



CBEP 12

Circular

12th International Conference on Climatic and Biotic Events of the Paleogene (CBEP12)

Bremen, Germany

22 – 25 August 2022

www.marum.de/CBEP12

Registration

starting 21 March 2022

Abstract submission

21 March to 10 June 2022

From Land to Sea

We welcome you cordially to Bremen, a charming modern city with a touch of hanseatic flair located at the banks of the Weser river, close to the North Sea coast.

CBEP12 will provide a multidisciplinary stage for exciting scientific contributions, hot discussions, and new concepts to explore the climate and biota of the Paleogene. The Paleogene Period was a time of extremes and transitions, characterized by climatic conditions largely unfamiliar to us today but saw the rise of essentially modern continental configurations, biotic communities, and biogeochemical regimes.

We welcome you to participate and are looking forward meeting you in Bremen in late August 2022!

Venue CBEP12

The International Conference „Climatic and Biotic Events of the Paleogene (CBEP) 2022” will take place in Bremen, Germany, **at the University Bremen (GW1 Hörsaalgebäude (HS), Universitätsallee, 53°06'21.4"N 8°50'39.2"E).**

‘GW1+HS’ in the Campus map: www.uni-bremen.de/fileadmin/user_upload/universitaet/lageplan/20210415_Lageplan_Legende_Uni_Bremen.pdf



Credit: U. Röhl/MARUM

Directly connected to the airport Bremen, the venue is just 5 km north of the historic center with nearby accommodation and excellent transportation connections to all sites of importance and features of interest.

Registration / Accommodation

Registration at standard rates is possible from 21st March until 1st August 2022. Please register online at the CBEP12 website marum.de/cbep12.



Credit: Ingrid Krause / BTZ Bremer Touristik-Zentrale

A discount on the registration fee will be available during Early Bird registration from 21 March through 17 June. Bremen offers an extensive range in accommodation like Hotels, Pensions, and Bed & Breakfast across town. Participants are urged to **book accommodation early** as demand for accommodation in Bremen for the summer is expected to be high again. For a list of recommended accommodations see the CBEP12 webpage.

Public transport is convenient and will take you to the venue easily (~35 minutes from the airport, 15 minutes from the central station). We recommend to book a 7-dayticket from the BSAG public transportation company.

Conference Format

CBEP12 is intended to be an on-site meeting in Bremen, with one plenary session, keynote lectures and poster sessions. Depending on the general situation at the time of the meeting and subject to potential travel restrictions and pandemic measures, we will provide a virtual component that consists of a live stream of all plenary talks.

Covid-19 Information

To comply with covid-19 regulations at the time of the meeting please make sure to check the situation, for example 'Current information for travelers':

www.bundesgesundheitsministerium.de/en/service/gesetze-und-verordnungen/guv-19-lp/coronavirus-einreiseverordnung.html

and 'Corona measures at the University': www.uni-bremen.de/en/information-on-the-corona-pandemic .

Social Events

Please check for details on social, cultural, and historical attractions in Bremen [here](https://www.bremen-tourism.de) <https://www.bremen-tourism.de>.

For the conference a range of events are planned including a Group Dinner, guided City Tour, Craft Beer Brewery Tour, Tour to the *Bremer Ratskeller* (Wine Cellar, since 1405 AD). Most locations have limited access and therefore require early registration! For details and updates please check marum.de/CBEP12.

Field trips

The following pre-meeting and post-meeting field trips will be organized for CBEP12:

North Sea Island Helgoland

(*Torsten Bickert*) – One Full Day
 21 August 2022 (Sunday)

Visit the rocky offshore island of Helgoland. Situated on the NE flank of a salt dome of Zechstein evaporites, the main island together with its smaller part, the Dune, allows to study the Mesozoic to Quaternary sedimentary and structural development of the SE North Sea region. A review on historic studies combined with new aspects on the facies and mineralogy of Triassic *Buntsandstein* deposits will be presented on the famous western cliff of

Helgoland towards the Lange Anna, complemented by a short inspection of the mineral and fossil collections of the local museum.



Credit: T. Bickert/MARUM

Spiekeroog: Geology, Sedimentology and Aktuopaleontology of a Barrier Island

(*Alexander Bartholomä*) – One Full Day
 26 August 2022 (Friday)

The full day excursion will give insight into the Holocene evolution of the Wadden Sea and its principle (bio-)sedimentary processes following a transect from the backbarrier tidal flats to the salt marshes and eolian dunes ending at the seaward-exposed beach of the island.



Credit: A. Wehrmann/Senckenberg

Classic Upper Jurassic to Paleogene sections of southern Lower Saxony

(*Jochen Erbacher*) – Two Full Days

26-27 August 2022 (Saturday/Sunday)

Visit a couple of classic outcrops that are representing the sedimentary succession in the Jurassic to Neogene epicontinental Lower Saxony Basin (LSB). The LSB is a sub-basin of the Southern Permian Basin. Its evolution is strongly influenced by the opening of the North Atlantic during the Jurassic and by successive salt diapirs resulting in a complex paleo-morphology with submarine swells, islands and local basins. The outcrops visited show Jurassic to Miocene sedimentary rocks such as carbonates, sands, clays and coals.



Credit: J. Erbacher/BGR

Participants of the field trip will receive a concise and representative overview of the Jurassic to Neogene succession in a marginal setting of the Southern Permian Basin, including some aspects of German fairy tales, history and beer.

Field trip participation is limited, **book early!**
 For details check marum.de/CBEP12.

Scientific Sessions

Theme 1: Habitable Planet: Learning from Past Environments

(*Pincelli Hull, Steve Bohaty*)

Session 1.1: Planetary States and State Changes

Session 1.2: Resilience and Adaptation (and sometimes not)

Theme 2: Trends and rhythms in Climate, Paleocology and Paleodiversity

(*Claudia Agnini, Laia Alegret, Matt Huber*)

Session 2.1: Lessons from the "boring background": How orbital-scale and longterm changes in climate and environment affect past ecosystems?

Session 2.2: Abrupt climate upheavals: Patterns, magnitudes and rates in the response of the biosphere

Theme 3: Biogeochemical Cycles

(*Bernard Boudreau, Sandra Kirtland Turner*)

Session 3.1: CaCO₃ Production, Dissolution and Accumulation over the Paleogene

Session 3.2: Reconstruction of atmospheric greenhouse gas concentrations from the late Cretaceous through the Oligocene

Theme 4: Tectonics, Surface Environments and Hydrological Processes

(*Edoardo Dallanave, Pete Lippert*)

Session 4.1: Source-to-sink sedimentation during warm intervals of the Paleogene

Session 4.2: Impact of paleogeography on our understanding of Paleogene climate records

Theme 5: New ways forward to access climate processes – advances in proxy development

(Ellen Thomas, James C. Zachos)

Session 5.1: Paleoproxies: New Developments and Applications

Session 5.2: Proxies for Earth Surface Temperatures and pCO₂

OPEN Themes

(Appy Sluijs)

Session 6.1: Think outside the box

Keynote lectures

Gordon Inglis (School of Ocean and Earth Science, University of Southampton, UK)

Bärbel Hönlisch (Lamont-Doherty Earth Observatory, Columbia University, USA)

Brian Romans (Virginia Tech University, USA)

Claudia Agnini (Padua University, Italy)

Call for Workshops

If you want to get together with current or new collaborators for workshops during CBEP12, we offer space and time.

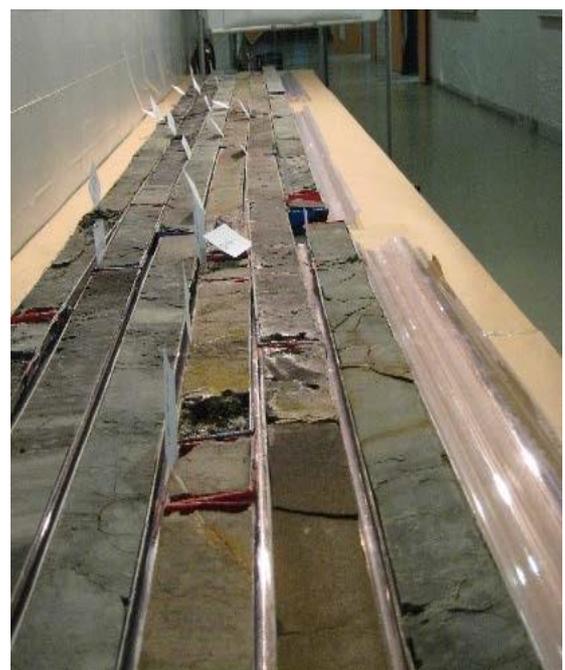
The **afternoon of Wed, 24 Aug 2022**, would provide opportunities to gather in smaller groups for discussing ongoing matters or planning future initiatives.

Located at MARUM – Center for Marine Environmental Sciences of the University of Bremen, the **IODP Bremen Core Repository (BCR)** holds sediment cores from over 90 expeditions. The Bremen Core Repository is also the home of the Bighorn Basin Coring Project (**BBCP**) cores. Explore beyond the Paleogene at CBEP12 and consider a workshop!



Credit: V. Diekamp/MARUM

Please tell us as soon as possible (but no later than 17 June 2022) if you plan to organize a small workshop and for how many participants you anticipate to design it!



BBCP cores @MARUM (Credit: U. Röhl/MARUM)

Important dates, deadlines, and registration fee

10 June 2022

Deadline for abstract submission

21 Mar to 17 June 2022

Early bird registration (€300.-)

18 June to 1 Aug 2022

Regular online registration (€350.-)

After 1 August and on-site online registration

Increased Conference fee (€400.-)



Credit: Universität Bremen

Contact Us

Any questions or comments? Please get in touch with us!

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