

PMIP Ocean Workshop 2013 Program
Outline

We, Dec. 4

8:30-9:15 Introductory Discussion
9:15-10:15 Model-Data Comparison
coffee
10:30-12:00 Quantifying Uncertainties
lunch
1:00-2:30 LGM and Deglacial Changes in the Tropics
coffee
2:45-4:15 LGM and Deglacial Changes in the Tropics
4:15-5:30 Breakout Groups

Th, Dec. 5

8:30-10:05 LGM Atlantic
coffee
10:20-12:00 LGM and Deglacial Changes in Radiocarbon
lunch
1:00-2:35 LGM and Deglacial Changes in Stable Isotopes and Carbon Cycle
coffee
2:50-4:20 LGM and Deglacial Changes in Stable Isotopes and Carbon Cycle
4:20-5:30 Breakout Groups

Fr, Dec. 6

8:30-10:00 Warm Periods
coffee
10:15-11:15 Databases
11:15-12:00 Breakout Groups
lunch
1:00-3:00 Breakout Groups
coffee
3:15-4:00 Final Plenary Discussion

PMIP Ocean Workshop 2013 Program, **Wednesday Dec. 4, 2013**

8:30-8:35		Welcome and Introduction
8:35-9:15	Discussion	Meeting outcomes, groups, organizational structure, future of paleoceanogr. and PMIP
		Model - Data Comparison
9:15-9:30	Paul, A.	What does a quantitative and "intelligent" model-data comparison mean?
9:30-9:45	Schmittner, A.	Offline modeling of biogeochemical tracers and isotopes
9:45-10:00	Urban, N.	Bayesian uncertainty quantification
10:00-10:15	Discussion	
10:15-10:30	Break	
		Quantifying Uncertainties
10:30-10:45	Ho, S.L.	Towards quantifying uncertainties in sea surface temperature proxies (UK'37, TEX86, Mg/Ca of foraminifera)
10:45-11:00	Khider, D.	Quantifying uncertainties in Globigerinoides ruber Mg/Ca paleothermometry
11:00-11:15	Kucera, M.	What kind of temperature is recorded in the composition of planktonic foraminifera assemblages?
11:15-11:30	Roy, T.	Effect of habitat variability on the climate signal recorded by marine temperature proxies
11:30-11:45	Bauch, H.	Relationship between surface $\delta^{13}\text{C}$ in fossil calcite and past surface ocean properties
11:45-12:00	Discussion	
12:00-1:00	Lunch	
		LGM and Deglacial Changes in the Tropics
1:00-1:15	Lea, D.W.	Report from Tropical SST meeting
1:15-1:30	de Garidel-Thoron, T.	Reevaluating last glacial tropical temperatures: updating MARGO
1:30-1:45	Kienast, M.	The glacial tropical Pacific: A synthesis of proxy reconstructions
1:45-2:00	Chen, M.-T.	Western Tropical Pacific Temperature Changes During the Past 21,000 Years: Regional Time-Slice and Time Series Syntheses
2:00-2:30	Discussion	
2:30-2:45	Break	
2:45-3:00	Lea, D.W.	The thermal and hydrological response of the tropical Indian Ocean during the LGM and deglaciation
3:00-3:15	DiNezio, P.	The effect of sealevel on Indian Ocean circulation and climate during the LGM
3:15-3:30	Kessarkar, P.M.	Paleoclimatic Changes Recorded in the Sediment Cores from the Eastern Arabian Sea
3:30-3:45	Wainer, I.	A numerical study of the impact of meltwater pulses of polar origin on the Western Indian Ocean circulation since the Last Glacial Maximum
3:45-4:15	Chiessi, C.M.	Where has all the heat gone? Millennial-scale variability of the Brazil/North Brazil Currents during the last deglaciation
4:15-5:30	Breakout Groups	

PMIP Ocean Workshop 2013 Program, **Thursday Dec. 5, 2013**

LGM Atlantic

- 8:30-8:45 Gong, X. Dynamical perspective of proxy-indicated extreme sea-surface conditions in the Nordic Seas during the Last Glacial Maximum
- 8:45-9:00 Gebbie, G. How much did Glacial North Atlantic Water shoal?: Analysis of an LGM model constrained by observations
- 9:00-9:15 Ullman, D.J. Variability in glacial Atlantic meridional overturning circulation in response to Laurentide Ice-Sheet topographic uncertainty
- 9:15-9:30 Zhang, X. removed Different ocean states and transient characteristic in LGM simulations and implications for deglaciation
- 9:30-9:45 Abe-Ouchi, A. Southern Ocean as a key for understanding modelling uncertainties in simulating the Glacial AMOC
- 9:45-10:05 **Discussion**
- 10:05-10:20 **Break**

LGM and Deglacial Radiocarbon

- 10:20-10:35 Burke, A. Radiocarbon and Overturning Circulation in the Glacial Southern Ocean
- 10:35-10:50 Rea, J.W.B. Glacial-interglacial changes in ocean carbon chemistry, constrained by boron isotopes, radiocarbon, trace elements, and modelling
- 10:50-11:05 Skinner, L.C. Emerging constraints on ocean 'ventilation' changes since the last glacial period: implications for marine carbon cycling and the deglacial process
- 11:05-11:20 Sarnthein, M. Deglacial ^{14}C plateau suites recalibrated by Suigetsu atmospheric ^{14}C record – Revised ^{14}C reservoir ages from three ocean basins corroborate extreme surface water variations
- 11:20-11:35 Lisiecki, L.E. Improving paleoceanographic chronologies of the last 40 kyr: ^{14}C -dated regional $\delta^{18}\text{O}$ stacks and North Atlantic reservoir ages
- 11:35-12:00 **Discussion**
- 12:00-1:00 **Lunch**

LGM and Deglacial Stable Isotopes and Carbon Cycle

- 1:00-1:15 Zhang, J. Simulating $\delta^{18}\text{O}$ in CESM ocean model and its application to understanding meltwater events during Last Deglaciation
- 1:15-1:30 Ziemen, F. Coupled ice sheet – climate modeling of the LGM and the deglaciation
- 1:30-1:45 Peterson, C.D. Deglacial whole-ocean $\delta^{13}\text{C}$ change estimated from 480 benthic foraminiferal records
- 1:45-2:00 Oliver, K. Mechanisms of glacial-interglacial CO_2 change examined by model-data comparison of an LGM hypercube ensemble
- 2:00-2:15 Oka, A. Vector diagram analysis of ocean carbon pumps during the Last Glacial Maximum
- 2:15-2:35 **Discussion**
- 2:35-2:50 **Break**
- 2:50-3:05 Marcott, S. High Resolution CO_2 Reconstructions from the WAIS Divide Ice Core
- 3:05-3:20 Gregory, J. The last glacial cycle: transient simulations with an AOGCM
- 3:20-3:35 Kageyama, M. Comparing Earth System Model results to oceanic data for the Last Glacial Maximum: new possibilities with the IPSL_CM5 model
- 3:35-3:50 Dutay, J.-C. Evaluation of modelled past ocean circulation with Neodymium Isotopic composition simulations
- 3:50-4:05 Jahn, A. Carbon isotopes in the ocean model of the CESM
- 4:05-5:00 **Discussion & Breakout Groups**
- 6:30 **Conference Dinner** @ McMenamins 2001 NW Monroe Ave

PMIP Ocean Workshop 2013 Program, **Friday Dec. 6, 2013**

Warm Periods

- 8:30-8:45 An, S.-I. Mid-Holocene Tropical Pacific Climate State, Annual Cycle, and ENSO in PMIP2 and PMIP3
8:45-9:00 Harrison, S.P. Can we ever hope to use MH SSTs for model evaluation?
9:00-9:15 Prado, L.F. The equatorial sea surface temperature variability during the last millennium
9:15-9:30 Justino, F. Effect of early Miocene Antarctic Ice Sheet on atmospheric and oceanic circulations

9:30-10:00 **Discussion**

10:00-10:15 **Break**

Databases

- 10:15-10:30 Bolliet, T. Water Isotope Database: present and past archives
10:30-10:45 Muliza, S. A GUI-based synthesis toolbox for the collection, homogenization and visualization of foraminiferal stable isotope data

10:45-11:15 **Discussion**

11:15-12:00 **Breakout Groups**

12:00-1:00 **Lunch**

1:00-3:00 **Breakout Groups**

3:00-3:15 **Break**

3:15-4:00 **Final Plenary Discussion**

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PMIP Ocean Workshop 2013 Program DRAFT

Posters

- Buizert, C. Greenland temperature response to climate forcing during the last deglaciation
The evolution of the Atlantic Ocean's thermohaline structure triggered by the a meltwater pulse in a transient simulation study
- Marson, J.M. Comparison of late Quaternary productivity variation in two contrasting basins of northern Indian Ocean using geochemical proxies
- Mir, I.A. Ocean Circulation During the Last Glacial Maximum Simulated by PMIP3 Climate Models
- Muglia, J. Climate response to changes in orbital forcing around the first Pliocene Time Slice
- Prescott, C. North Atlantic circulation and radiocarbon reservoir ages
- Stern, J. The Labrador Sea at the Last Glacial Maximum
- Winsor, K. Analysis of the ENSO stability in the mid-Holocene simulations of PMIP models
- Zheng, W.