

Koordinations-Workshop SPP 1158

(8.–9. Okt. 2009, Internationales Begegnungszentrum (IBZ) im Gästehaus der Universität Hamburg)

Donnerstag, 8. Oktober 2009

13:00 Uhr Einführung

Martin Melles (Köln),
Angelika Brandt (Hamburg)

Begrüßung und Einführung

Guido Lüniger, Ismene
Seeberg-Elverfeldt (Bonn)

Hannes Grobe
(Bremerhaven)

PANGAEA – Publishing Network for Geoscientific & Environmental
Data

Veit Helm, Daniel Steinhage
(Bremerhaven)

CryoSat-2 – ESA's new ice mission

14:20 Uhr Kurzvorträge Atmosphäre und Meereis (Moderation: Peter Lemke)

Lars Kaleschke
(Hamburg)

Implications of Arctic Sea Ice Reduction on Tropospheric Bromine,
Ozone, and Mercury Chemical Processes, Transport, and Distri-
bution

Andreas Richter
(Bremen)

Einfluss des Meereisrückgangs auf die polare troposphärische
Halogenchemie

Klaus Morawetz, Bernd
Kutschan (Münster), Silke
Thoms (Bremerhaven)

Bildung von Solekanälen im Meereis

Christof Lüpkes (Bremerhaven)
Siegfried Raasch (Hannover) –
Vorstellung: Peter Lemke

Representation of the convective atmospheric boundary layer
during cold-air outbreaks in regional models: a joined study based
on observations, Large Eddy Simulation and mesoscale modelling

Detlef Stammer, Stefan Kern
(Hamburg)

The Sea Ice Volume of the Southern Ocean

Ilka Peeken
(Bremen)

Potential effects of climate change on primary productivity of sea-
ice algae

Christoph Vogt, Johannes
Birkenstock (Bremen)

State-of-the-Art investigation of the clay fraction of surface sedi-
ments in the Antarctic and Arctic marine realm: Full quantification
of mineral assemblage by Rietveld and other full-pattern methods
vs. detailed inorganic geochemistry

Klaus Valentin, Stephan
Frickenhaus (Bremerhaven)

Meereismetagenomik und Metatranskriptomik

Christian Weikusat
(Heidelberg)

Raman-Untersuchungen von Mikroeinschlüssen in Eiskernen

15:10 Uhr Kaffeepause

15:30 Uhr Poster

Dorte Janussen, Christian
Göcke, Sergio Vargas, Gert
Wörheide (Frankfurt/M.,
München)

Phylogeny of selected key taxa of Antarctic deep-sea Porifera
(Sponges) and the history of their radiation: New sponge taxa in
the deep Weddell Sea : Diversity and zoogeographic affinities

| | |
|--|---|
| Christian Göcke, Sergio Vargas, Gert Wörheide, Dorte Janussen (München, Frankfurt/M.) | Phylogeny of selected key taxa of Antarctic deep-sea Porifera (Sponges) and the history of their radiation: Hexactinellida of the ANT XXIV/2 - (SYSTCO) Expedition - and the surprising rediscovery of a poorly known genus |
| Sergio Vargas, Christian Goecke, Dorte Janussen, Gert Wörheide (München, Frankfurt/M.) | Counting in the abyss: sponge species richness prediction in deep Antarctic waters |
| Sergio Vargas, Dirk Erpenbeck, Dorte Janussen, Christian Goecke, Gert Wörheide (München, Frankfurt/M.) | One character to bind them all? An enriched Southern Ocean sample to unveil the systematic relationships of the most diverse demosponge order |
| Christine Wesche, Wolfgang Dierking, Hertmut Hellmer (Bremerhaven) | Iceberg census and tracking in the Weddell Sea utilizing satellite data" (DI 909/3-1), Postertitel: Detection of icebergs using ERS SAR images |
| Jens Roessiger, Paul D. Bons, Sérgio H. Faria (Tübingen, Göttingen) | NUMOPOLI/FUMOPOLI: Modelling of deformation and recrystallization microstructures in polar ice: Numerical & fundamental studies |
| Gregor Leckebusch, Ulrike Langematz, Jens Grieger, Janna Abalachin, Mareike Schuster, Uwe Ulbrich, Ulrich Cubasch (Berlin) | The shift of southern hemisphere storminess under ACC around Antarctica and its impacts |
| Axel Behrendt, Eberhard Fahrbach (Bremerhaven) | The sea ice thickness in the Atlantic Sector of the Southern Ocean |
| Ilka Weikusat (Bremerhaven) | Deformation of ice on the grain scale by means of high-resolution crystal-orientation measurements: First results |
| Oliver Baars, Peter L. Croot (Kiel) | The Speciation of dissolved Zinc and Cobalt in the Atlantic sector of the Southern Ocean |
| Jutta Wollenburg (Bremerhaven) | Culture experiments on the $\delta^{13}\text{C}$ values recorded in tests of deep-sea benthic foraminifera from methane sources at high latitudes |
| Boris Koch, Oliver Lechtenfeld (Bremerhaven) | Production and sequestration of dissolved organic carbon in the Weddell Sea: Tracing deep-water formation with molecular methods (KO 2164/8-1) |
| Celia Venchiarutti, Michiel Rutgers van der Loeff (Bremerhaven) | Scavenging of ^{231}Pa and Thorium isotopes based on dissolved and size-fractionated particulate distributions at Drake Passage (ANTXXIV-3) |
| Johannes Dambach, Michael Raupach (Bonn) | Processes generating diversity patterns in antarctic shelf and deep-sea shrimps (Crustacea: Decapoda: Caridea). Genetic and morphometric analysis combined with species distribution models for palaeoclimatic scenarios |
| Ulf Karsten, Bettina Fach, Burkhard Becker, (Rostock, Köln) | Dark survival strategies in benthic diatoms from polar waters |
| Henning Schröder, Tomas Wonik (LIAG Hannover) | Sedimentation rates based on well logging data from the bore-hole AND-2A, ANDRILL Southern McMurdo Sound Project, Antarctica |
| Martin Losch, Olaf Klatt (Bremerhaven) | Trends in water mass properties in the Weddell Sea from analysis of float data with a regional ocean model Bundle: The role of the Atlantic sector of the Southern Ocean in the climate system |

| | |
|---|--|
| Axinja Stark, Franz-Josef Sartoris (Bremerhaven) | CO ₂ and temperature impact on physiology of an arctic bivalve - <i>Serripes groenlandicus</i> |
| Mika Kohno (Göttingen) | Geochemical signatures of tephras in the blue ice field (Sør Rondane Mts.) and correlation with ice core tephras (Dome Fuji and EDML) |
| Steffi Gäbler-Schwarz (Bremerhaven) | Comparison of genetic diversity in the colony forming polar prymnesiophyte species <i>Phaeocystis antarctica</i> and <i>Phaeocystis pouchetii</i> (SM 22/11-1) |
| Stefan Kern, Manfred Brath, Detlef Stammer (Hamburg) | THIN ICE |
| Hartmut Arndt, Frank Nitsche (Köln) | Exploration of microbial biodiversity in polar glacial ice cores (BIOICE University of Cologne) |
| Kerstin Töbe, Elisabeth Helmke, Frank Wilhelms (Bremerhaven) | Exploration of microbial biodiversity in polar glacial ice cores (BIOICE AWI) |
| Gregor Leckebusch, Ulrike Langematz, Jens Grieger, Janna Abalachin, Mareike Schuster (Berlin) | The shift of southern hemisphere storminess under anthropogenic climate change around Antarctica and its impacts – (SACAI) |
| Nike Fuchs (Bremerhaven) | Controls on and paleoceanographic utility of the valve size frequency distribution of the Southern Ocean diatom, <i>Fragilariopsis kerguelensis</i> |
| Christoph Mayer, Klaus Grosfeld, M. Thoma (Bremerhaven) | Modelling ice-lake interaction processes and their feedbacks on the flow of the Antarctic Ice Sheet |

17:00 Uhr Kurzvorträge Land und Inlandeis (Moderation: Lothar Viereck-Götte)

| | |
|--|---|
| Jürgen <u>Koepke</u> (Hannover) | Pilotstudie zur magmatischen Entwicklung des Tiger-Gabbro-Komplexes (Nördliches Victoria Land, Antarktis): Einblicke in die untere Kruste eines kambrischen Inselbogens |
| Lothar <u>Viereck-Götte</u> (Jena) | Klimarelevanz der Volatilemissionen während der Bildung der Jurassischen Ferrar-Large-Igneous Provinz, Antarktis |
| Sebastian <u>Lindhorst</u> , Christian Betzler (Hamburg), Christian Hass (Bremerhaven) | Polar beach-ridge development (Quaternary of King George Island, Antarctic Peninsula) |
| Todd Ehlers, Paul Bons, Jens <u>Rössinger</u> (Tübingen) | Quantifying Ice Sheet Erosion and Dynamics with Integrated Thermochronology and Numerical Modeling |
| Monika <u>Breitzke</u> (Bremen) | Quaternary sedimentation processes and ice sheet dynamics along glaciated polar margins: Western Weddell Sea vs. Northeast Greenland margin |
| Michael <u>Weber</u> (Köln), Gerhard Kuhn (Bremerhaven) | Chronostratigraphy and glacial ice-sheet dynamics deduced from sediment cores in the eastern to southern Weddell Sea, Antarctica |
| Martin <u>Werner</u> (Bremerhaven), Bernd Wagner (Köln) | Iterative Holocene climate and ice sheet modelling of coastal East Antarctica |
| Karsten Gohl, Gabriele Uenzelmann-Neben, Estella <u>Weigelt</u> (Bremerhaven) | Neogene ice sheet cyclicity of West Antarctica |

18:30 Uhr Häppchen und Getränke

Freitag, 9. Oktober 2009

9:00 Uhr **Kurzvorträge Südozean (Moderation: Angelika Brandt)**

| | |
|--|--|
| Oliver <u>Huhn</u> (Bremen) | Aufnahme und Variabilität von anthropogenem Kohlenstoff im Atlantischen Sektor des südlichen Ozeans, 1984-2010 |
| Gisela Lannig (Bremerhaven) - vorgestellt von Franz Josef <u>Sartoris</u> | Temperature impact on CO ₂ sensitivity in polar fish - Comparative approach in a latitudinal cline - Antarctic vs. North Sea eelpouts |
| Thomas <u>Leya</u> , Alexander Wacker (Postdam) | Factors regulating fatty acids in snow algae and their transfer to consuming rotifers and ciliates |
| Florian Leese, Christoph Mayer (Bochum), Christoph <u>Held</u> (Bremerhaven) | Population connectivity and demography in Southern Ocean pycnogonids in response to a changing ecosystem |
| Franz Josef <u>Sartoris</u> , Sigrid Schiel (Bremerhaven), Holger Auel (Bremen) | Overwintering strategies in polar copepods: Physiological mechanisms and buoyancy regulation by ammonium |
| Wilhelm <u>Hagen</u> (Bremen), Barbara Niehoff, Martin Graeve, Gerhard Kattner (Bremerhaven) | Metabolism of dominant Antarctic copepods during critical life phases: enzyme activities and biosynthetic pathways revealed by ¹³ C-labeled lipid compounds |
| Anna <u>Wegner</u> (Bremerhaven) | Variabilität atmosphärischer Zirkulationsmuster und des Aerosol-eintrags in der küstennahen Antarktis: Eine hochauflösende Eiskernstudie im östlichen Einzugsgebiet der Weddellsee |

10:30 Uhr Kaffeepause

10:50 Uhr **Treffen in Kleingruppen**

- Abstimmung und Planung von Projektarbeiten
- Bündelung bzw. Vernetzung von Projekten
- Langfristplanung von Projektinitiativen

12:00 Uhr Mittagspause

13:00 Uhr **Podiumsdiskussion**

- Zusammenfassung der Diskussionen in den Kleingruppen
- Verwendung der Koordinationsmittel im SPP
- SPP Berichtskolloquium 2010
- Begutachtungsprozess
- Doktorandengehälter

Ende des Workshops gegen 15:00 Uhr