

PAOGES

PAST GLOBAL CHANGES

Coordinating paleoscience for a sustainable future

PALSEA and the WCRP sea level conference 2022.

PALSEA (PALEo constraints on SEA level rise) group is interested in understanding the physical processes involved in ice sheet collapse and its solid earth response.

A Webinar Series on Ice Sheets, Sea Level, and GIA was held prior to the conference and included organizers from WCRP Sea Level Grand Challenges.

Bringing observational scientists and ice-sheet, climate, and sea-level modelers together

A number of PALSEA scientists take part in both events, believing that it's beneficial for the two communities to interact and learn from each other.

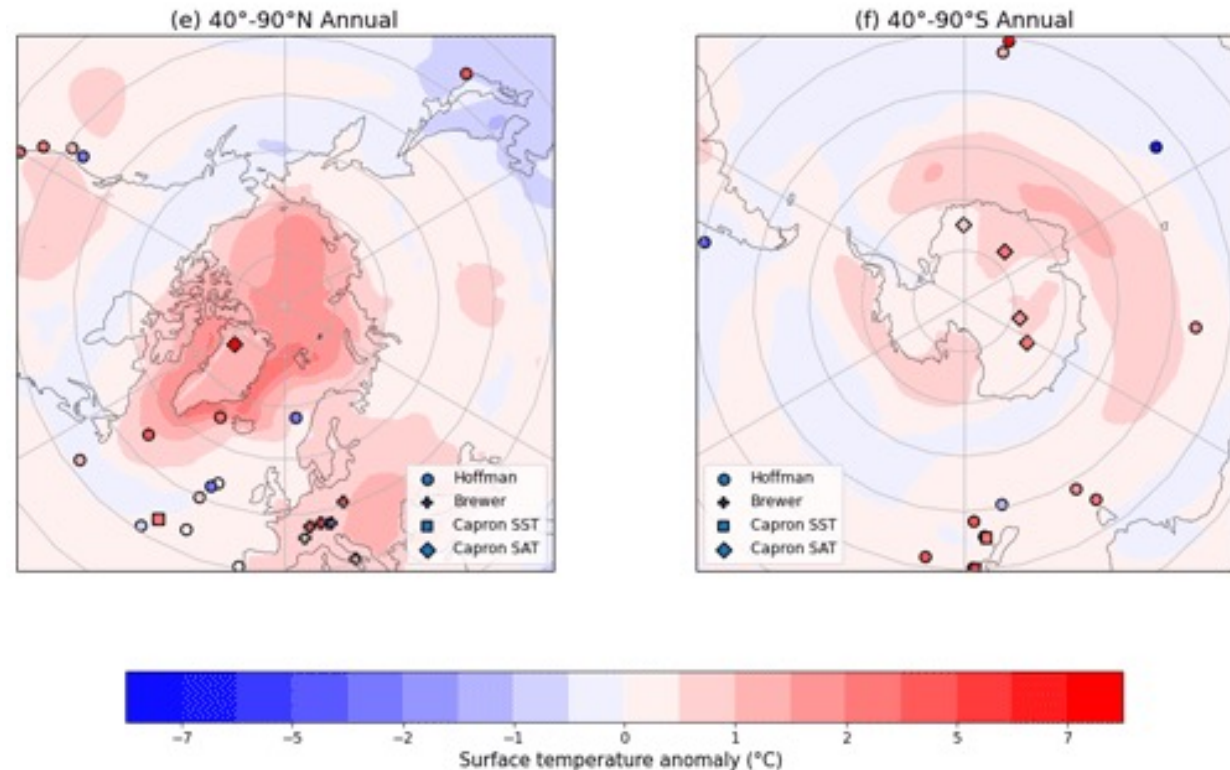
Photo: field visit to coral microatolls marking the pre-industrial sea-level position in Singapore



PAGES-PMIP Working Group on Quaternary Interglacials

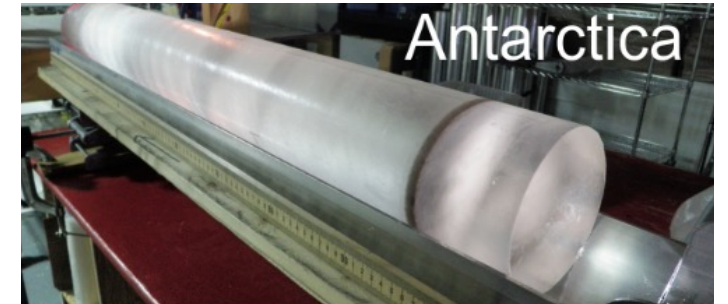
Hand in hand with the PMIP group on Last Interglacial experiments

- To examine the structure and duration of interglacials of the 41kyr-world, with new proxy records and modelling results (shape, duration, and intensity).
- To assess hypotheses for the Mid-Pleistocene Transition (MPT).



Other PAGES-PMIP interactions

- **2k Network** engaged with **PMIP** through the development of Phase 4
- **CVAS** developing spectral tuning targets for climate models using paleoclimate archives and plans to engage with the **PMIP** modeling community
- **PlioMioVar** is connected to **PlioMIP** and **DeepMIP** and **MioMIP**
- **VICS** is connected to the **VolMIP** and **PMIP** initiatives, and the Stratosphere-troposphere processes and their Role in Climate (**SPARC**) core project



WCRP open science conference 2023

PC 04: What was the climate like in the past?
What does this tell us about the future?



PAGES within WCRP

Lighthouse activities

Digital Earths: Data assimilation for climate

Safe Landing Climates Lighthouse:

tipping points and high-impact events;
sea-level rise (PALSEA)

WCRP Academy: happy to share PAGES activities

Core projects

Climate and Cryosphere (CliC): ACME - Arctic Cryosphere Change and Coastal Marine Ecosystems; C-SIDE - Cycles of Sea-Ice Dynamics in the Earth system

Climate and Ocean Variability, Predictability and Change (CLIVAR): CVAS-Climate Variability Across Scales

Earth System Modelling and Observations (ESMO): PMIP has connection with several PAGES working groups



Scientific Partnership

PAGES and WCRP have had a formal agreement in place since 2014, which has since lapsed for more than a year.

We are looking forward to the opportunity to renew this important partnership!





International Symposium on Past Global Changes: Lessons for a Sustainable Future

Thursday, 1 June 2023
University of Bern, Switzerland

