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LINKS

2004 WAIS Workshop Agenda

Wednesday, September 29, 2004		
2:00 to 6:00	Registration	Floyd
7:00	Pizza, beer and snacks (cottage #1)	Bindschadler
Thursday September 30, 2004		
8:00	CONTINENTAL BREAKFAST	
8:00	Registration	Floyd
8:30	Welcome and Agenda Review	Bindschadler
8:45	NSF Remarks	Palais/Borg
	<i>Question #1. "To the LGM and Beyond" – What more have we learned about Antarctic paleoclimate and ice sheet configuration prior to the Holocene and how is it relevant to the near-term future of the ice sheet?</i>	
9:15	Perpetual Motion: The Fatal Flaw in Glaciology [Abstract]	Hughes
9:30	Glacial history of Marie Byrd Land – from thousands to millions of years [Abstract] [PDF]	Stone
9:45	Tradeoff between climate and thickness histories at Siple Dome during the past 25 ka [Abstract] [PPT]	Waddington
10:00	Constraints on the magnitude and timing of post-LGM thinning at Siple Dome from thermomechanical flow modeling [Abstract] [PPT]	Price
10:15	BREAK (30 min.)	

10:45	A Time Marker from the LGM Detected Throughout West Antarctica [Abstract] [PPT]	Jacobel
11:00	Post-LGM changes in ice stream tributary flow near Byrd Camp [Abstract] [PPT]	Welch
11:15	Internal radar layers in central West Antarctica and their implications for Holocene ice sheet changes [Abstract] [PPT]	Blankenship
11:30	Discussion of Question #1 (30 min.)	PLENARY
12:00	Poster Introductions (1–2 min. each)	
12:30	Poster Viewing (15 min.)	
12:45	LUNCH (1 hr. 15 min.)	
	Question #2. "WAIS Look-Alikes" – Are there good analogs to West Antarctic behavior elsewhere and what can we learn from these areas?	
2:00	Possible Role for Surficial Lakes in Meltwater Drainage through Cold Glaciers [Abstract]	Alley
2:15	Modeling of glacial stagnation vs. glacial retreat [Abstract] [PPT]	Vacco
2:30	Numerical modelling of the Eurasian ice sheet and its relevance to West Antarctica [Abstract] [PPT]	Siegert
2:45	WAIS Analogs in Greenland? [Abstract] [PPT]	Joughin
3:00	BREAK (30 min.)	
3:30	A WAIS analog found on Mars polar cap [Abstract] [PPT]	Wang
3:45	What happened to the volcanic debris erupted beneath the West Antarctic ice sheet? [Abstract]	Behrendt
4:00	Self-help: ice streams retain more water by moving faster [Abstract]	Bindschadler
4:15	Discussion of Question #2 (30 min.)	PLENARY
4:45	International Polar Year (International Planning) [PPT]	Bindschadler
5:00	International Polar Year (US Planning) [PDF]	Albert
5:15	Plans for the 2004–05 Airborne Geophysical Survey of the Amundsen Sea Embayment, Antarctica (AGASEA) [Abstract]	Holt

5:30	Poster Viewing	
6:00	DINNER	
Friday, October 1, 2004		
8:00	CONTINENTAL BREAKFAST	
	Question #3 "Wild, Wild West" – What is the latest on variability of the West Antarctic ice sheet and its environment during the Holocene (last 10,000, or so)?	
8:30	Environmental variability and change impacts on firn memory in West Antarctica [Abstract] [PDF]	Albert
8:45	Antarctic temperatures since 1856 [Abstract] [PPT]	Steig
9:00	Holocene Summer Temperature Increase in West Antarctica [Abstract] [PPT]	Das
9:15	Implications of the deuterium excess record from the Siple Dome ice core [Abstract] [PPT]	Schilla
9:30	A 200–Year Sulfate Record from 16 Antarctic Ice Cores and Associations with Southern Ocean Sea Ice Extent [Abstract] [PPT]	Dixon
9:45	West Antarctic Ice Core Chemistry and Self–Organizing Maps: A First Look [Abstract] [PPT]	Reusch
10:00	BREAK (30 min.)	
10:30	Warm ocean is eroding West Antarctic ice sheet [Abstract] [PPT]	Shepherd
10:45	Latest InSAR/ICESat/CECS–NASA results from Pine Island/Thwaites Glaciers, West Antarctica [Abstract] [PPT]	Rignot
11:00	Basal ice accretion, availability of basal water, ice stream stoppage and potential restart of Kamb Ice Stream [Abstract]	Vogel
11:15	Dynamic significance of the flat–ice terrains in the mouth of Kamb Ice Stream [Abstract] [PPT]	Catania
11:30	Fast–flow signatures on Kamb Ice Stream [Abstract] [PPT]	Conway
11:45	Flow–generated records in the Ross Ice Shelf: evidence for grounding line changes and past shutdown of Whillans Ice Stream [Abstract] [PPT]	Fahnestock
12:00	Poster Viewing (30 min.)	
12:30	LUNCH (1 hr. 15 min.)	

1:45	Reconstructing late-Quaternary surface profiles of Reedy Glacier, Antarctica – 1 [PPT]	Bromley
2:00	Reconstructing late-Quaternary surface profiles of Reedy Glacier, Antarctica – 2 [Abstract] [PPT]	Todd
2:15	Apparent changes in the WAIS surface elevation, 2003–2004 [Abstract] [PPT]	B. Smith
2:30	Better Physics in Embedded Models [Abstract] [PPT]	Fastook
2:45	Discussion of Question #3 (30 min.)	PLENARY
3:15	BREAK (30 min.)	
	Question #4. "Minutes to Millennia" – What time scales are most important in assessing the different influences on ice-stream motion?	
3:45	Does the Siple Dome Ice Core Provide Evidence of Abrupt Changes in Siple Coast Ice Dynamics? [Abstract] [PPT]	Taylor
4:00	When Buttressing Matters: a sensitivity study [Abstract] [PDF]	Dupont
4:15	Tidal Modulation of Siple Coast Ice Stream Flow [Abstract] [PPT]	Bindschadler
4:30	Seismicity and slip of Whillans Ice Stream driven by neap- to spring-tide cycles [Abstract] [PDF]	Anandakrishnan
4:45	Passive Seismic Observations of Ice Stream Motion Near the Siple Coast Grounding Line [Abstract] [PDF]	Winberry
5:00	Is Anomalous Vertical Motion in WAIS Ice Streams Linked to Subglacial Water Transport? [Abstract] [PPT]	Gray
5:15	Discussion of Question #4 (30 min.)	PLENARY
5:45	Poster Viewing (30 min.)	
6:15	DINNER	
Saturday, October 2, 2004		
8:00	CONTINENTAL BREAKFAST	
	Ten+ Years of WAIS Accomplishments	

8:30	Atmosphere [PPT]	Bromwich
8:45	A Decade of Frontier Oceanography: Achievements during WAIS [Abstract] [PPT]	Holland
9:00	Geological record of WAIS Ice Stream History and Behavior: Ten Years of Marine Geological Research [PPT]	Anderson
9:15	Terrestrial Geology [PDF]	Stone
9:30	Ice Cores [PPT]	Steig
9:45	Ice Dynamics [PPT]	Alley
10:00	Biology [PPT]	Berkman
10:15	Remote Sensing [PPT]	Joughin
10:30	BREAK (30 min.)	
11:00	Comments by Invited Guests	Gray Thomas
11:45	WAIS Program: Activities, Actions and Needs	Bindschadler
12:00	Adjourn	
	Posters	
	Phase structure of radar stratigraphic horizons within Antarctic firn [Abstract]	Arcone
	Changes in circulation, water mass distribution and ice shelf basal melting in the Ross Sea due to the presence of large icebergs [Abstract]	Assmann
	Are Rifts Brittle Fractures? [Abstract]	Bassis
	The AMPS archive: A resource for the Antarctic research community [Abstract]	Bromwich
	Thickness changes on Whillans and Kamb Ice Streams from airborne laser altimetry and ICESat measurements [Abstract]	Csatho
	Looking into ice shelf rifts with GLAS [Abstract] [JPEG]	Fricker
	LGM Ice Surface Elevations along the Transantarctic Mountains Front [Abstract]	Hall

	Spatial Patterns of mass balance of the Siple Coast and Amundsen Sea Basin, West Antarctica [Abstract]	Hamilton
	Seismic stratigraphy of the Ross Island flexural moat under the McMurdo–Ross Ice Shelf, Antarctica – A prognosis for ANDRILL drilling [Abstract]	Horgan
	Description of the deformation till and reconstructed subglacial environments of the East Antarctic Ice sheet during the LGM at Skarvsnes, Lutzow–Holm Bay [Abstract]	Iwasaki
	The near–surface signature of flow bands in the onset regions of Ice Streams C1b and D1, based on grids of GPR data [Abstract]	King
	Spatial and Temporal Variation of the Characteristic Time Scale of Microwave Emission with Snow Properties over Antarctica [Abstract] [PPT]	Koenig
	West Antarctic Balance Fluxes: Impact of smoothing, algorithm and topography [Abstract]	LeBrocq
	Ice flow property derived from ICESat surface topography in West Antarctica [Abstract]	Li
	Towards radar thermometry: an effective absorption temperature at Siple Dome [Abstract]	MacGregor
	Spatial variability of stable isotope ratios in snow: How representative are ice cores? [Abstract]	Neumann
	Insights into WAIS and GIS dynamics: Summary of modeling results [Abstract]	Parizek
	Modelling the evolution of ice streams [Abstract] [PPT]	Payne
	A Dilatant Till Layer Near the Onset Region of Bindschadler Ice Stream: Implications for the Onset of Streaming Ice Flow [Abstract]	Peters
	Depth–age and annual layer–thickness scales for Siple Dome, West Antarctica: measurements versus predictions from ice–flow modeling [Abstract]	Price
	Accelerating glacier flow on the warming Antarctic Peninsula [Abstract]	Pritchard
	Institute Ice Stream: An analog to the Ross Embayment ice streams in the Ronne drainage [Abstract]	Scambos
	Ice core evidence of 200 years of Antarctic climate change and its connections with the Southern Annular Mode [Abstract]	Schneider
	"Clearing Up" ICESat Data over West Antarctica [Abstract]	Shuman
	Lake Ellsworth: a candidate for Antarctic subglacial lake exploration [Abstract] [PDF]	Siegert
	Ice stream onset regions, shear margins and basal conditions: Observations from Rutford Ice Stream [Abstract] [PDF]	A. Smith
	RABID: Drilling to the bed of Rutford Ice Stream, 2004/05 [Abstract] [PDF]	A. Smith

	Characterizing surface textures on the West Antarctic Ice Sheet [Abstract] [PPT]	B. Smith
	Tracking an Ice-ochrone [Abstract]	Spikes
	Relating Radarsat SAR backscatter variations to ice sheet surface conditions along the US ITASE Traverse [Abstract]	L. Stearns
	High-resolution ice cores from US ITASE (West Antarctica): development and validation of chronologies and determination of precision and accuracy [Abstract]	Steig
	Deglaciation of the southern Ellsworth Mountains, Weddell Sea Sector of the West Antarctic Ice Sheet [Abstract]	Todd
	Magnetic properties of West Antarctic sediment [Abstract]	Vogel
	New radar layers at Siple Dome and Engelhardt Ice Ridge? [Abstract]	Winebrenner

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