

CESM Paleoclimate Working Group
28 January – 2 March 2018
National Center for Atmospheric Research – Boulder, Colorado
University of Texas – Austin, TX

Remote Access:

ZOOM link: <https://zoom.us/j/992255618>

Please note that all times have been converted to Mountain Standard Time

Wednesday, 28 February – Fleischmann Building

- 12:00 Welcome. Local and remote logistics for the meeting
12:20 Welcome from Terry Quinn, Director of the UT Institute for Geophysics

CESM

- 12:30 Overview of CESM2 (remote) Gokhan Danabasoglu
12:50 Updates from NCAR and plans for CMIP6/PMIP4 simulations with CESM2 Esther Brady

Last Millennium

- 1:20 The Last Millennium ensemble solar forcing experiments: Results from preliminary analyses (remote) Robert Tomas
1:40 Volcanic forcing experiments (remote) Allegra LeGrande
2:00 Discussion: Data sharing (remote) Nicholas Heavens

Deep time

- 3:00 Sensitivity of climate change PETM to greenhouse gas radiative forcing Arne Winguth
3:20 Warm water upwelling in the Cenozoic Era Yige Zhang
3:40 Discussion: What are the important hypotheses to test for deep time and modeling strategies to develop especially for biogeochemistry/carbon cycle, anoxic events, etc.

Thursday, 1 March – Main Seminar Room

Variability

- 8:30 Processes affecting ENSO characteristics Martin Puy
8:50 ENSO variability from corals over last millennia Allison Lawman
9:10 An El Nino mode in the Indian Ocean during the Last Glacial Maximum (remote) Kaustubh Thirumalai
9:30 Atmospheric ventilation of the glacial North American Monsoon in proxies and models (remote) Tripti Bhattacharya
9:50 Discussion: (possible) missing power multi-decadal and longer time scales

LGM / Abrupt Climate Change

- 12:30 Multi-equilibria in single column models of the tropical atmosphere Ben Stephens
12:50 Observed tropical response to Heinrich events T. Sun / P. DiNezio

Isotopes / proxy system models

- 1:10 Investigating the direct meltwater effect in terrestrial the $\delta^{18}O$ records using the iCESM (remote) Jiang Zhu
1:30 Discussion: Idealized configurations
2:30 How hot was Africa during the mid-Holocene? Sylvia Dee
2:50 Proxy view tropical hydroclimate Jud Partin
3:10 Interpretation of Texas isotopes Chijun Sun
3:30 Discussion: Proxy system models

Friday, 2 March – Main Seminar Room

Sea Level

- | | | |
|------|--|---------------------|
| 8:30 | Configuration and sea level contribution from the Antarctic Ice Sheet during the Last Interglacial | Gail Muldoon |
| 8:50 | CESM-CISM LIG simulations (remote) | Bette Otto-Bliesner |
| 9:10 | A transient fully coupled climate – ice-sheet simulation of the last glacial inception (remote) | Marcus Lofverstrom |
| 9:20 | Discussion: Challenges in ice sheet modeling | |