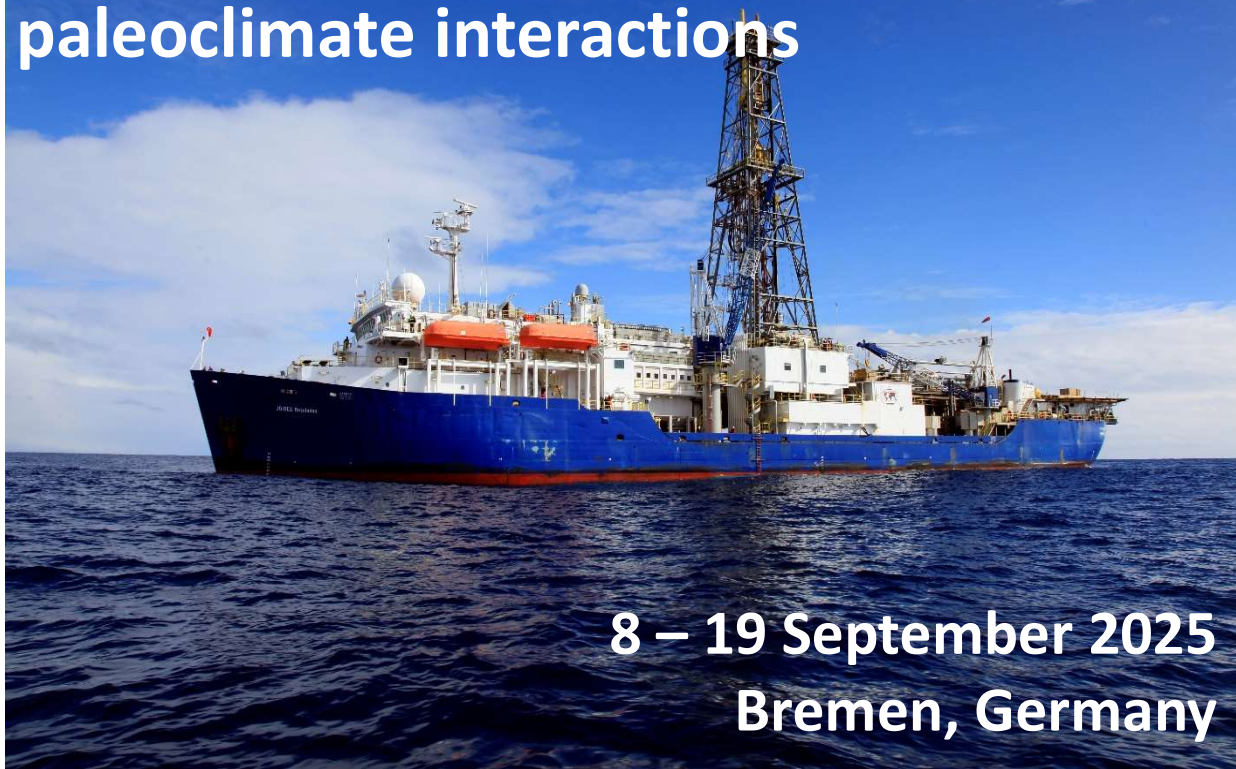


Southern Ocean – Antarctic paleoclimate interactions



8 – 19 September 2025
Bremen, Germany

Lecturers:

Dimitris Evangelinos (Imperial College London)
Marcus Gutjahr (GEOMAR, Kiel)
Alex Haumann (LMU Munich)
Sam Jaccard (Univ. of Lausanne)
Andrea Jaeschke (Univ. of Bonn)
Julia Gottschalk (Univ. of Kiel)
Claus-Dieter Hillenbrandt (BAS, Cambridge)
Frank Lamy (AWI Bremerhaven)
Gerrit Lohmann (AWI Bremerhaven)
Andrew Mackintosh (Monash University)
Alfredo Martinez-Garcia (MPI Mainz)
Katharina Pahnke (Univ. of Oldenburg)
Ursula Röhl (MARUM Bremen)
Thomas Westerhold (MARUM Bremen)
Gisela Winckler (LDGO New York)
and others ...

Venue:

MARUM – Center for Marine
Environmental Sciences



at the
BCR -

Bremen Core Repository



University of Bremen
Germany

The Topic

The Southern Ocean and Antarctic ice sheet stability play a critical role for global ocean circulation, climate, the marine carbon cycle and global sea level. A major feature is the Antarctic Circumpolar Current (ACC) as the world's largest ocean current system. The ACC connects all three major basins of the global ocean and therefore integrates, and responds to, climate signals throughout the globe. While reconstructions of southern, high-latitude paleoclimate are still sparse, recent years have seen much progress, including a multitude of land and sea-based coring efforts, key IODP expeditions and work on legacy sediment cores. These studies suggest for example regional heterogeneity in ACC position and strength over the Pleistocene glacial-interglacial cycles, while the long-term evolution of the ACC is still comparatively poorly known. Recent IODP expeditions in the sub-antarctic South Pacific allowed to reconstruct ACC changes over the past five million years, showing strong ~400,000-year eccentricity cycles, likely originating from modulation of precessional changes linked to tropical Pacific temperature variability.

The School

This summer school will combine lab exercises on ocean drilling shipboard methodologies ("**shipboard simulation**") as well as interactive lectures by world-leading scientists in the field of Antarctic paleoclimate. Participation will prepare you for future scientific drilling projects at sea or on land as well as for research on paleoclimate interactions. The summer school will take advantage of the unique and integrated core-laboratories facilities offered by the **Bremen Core Repository** and the **MARUM**.

Registration

To apply, please visit the course web page given below. A total of 30 participants can be accepted. The course fee is **€150**. Accommodation, travel, and meals must be covered by the participants.

The application deadline is **15 May 2025**.

Scholarships

ECORD provides scholarships for students from ECORD member countries to attend ECORD summer schools. Applicants from other member countries may check with their national ocean drilling program offices regarding potential support. Applications should be sent to the ESSAC Office. Please, see how to apply for an ECORD Scholarship following this link under 'Get a Scholarship': <https://www.ecord.org/education/> (deadline: March 6, 2025)



Photo credit: Volker Diekamp, MARUM and BRC

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