

10th Bremen PhD Days in Marine Sciences

PhD Days 2017



Program guide

Schloss Etelsen, April 4-5, 2017

Organized by:



Bremen International Graduate School
for Marine Sciences

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Welcome

We would like to wish all participants a warm welcome to the **2017 Bremen PhD Days in Marine Sciences** held in Schloss Etelsen. This meeting is jointly organized by the GLOMAR office and the MARUM/GLOMAR PhD representatives.

It is the purpose of the **PhD Days** to provide an excellent platform for:

- Presenting your own research in a casual and relaxed environment from which you can supply and receive feedback
- Learn about the large variety of cutting edge marine realm science being conducted by PhD students in and around Bremen
- Further developing a network between institutes and finding contact persons/institutes for interdisciplinary questions around your own project interests.
- Having a good time in a friendly atmosphere in which to develop an enjoyable working community.

If you would like to receive more information please visit:

www.marum.de/en/GLOMAR

If you have a specific question please contact:

phdrepresentatives@lists.marum.de

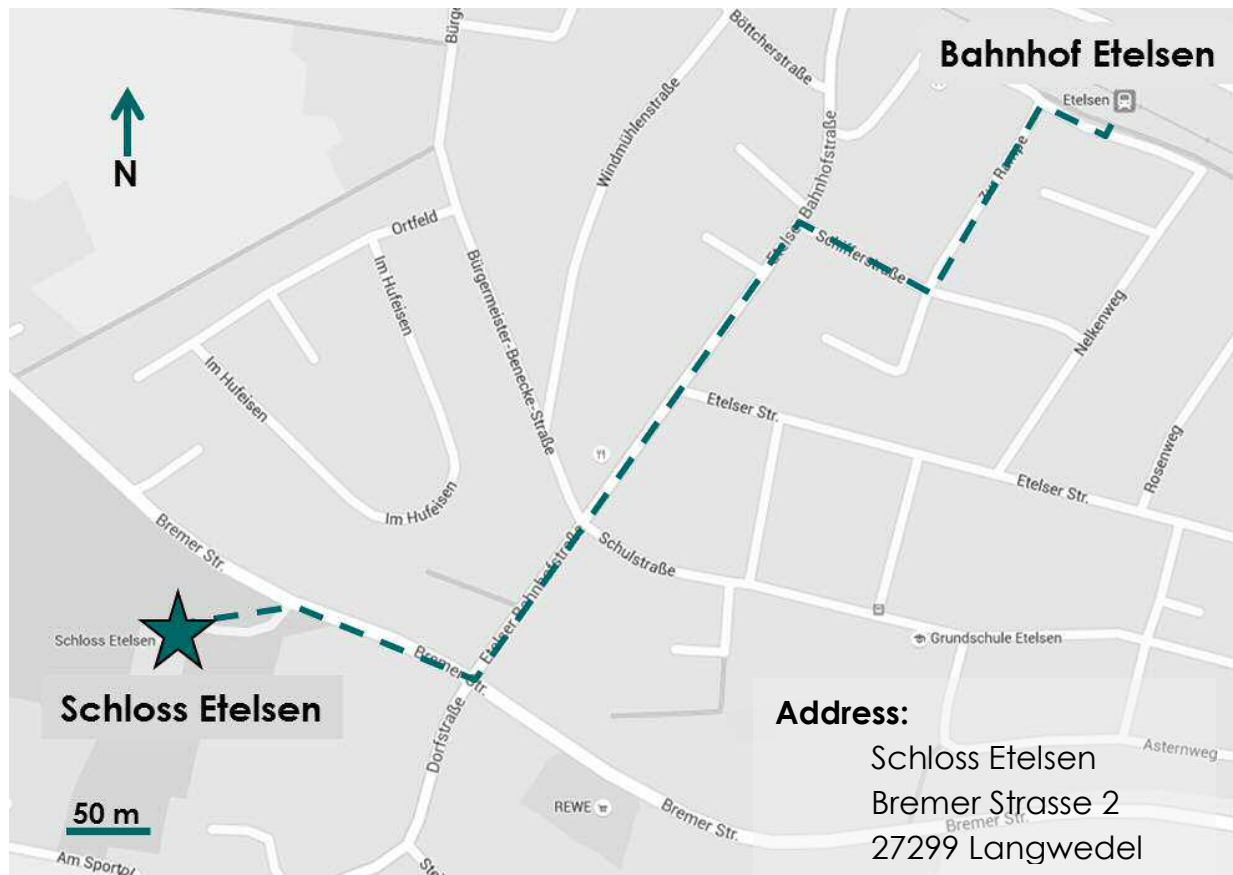
We want to thank all the participants for their contributions and thank GLOMAR for sponsoring this event.

We hope you all will enjoy your stay!

The organizing committee,

Jutta, Dierk, Tina, Benni, Charlotte, Diana, Thomas and Lennart

Getting to Schloss Etelsen



Getting to Schloss Etelsen by train from Bremen Hbf:

Take the NWB RS1 train departing from Bremen Hbf at **08:57** from platform 5, you will arrive at **09:15** in Etelsen. After a 10-15 minute walk (see map) you will reach Schloss Etelsen.

GLOMAR PhD days 2017 --- Program overview

Tuesday 04 April 2017

09:30 -	10:00	Arrival and poster set up
10:00 -	10:20	Opening by GLOMAR office and PhD representatives
10:20 -	11:45	Workshop provided by GLOMAR Postdocs
11:45 -	12:30	Session 1
12:30 -	14:00	Lunch
14:00 -	15:00	Session 2
15:00 -	16:00	Coffee and Poster Session 1
16:00 -	17:00	Session 3
18:00 -	19:00	Dinner
19:30 -	~21:00	Social with Pub Quiz

Wednesday 05 April 2017

09:00 -	10:00	Session 4
10:00 -	11:00	Coffee and Poster Session 2
11:00 -	12:30	Walkshop
12:30 -	14:00	Lunch
14:00 -	15:00	Session 5
15:00 -	15:10	Break
15:10 -	15:40	Awards and closing ceremony

GLOMAR PhD Days 2017 --- Sessions in detail

Session 1 04 April 2017 11:45 – 12:30

Chair: **Benjamin Halstenberg**

11:45 – 12:00

Alexander Diehl (talk)

The seismic thickness of oceanic lithosphere: Implications for the thermal structure of the upper mantle

12:00 – 12:07

Tina Klein (speed talk)

Tracing ocean pH/ acidification at the Early Jurassic (Pliensbachian – Toarcian) and Permo-Triassic extinction events

12:07 – 12:22

Bernhard Viehweger (talk)

Exploring ways to assess abundance and diversity of endospores in low biomass sub-seafloor sediments of the Nankai Trough Accretionary Complex

12:23 – 12:30

Leonardo Tamborrino (speed talk)

Spatio-temporal distribution of cold-water corals and coral mounds in SE Atlantic

Session 2 04 April 2017 14:00 – 15:00

Chair: **Lennart van Maldegem**

14:00 – 14:15

Benjamin Halstenberg (talk)

Integration of grain-size analysis and heavy mineral analysis for the identification of transport processes – Examples from the Fehmarn Belt Submarine Dunefield (Baltic Sea) and the Bay of Plenty (New Zealand)

14:15 – 14:22

Anouk Vlug (speed talk)

Impact of natural climate variability on Canadian Arctic glaciers during the last millennium

14:22 – 14:37

Simon Jungblut (talk)

The Asian shore crab in Europe: Invasion status and ecosystem impact

14:38 – 14:45

Sandra Petrov (speed talk)

Metabolic activity of planktonic archaea and their biogeochemical relevance in the marine C- and N-cycles

14:45 – 15:00

Poster Pitches (see presenters below)

Poster Session 1 & 2 04 April 2017 15:00 – 16:00 & 05 April 2017 10:00 – 11:00

Chair: **Lennart van Maldegem**

Charlotte Breitzkreuz

Assimilating global $\delta^{18}\text{O}$ data into the MIT general circulation model

Fiona Rochholz

Understanding climate sensitivity to greenhouse gas concentrations and orbital forcing in an Earth System Model of Intermediate Complexity

Haozhuang Wang

High productivity-controlled thriving of cold-water corals off West Melilla, Alboran Sea

Fenna Bergmann

The active channel-levee system of the Bengal Fan at 8°N

Salvador Ruiz Soto

The use of pollen grains as a tool for reconstructing the trace and the sources of different pollen types along the Adriatic Sea.

Susanne Alfken

Mass Spectrometry Imaging of Sediments – A Sample Preparation Pipeline for Laser-Based Analysis of Archaeal Lipid Biomarkers

Eunmi Park

A Study of TEX₈₆ in Sinking Particles from The Equatorial to the Subpolar Atlantic

Dharma Andrea Reyes Macaya

Regional calibration of stable isotopes, I/Ca and benthic foraminifera transfer functions for reconstructing the variability of the SE Pacific Oxygen Minimum Zone - preliminary results

Session 3 04 April 2017 16:00 – 17:00

Chair: **Diana Martinez Alarcon**

16:00 – 16:15

Dmitrii Murashkin (talk)

Daily lead map of the European Arctic from Sentinel-1 SAR scenes

16:15 – 16:30

Thomas Lorscheid (talk)

The role of sea-level indicators for paleo sea-level studies

16:30 – 16:37

Yanming Ruan (speed talk)

Linkages between continental hydrology, vegetation and biomass in Indonesia since the last Glacial: a research proposal

16:38 – 16:53

Malte Jäger (talk)

Desert dust deposition into the Atlantic Ocean as seen from Space

16:53 – 17:00

Hadar Elyashiv (speed talk)

Non-Focused versus Focused gravitational mass movements along continental margins

Session 4 05 April 2017 09:00 – 10:00

Chair: **Charlotte Breßkreuz**

09:00 – 09:15

Diana Martinez Alarcon (talk)

Integrated gene expression and protein analyses of digestive enzymes in the brown shrimp *Crangon crangon*

09:15 – 09:22

Gökce Tuba Masur (speed talk)

The interior energy pathway: internal wave emission by quasi-balanced flows

09:22 – 09:37

Alexandra Kazlova (talk)

Changes in arctic sea ice dynamics observed by satellites and implications for the coupled climate system

09:38 – 09:45

Rémi lenny (speed talk)

Fate and impact of deglacial meltwater runoff in the northwestern Atlantic Ocean

09:45 – 10:00

Rebecca Borges (talk)

Half full or half empty? Perceptions and protected area performance in a social-ecological mangrove system

Session 5 05 April 2017 14:00 – 15:00

Chair: **Thomas Lorscheid**

14:00 – 14:15

Lennart van Maldegem (talk)

Heterotrophy in the Proterozoic

14:15 – 14:22

Mattia Greco (speed talk)

Assessing the ecology of the planktonic foraminifer *Neogloboquadrina pachyderma*

14:22 – 14:37

Matthias Goerres (talk)

The role of patchiness and connectivity in temperate seagrass restoration

14:38 – 14:45

Jens Weiser (speed talk)

North-eastern Baffin Bay response to early Holocene warming

14:45 – 15:00

Julia Haberkern (talk)

The impact of the changing North Atlantic Circulation on sediment distribution at the Galicia continental margin (NW Spain) during the last 40 Ma

List of participants

Participant	Affiliation
Susanne Alfken	MARUM, University of Bremen
Fenna Bergmann	Department of Geosciences, University of Bremen
Rebecca Borges	Leibniz Centre for Tropical Marine Research (ZMT)
Charlotte Breitzkreuz	MARUM, University of Bremen
Alexander Diehl	Department of Geosciences & MARUM, University of Bremen
Hadar Elyashiv	MARUM, University of Bremen
Matthias Goerres	Institute of Geoecology, TU Braunschweig
Mattia Greco	MARUM, University of Bremen
Julia Haberkern	MARUM, University of Bremen
Benjamin Halstenberg	Marine Geophysics, University of Bremen
Rémi Ienny	MARUM, University of Bremen
Malte Jäger	Institute of Environmental Physics, University of Bremen
Simon Jungblut	BreMarE - Bremen Marine Ecology, University of Bremen
Alexandra Kazlova	Institute of Environmental Physics, University of Bremen
Tina Klein	MARUM & Department of Geosciences, University of Bremen
Thomas Lorscheid	MARUM, University of Bremen & ZMT
Diana Martinez Alarcon	Alfred Wegener Institute (AWI) & University of Bremen
Dmitrii Murashkin	Institute of Environmental Physics, University of Bremen
Aisgo Oguro	Department of Geosciences, University of Bremen
Eunmi Park	Alfred Wegener Institute (AWI)
Sandra Petrov	MARUM, University of Bremen
Dharma Andrea Reyes Macaya	MARUM, University of Bremen
Fiona Rochholz	MARUM, University of Bremen
Yanming Ruan	MARUM, University of Bremen
Slavador Ruiz Soto	MARUM, University of Bremen
Leonardo Tamborrino	MARUM, University of Bremen
Gökce Tuba Masur	Jacobs University
Lennart van Maldegem	Max Planck Institute for Biogeochemistry
Bernhard Viehweger	MARUM, University of Bremen
Anouk Vlug	MARUM, University of Bremen
Haozhuang Wang	MARUM, University of Bremen
Jens Weiser	MARUM, University of Bremen