)
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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. Löfverström

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](https://ncar-cgd.zoom.us/j/556503980)
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