



DFG-SCHWERPUNKTPROGRAMM 1158

ANTARKTIS FORSCHUNG

mit vergleichenden Untersuchungen in arktischen Eisgebieten

Poster

Koordinations-Workshop SPP 1158

(12.-14.09.2018, Justus-Liebig-Universität Gießen, Neues Chemiegebäude,
Heinrich-Buff-Ring 17, 35392 Gießen)

Thursday, 13. September 2018

1:00 pm - 3:00 pm

J.E. Arndt (Bremerhaven), R.D. Larter,
P. Friedl, K. Gohl, K. Höppner, and the
Science Team of Expedition PS104

Bathymetric controls on calving processes at Pine Island
Glacier

T. Albrecht (Potsdam), R. Winkelmann

Basal parameter choices for high-resolution ice sheet
modeling with PISM

J. Bernales (Bremen), I. Rogozhina, M.
Prange

MAGIC-DML: Combining climate and ice sheet modelling
with field-based data to reconstruct the long-term glacial
history of East Antarctica

U. Postel, G. Glöckner, U. John, K.
Valentin, B. Beszteri (Bremerhaven)

Genomic signatures of neutral and adaptive
microevolutionary processes in *Fragilariopsis kerguelensis*, a
main silicate sinker of the Southern Ocean

P. Laeseke, B. Martínez, A. Mansilla, K.
Bischof (Bremen)

Integration of correlative species distribution models (SDMs)
and physiological knowledge could help identifying potential
seaweed invaders to Antarctica

D. Bozzato (Leipzig), T. Jakob, C.
Wilhelm

The effect of climate change on the carbon balance in
microalgae

J. Ebbing, W. Szwillus, G. Macelloni, M.
Kern, F. Ferraccioli, F. Pappa, E.
Bredow (Kiel)

Satellite estimates of the Antarctic heat

L. Dietz (Bonn), J. S. Dömel, F. Leese,
C. Mayer

Phylogenomics of the longitarsal Colossendeidae: the
evolution of a diverse Antarctic sea spider radiation

H. Dietze (Kiel), U. Löptien, Birgit
Schneider

Glacial/interglacial hydrographic structures and nutrient
utilisation in the Pacific Southern Ocean

M. Toohey vorgestellt von H. Dietze
(Kiel)

eVolv2k: Ice core-based volcanic forcing of climate variability
for the past 2000 years

A. Dürwald (Greifswald), R. Gebbe, R.
Schlüter, F. Unfried, D. Becher, T.
Schweder (Greifswald)

Polysaccharide utilization mechanisms of
Pseudoalteromonas haloplanktis ANT/505 at permanent low
temperatures

- R. Dziadek (Bremerhaven), K. Gohl, N. Kaul
S. Richter, R. Gerum, A. Winterl, A. Houstin, M. Seifert, J. Peschel, B. Fabry (Erlangen), C. Le Bohec, D.P. Zitterbart
- L. Ganzert (Potsdam), D. Wagner (Potsdam), N. Rybalka, T. Friedl (Göttingen)
- M.W. Friedrich (Bremen), D. Aromokeye
- C. Havermans (Bremen), C. Held, H. Auel, W. Hagen
- H. Herr (Hamburg), B. Meyer
- F. Koch (Bremerhaven)
- E. Lagostina (Frankfurt), C. Printzen
- F. Pätzold, T. Krüger, A. Lampert (Braunschweig), E. Damm, S. Nowak, K. Bärfuss, T. Rausch, B. Altstädter, J. Verdugo
- J. Feldmann, R. Reese, R. Winkelmann, A. Levermann
vorgestellt von T. Albrecht (Potsdam)
- S. Losa, J. Oelker, M. A. Soppa (Bremerhaven), M. Losch, S. Dutkiewicz, T. Dinter, A. Richter, V. Rozanov, J.P. Burrows, A. Bracher
- A. Brandt, K. Linse, H. Griffith
vorgestellt von S. Martha (Frankfurt)
- J. Masello (Gießen), A. Barbosa, A. Kato, T. Mattern, P. Quillfeldt (Gießen)
- L.A. Meier (Tübingen), P. Krauze (Potsdam), I. Prater, T. Scholten, D. Wagner (Potsdam), P. Kühn, C.W. Müller
- C. Melsheimer (Bremen), G. Spreen, Y. Ye, M. Shokr
- J. Piontek (Rostock), K. Jürgens
- F. Reiser (Trier), S. Willmes, G. Heinemann
- M. Rippin (Köln), S. Lange, N. Borchhardt, L. Williams, P. Jung, B. Büdel, U. Karsten (Rostock), B. Becker
- L. Rossmann (Bremerhaven), S. Arndt, L. Tiemann, N. Wever, M. Lehning, N. Maaß, L. Kaleschke, M. Nicolaus
- S. Arndt vorgestellt von L. Rossmann (Bremerhaven)
- Geothermal heat flow in the Amundsen Sea sector, West Antarctica - constrained by geophysical methods
- Phase transitions in huddling emperor penguins
- From single pioneers to complex networks: Composition and interactions of fossil and recent prokaryotic and eukaryotic communities
- Environmental controls of iron-reducing microorganisms in Antarctic sediments [ECIMAS]
- Is the hyperiid amphipod *Themisto gaudichaudii* poised to displace krill in the warming region of the Southern Ocean?
- Recovery status and ecology of fin whales (*Balaenoptera physalus*) at the West Antarctic Peninsula
- The first year: Polarstern Expedition 112 to the Southern Ocean
- Dispersal and genetic exchange of lichen populations between Patagonia and the Antarctic Peninsula
- ALICE - A remotely piloted air sampling system for methane isotopic analysis
- Snowfall versus sub-shelf melt: response of an idealized 3D ice-sheet-shelf system to mass redistribution
- Studying the Antarctic phytoplankton in response to environmental change studied by a synergistic approach using multi- and hyper-spectral satellite data (PhySyn)
- The influence of Larsen-C ice-cover on macrobenthic peracarid crustacean assemblages on the Antarctic shelf
- How animals distribute themselves in space: energy landscapes of an Antarctic predator
- Microbial-mediated soil formation in maritime Antarctica under simulated environmental conditions
- Sea ice type retrieval in the Antarctic from microwave satellite observations: First results
- The environmental control of heterotrophic bacterial activity in the Weddell Sea
- Circum-Antarctic sea-ice lead frequencies and regional distribution from satellite data
- Polar biological soil crust ecology identification of genera using classical and molecular approaches
- Snow cover impacts on Antarctic sea ice
- Snow contrasts controlling the fate of sea ice (SnowCast)

- F. Säring (Rostock), H. Link, G. Veit-Köhler (Wilhelmshaven) Meiofauna community patterns and environmental drivers: effects of sea-ice cover and food availability in different regions of the Weddell Sea (Antarctic)
- C. Schannwell (Tübingen), R. Drews, T. A. Ehlers, O. Eisen, C. Mayer Modelling stable grounding line positions in the Ekström Ice Shelf catchment from the Last Glacial Maximum to present
- P. Busch, M. Scheinert (Dresden) Investigating Ice-Mass Balance and Glacial Isostatic Adjustment in the Amundsen Sea Sector, West Antarctica, by Geodetic Observations and Modelling
- A. Richter, M. Scheinert (Dresden) Ice flow dynamics, subglacial hydrology and long-term mass balance at Lake Vostok
- T. Schaller, P. Zingerle, M. Scheinert (Dresden), R. Pail, P. Abrykosov The Gravity Field in Antarctica: Geodetic Modelling and Geophysical Inversion (AntGrav)
- M. Scheinert (Dresden) Interaction between mass changes of the Antarctic Ice Sheet and solid Earth in Dronning Maud Land, East Antarctica
- T. Taranczewski (Bremen), M. Sormani Bubble distributions as markers for deformation in polar ice: Current state of work
- C. Tatzelt (Leipzig), S. Henning, A. Welti, A. Baccharini, M. Gysel, D. Rosenfeld, H. Wernli, K. Carslaw, J. Schmale, F. Stratmann Concentrations of Cloud Condensation Nuclei and Ice Nucleating Particles around Antarctica during the 2016/17 Antarctic Circumnavigation Expedition
- J. Thébault (Gießen), P. Quillfeldt (Gießen) Schadstoffe und Mikroplastik-Residuen in Antarktischen Sturmschwalben und Watvögeln
- F. Pausch, S. Trimborn (Bremerhaven) Physiological responses of the Antarctic diatom species *Chaetoceros debilis* to different concentrations of iron and manganese
- M. Bohn, C. Mayer, E. Kusch, H. Link, U. Witte, G. Veit-Köhler (Wilhelmshaven) Antarctic benthic copepods and nematodes react to addition of isotopically-marked food in pulse-chase experiment
- X. Zhou (Hannover), J. Michaelis, C. Lüpkes, M. Gryscha (Hannover) Modelling and parameterization of lead generated turbulence