

Past ocean currents and their effects on sedimentation and benthic ecosystems



Photo Credit: Carol Cotteril, ECORD

7 – 18 September 2026
Bremen, Germany

Potential lecturers (not all asked yet):

Arianna del Gaudio, Münster, Germany
Emmanuelle Ducassou, Bordeaux, France
David de Vleeschouwer, Münster, Germany
Joris Eggenhuisen, Utrecht, Netherlands
Dierk Hebbeln, Bremen, Germany
F. Javier Hernández-Molina, Granada, Spain
Heiko Hüneke, Greifswald, Germany
Frank Lamy, Bremerhaven, Germany
Elda Miramontes, Bremen, Germany
Stefan Mulitza, Bremen, Germany
Francisco J. Rodríguez Tovar, Granada, Spain
Ursula Röhl, Bremen, Germany
Gabriele Uenzelmann-Neben, Bremerhaven,
Thomas Westerhold, Bremen, Germany
David van Rooij, Ghent, Belgium
and others ...

Venue:

MARUM – Center for Marine
Environmental Sciences



at the
BCR -

Bremen Core Repository



University of Bremen
Germany

The Topic

Ocean currents flowing near the seafloor strongly control the transport and accumulation of sediments, nutrients, organic carbon and pollutants at the seafloor. They shape the seafloor forming sedimentary deposits named contourites and, in some areas, favour the development of particular benthic organisms, such as cold-water corals. Contourites preserve high-resolution archives of deep-ocean circulation and its links to climate. Therefore, they have been the target of several scientific ocean drilling expeditions. Drilling contourite drifts constrains the strength and pathways of boundary currents over glacial–interglacial to longer timescales, improves models of ocean ventilation and heat/salt budgets, and quantifies along-margin sediment transport and carbon burial. Their physical properties help assess geohazards related to bedform migration and to slope instability. Because contourites occur on many continental slopes worldwide, they enable cross-basin comparisons of past circulation reorganizations, directly advancing IODP³ goals on past climate and ocean change.

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 contourite research. Participation will prepare you for future scientific drilling projects at sea or on land as well as for research on paleoceanographic topics. 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 Summer School web page given below. A total of 30 participants can be accepted. The course fee is **€180**. Accommodation, travel, and meals must be covered by the participants. The application deadline is **17 May 2026**.

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 info coming soon)



Photo credit: Volker Diekamp, MARUM and BRC

marum.de/ECORDSummerSchools