

Draft workshop schedule

Format:

review talks: (30-40 minutes, then 5 minutes discussion/questions after each talk, with longer discussion after set of related talks)

prior to meeting:

electronically disseminate model results and geological inferences ahead of the workshop so that participants would have data handy on laptops

Mini-talks are meant to complement posters. Unlabelled gaps in the program are meant for short discussion/clarification on the previous talk(s). (Non-mini) talks should be planned to allow time for questions during the talk.

To ensure coherence and avoid repetition, drafts of all talks will be circulated among speakers a week before the meeting. Any embargoed data/plots can be deleted from the circulated drafts.

Thursday:

8:40-8:45 Intro/welcome

8:45-9:20 Geological inferences of past ice sheet evolution, issues and uncertainties : Mike Bentley

9:25-10:05 Ice Sheet Modelling: current state of the art, challenges and uncertainties : Frank Pattyn

10:05-10:15 Discussion/questions

10:15-10:20: Instability example 1, 4 slide mini-talk: Geologic targets for modelling the instability of the Greenland ice sheet. Dave Roberts

10:20-10:25: Instability example 2, 4 slide mini-talk: Exploring controls on ice stream destabilization in West Greenland. Anders Carlson

10:25-10:30 discussion on mini-talks

10:30-11:00 break, coffee, and posters (focus on Greenland)

11:00-11:40 Greenland geology: inferred evolution and key outstanding questions/conflicts, Kurt Kjaer

11:45-12:10 Greenland Marine, Anne Jennings

12:15-12:30 Greenland models: evolution, results, and comparison to data: Benoit Lecavalier

12:30-12:40 10Be remote sensing of the ice/rock/regolith interface under the Greenland Ice Sheet. Paul Bierman

12:40-13:05 Greenland model/data discussion, including contributed model results

13:05-14:00 lunch, posters

14:00-14:05 Instability example #3: 4 slide mini-talk: Late glacial and deglacial millennial-scale variability in Antarctic ice-sheet discharge: Michael Weber

14:10-15:50 Antarctic geology: Mike Bentley, Brenda Hall, John Stone, discussion

15:50-16:20 Antarctic marine records: Claus-Dieter

16:25-17:00 posters plus refreshments (focus on Antarctic)

17:00-17:40 Antarctic modelling: Rob DeConto

17:45-18:05 Data-constrained modelling of Antarctic ice sheets at the Last Glacial Maximum, and implications for their deglacial SL contribution, impact of model resolution: Nick Golledge

18:05-18:30 Antarctica model/data discussion, including contributed model results

18:30-18:50 Discussion: commonalities and differences between Antarctic and Greenland dynamics and research approaches. What changes are needed to the models to better address outstanding issues/questions/data-model misfits?

Friday:

8:40-9:15 GIA, models, records, uncertainties. Pippa Whitehouse

9:20-9:30 6 slide mini-talk (plus questions): issues/lessons in fully coupled global 3D
GIA-sealevel/glaciological modelling: Bas de Boer

9:30-10:20 near and far-field marine records: Claus-Dieter and Anne Jennings, questions

10:25-10:45 coffee and posters

10:45-11:15 ice core records as constraints and associated uncertainties: Catherine Ritz.

11:20-12:35 update/review on phasing between Antarctic and Greenland ice sheet
evolution: Peter Clark and Antony Long

12:35-13:05 discussion on marine records and phasing

13:05-14:00 lunch/posters

14:00-14:35 integrating data and models, quantifying uncertainty: Lev Tarasov.

14:40-15:10 Discussion: information exchange between modellers and field folk:

Observational uncertainties: What are modellers not aware of?

What do modellers need from field folk?

What are the uncertainties in models that non-modellers need to understand?

How can model output be made more useful/accessible to field folk?

15:10-15:25 Building useful/maintainable/complete data-bases: Leanne Wake

15:25-15:50 Discussion/planning: Evaluation of existing databases. Setting up online paleo databases
for data and model output.

15:50-16:20 break/posters

16:20-16:40 Synthesis talks of meeting

16:40-17:40 Discussion

Delineate key questions/issues with respect to past Antarctic and Greenland ice
sheet evolution. Identify priorities for new data and for model improvement. Consider
possible follow-ups for the workshop.

17:40-17:50 Review/summary of next steps and Saturday field trip logistics

Saturday: Field trip (still being finalized)