2007 WAIS Workshop Agenda

Wednesday, September 5

Time	Topic	Speaker
4:00 to 6:00	Registration	Main Building
7:00 to 9:00	INFORMAL DINNER (Pizza and Drinks)	Cottage #1

Thursday, September 6

Time	Topic	Speaker
8:00	BREAKFAST	Main Building
8:00	Registration	Main Building
9:00	Welcomes and Introductions	Main Building
	Topic #1: Ice Shelves and Oceans	
9:30	First (1957–58) Geophysical Investigation of the Filchner–Ronne Ice Shelf [Abstract] [Presentation]	Behrendt
9:45	Basement architecture and sedimentary cover in the Amundsen Sea Embayment: Parameters for reconstructing ice-sheet expansion? [Abstract] [Presentation]	Gohl
10:00	Transient Temperatures and Redoubtable Reticence in the Amundsen [Abstract] [Presentation]	Jacobs
10:15	Location and timing of Circumpolar Deep Water intrusions onto the Amundsen Sea continental shelf simulated with an isopycnic coordinate ocean model [Abstract] [Presentation]	Jenkins
10:30	The Filchner Ice Shelf Water Overflow [Abstract] [Presentation]	Osterhus

10:45	BREAK (30 min.)	
11:15	Modeling the impact of tidal currents on ocean circulation beneath Filchner-Ronne Ice Shelf [Abstract] [Presentation]	Makinson
11:30	Oceanographic and Bathymetric Observations at the Ilulissat Ice Fjord [Abstract]	Holland, D.
11:45	The response of ice-shelf basal melting to variation in ocean temperature [Abstract] [Presentation]	Holland, P.
12:00	Poster Introductions (30 min.)	
12:30	LUNCH (90 min.)	
2:00	Effects of changes in the open ocean on the melting underneath the Ross Ice Shelf in a model of the Ross Sea [Abstract] [Presentation]	Dinniman
2:15	A calving law for ice shelves: spreading-rate control of calving rate [Abstract] [Presentation]	Alley
2:30	When iceberg calving matters: An investigation into the feedbacks between iceberg calving and dynamic changes in the flow of inland ice [Abstract] [Presentation]	Bassis
2:45	Ice-y Breakups: How I Lost My AMIGOS in Antarctica [Abstract] [Presentation]	Scambos
3:00	PANEL DISCUSSION (30 min.)	Plenary
3:30	BREAK (30 min.)	
	Topic #2: Ice Stream Grounding Lines	
4:00	Radar attenuation and temperature near the grounding line of Whillans Ice Stream [Abstract] [Presentation]	MacGregor
4:15	Grounding line migration and ice shelf buttressing in a two-dimensional marine ice stream model [Abstract] [Presentation]	Goldberg
4:30	A Modern Analogy to Explain Relict Grounding Lines of Kamb Ice Stream, Antarctica [Abstract] [Presentation]	Catania
4:45	Treatment of grounding-line dynamics in ice sheet-shelf models [Abstract] [Presentation]	Pollard
5:00	PANEL DISCUSSION (30 min.)	Plenary
5:30	BREAK (30 min.)	
6:00	DINNER	Main Building

Friday, September 7

Time	Topic	Speaker
	Topic #3: Ice Stream Bases	
9:00	GPS measurements from Pine Island Glacier [Abstract] [Presentation]	Scott
9:15	Basal conditions on Pine Island Glacier [Abstract] [Presentation]	Smith, A.

9:30	A recent volcanic eruption in West Antarctica [Abstract]	Corr
9:45	Mapping West Antarctic subglacial processes using detailed basal morphology: Implications for Thwaites Glacier, based on knowledge gained from the Siple Coast [Abstract] [Presentation]	Young
10:00	The evolution of surface flow stripes and stratigraphic folds within Kamb Ice Stream –why don't they match? [Abstract]	Campbell
10:15	BREAK (45 min.)	
11:00	Spatial Variation of Basal Conditions on Kamb Ice Stream [Abstract] [Presentation]	Jacobel
11:15	How sticky are sticky spots? Constraints from passive seismic [Abstract] [Presentation]	Winberry
11:30	Decadal dynamics of basal conditions as viewed from the ice bulge on Kamb Ice Stream [Abstract]	Tulaczyk
11:45	Subglacial lakes: They're (almost) everywhere [Abstract] [Presentation]	Smith, B.
12:00	A linked system of lakes on MacAyeal Ice Stream [Abstract] [Presentation]	Fricker
12:15	LUNCH (90 min.)	
1:45	Effects of the ice-stream basal conditions on its surface elevation. Cry for velocity data [Abstract] [Presentation]	Sergienko
2:00	Using inverse methods to recover basal velocities [Abstract] [Presentation]	Truffer
2:15	PANEL DISCUSSION (30 min.)	Plenary
2:45	BREAK (30 min.)	
	Topic #4: Ice Sheets	
3:15	Advances in describing recent Antarctic climate variability [Abstract] [Presentation]	Bromwich
3:30	Antarctic ice mass fluxes from satellite observations and a regional climate model [Abstract] [Presentation]	Bamber
3:45	WAIS wasting in the Amundsen Sea Embayment since the Last Glacial Maximum [Abstract] [Presentation]	Larter
4:00	Solving for a history of ice thickness in the southern Ross Sea Embayment using inverse methods and surface-exposure ages [Abstract] [Presentation]	Todd
4:15	BREAK (30 min.)	
4:45	A preliminary cyclostratigraphic and paleo-environmental analysis of the new high-resolution McMurdo Ice Shelf (ANDRILL) drill core has implications for WAIS history and dynamics [Abstract] [Presentation]	Powell
5:00	What can ANDRILL tell us of long-term WAIS history? [Abstract] [Presentation]	Scherer
5:15	Antarctic Scientific Drilling: What, Where, and Why [Abstract] [Presentation]	Rack
5:30	BREAK (30 min.)	

6:00	DINNER	Main Building

Saturday, September 8

Time	Topic	Speaker
8:30	Lost, but found: A large WAIS drainage basin existed in the southern Bellingshausen Sea during the last glacial period [Abstract] [Presentation]	Hillenbrand
8:45	Boundary conditions for a full-momentum solver: 1) The dilemma of sliding and 2) how do we do embedded models? [Abstract] [Presentation]	Fastook
9:00	Thermal Convection and the Origin of Ice Streams [Abstract]	Hughes
9:15	Tipping points: nonlinearity and hysteresis in ice sheets [Abstract] [Presentation]	Schoof
9:30	Millennial versus orbital influences on ice marginal fluctuation: the southern signal [Abstract] [Presentation]	Vacco
9:45	Ice sheets in the Community Climate System Model [Abstract] [Presentation]	Lipscomb
10:00	PANEL DISCUSSION (30 min.)	Plenary
10:30	GUEST FEEDBACK	
11:00	WAIS/FRISP business	
12:00	Adjourn	

Poster Session (Wednesday, September 21)

Topic	Lead Author
A Monte Carlo Investigation of Inherited Cosmogenic Nuclides in Moraine Boulders [Abstract]	Applegate
Glacial history of the Ellsworth Mountains, Weddell Sea embayment, West Antarctica [Abstract]	Bentley, M.
Thickness and Structure of the Crust beneath the Thwaites Glacier Catchment, West Antarctica [Abstract]	Diehl
Numerical modeling of subglacial-sediment dynamics [Abstract]	duBois
When the Bough Breaks: Implementing an Empirical Calving Rule in a Dynamic Stream/Shelf Model [Abstract]	Dupont
Investigations of near-vertical subsurface structures near Swiss Camp, Greenland [Abstract]	Greenbaum
Progress towards an Image-Enhanced 250 m DEM for the West Antarctic Ice Sheet [Abstract]	Haran
Developing a long term strategy for using AUVs in polar research [Abstract]	Heywood
A model of tidally-dominated ocean processes near ice-shelf grounding lines [Abstract]	Holland, P.
Patterns of glacier response to disintegration of the Larsen B ice shelf, Antarctic Peninsula [Abstract]	Hulbe

LC-130 Deep Field Capabilities [Abstract] [Presentation]	James
First exposure ages from the Amundsen Sea embayment, West Antarctica: the Late Quaternary context for recent thinning of Pine Island, Smith and Pope Glaciers [Abstract]	Johnson
The influence of sea-ice and the Ross Ice shelf on water properties [Abstract]	Klinck
Connections between meteorology and chemistry in surface snow: Clark Glacier, McMurdo Dry Valleys, Antarctica [Abstract]	Kreutz
Large scale modeling of ice flow for the entire Antarctica continent [Abstract]	Larour
A coupled ice/water flow model for West Antarctica [Abstract]	LeBrocq
Accumulation Rates Over the Thwaites Glacier Catchment, West Antarctica, Using Radar Reflection Layers [Abstract]	Leuro
Potential Vorticity Constraints on Buoyancy-Forced Circulation in Ice Shelf Cavities [Abstract]	Little
Opportunities (?) for Probabilistic Assessment of Ice Sheet Response to Climate Change [Abstract]	Little
Exposure ages from mountain dipsticks indicate little change in East Antarctic Ice Sheet thickness since the Last Glacial Maximum and stability from the mid Holocene [Abstract]	Mackintosh
Detection of in-situ ice fabric anisotropy using polarimetric radar method near WAIS Divide [Abstract]	Matsuoka
A sediment model and retreat history for the Ross Ice Shelf (Sheet) since the LGM [Abstract]	McKay
Sensitivity of ice-shelf/ocean interactions to vertical resolution and thermodynamic parameterizations in the ROMS model [Abstract]	Mueller
Bathymetry of the Amundsen Sea Continental Shelf [Abstract]	Nitsche
Bipolar Atlantic Thermohaline Circulation (BIAC) IPY Cluster # 23 [Abstract]	Osterhus
Focused SAR Processing of Airborne Radar Sounding Data from Kamb Ice Stream [Abstract]	Peters
Basal conditions at two sticky spots along Kamb Ice Stream, West Antarctica [Abstract]	Peters
Cenozoic variations of the Antarctic Ice Sheet: a model-data mismatch? [Abstract]	Pollard
High-salinity waters beneath the margin of the West Antarctic ice sheet - evidence from ANDRILL porwater studies [Abstract]	Quintana-Krupinski
ANDRILL's Education and Public Outreach Efforts [Abstract]	Rack
Significant Glacier Thinning (Or Not) in the Larsen B Embayment [Abstract]	Shuman
Ice shelf melting in the Amundsen Sea from oceanographic observations [Abstract]	Shoosmith
From shelf break to ice shelves: oceanographic observations in the Bellingshausen Sea, Summer 2007 [Abstract]	Shoosmith
Estimating the salinity of subglacial lakes from aerogeophysical data [Abstract]	Studinger
Development of an aerogeophysical imaging system for polar applications: Phase I: Gravimeter test flights to the North Pole [Abstract]	Studinger

Moho topography of the West Antarctic Rift System from inversion of aerogravity data: ramifications for geothermal heat flux and ice streaming [Abstract]	Studinger
Optical probing of glacial ice using short-pulse lasers [Abstract]	Talghader
Surface exposure ages from Reedy Glacier, Antarctica [Abstract]	Todd
The Science and Art of LIMA [Abstract]	Vornberger
Long-term Mass Balance of the Pacific Ocean Sector of Antarctica Based on Multisensor Fusion [Abstract]	Yoon
Comprehensive surface elevations for Thwaites Glacier: Results from AGASEA airborne laser altimetry [Abstract]	Young

2023 WAIS Workshop

2022 WAIS Workshop

2022 Agenda

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Previous Meetings