



DFG-SCHWERPUNKTPROGRAMM 1158

# ANTARKTIS FORSCHUNG

mit vergleichenden Untersuchungen in arktischen Eisgebieten

## Poster (report)

### Coordination Workshop SPP 1158

25<sup>th</sup>-27<sup>th</sup> September 2019, Haus der Wissenschaft, Sandstraße 4/5, 28195 Bremen

Thursday, 26<sup>th</sup> September 2018

1:00 - 3:00 pm

1	<u>J.E. Arndt</u> (Bremerhaven), R.D. Larter, P. Friedl, C.-D. Hillenbrand, K. Gohl, K. Höppner, PS104 Shipboard Scientific Party	Past pinning points of Pine Island Glacier and the Brunt Ice Shelf mapped by swath bathymetry
2	<u>S. Arndt</u> (Bremerhaven)	Snow contrasts controlling the fate of sea ice (SnowCast): A project overview
3	<u>J. Balaguer</u> , F. Koch, <u>S. Trimborn</u> (Bremerhaven)	Effect of Fe-Mn co-limitation on phytoplankton communities composition of natural assemblages across the Drake Passage
4	<u>S. Berg</u> (Köln)	Marine ecosystem response to late Pleistocene climate conditions- evidence from snow petrel stomach oil deposits ("mumiyo") in East Antarctica
5	U. Postel, G. Glöckner, U. John, K. Valentin, <u>B. Beszteri</u> (Duisburg-Essen)	Population Genomic Zonation and Microevolutionary Adaptation in <i>Fragilariopsis kerguelensis</i> , a main Silicate Sinkers of the Southern Ocean
6	F.C. Wermter, W. Dreher, <u>C. Bock</u> (Bremerhaven)	MR imaging of pH using TauCEST - pH <sub>i</sub> mapping in polar fishes
7	M. Scheinert, <u>E. Buchta</u> (Dresden)	Interaction between mass changes of the Antarctic Ice Sheet and solid Earth in Dronning Maud Land, East Antarctica
8	<u>D. Di Franco</u> (Frankfurt), K. Linse, H. Griffiths, O. Ashford, H. Saaedi, A. Brandt	Influence of sea ice-cover and latitude on macrobenthic peracarid crustaceans in the Antarctic Peninsula
9	<u>A. Dürwald</u> (Greifswald), T. Schweder	Polysaccharide utilization mechanisms under permanent low-temperature conditions in the Southern Ocean
10	M. Lösing, <u>J. Ebbing</u> (Kiel), F. Pappa, W. Szwilius	Probabilistic Inversion of Antarctic Surface Heat Flux, Impact of Curie Isotherm and Moho Depth Models
11	<u>J. Feldmann</u> (Potsdam), A. Levermann	Timescale of ice-sheet retreat determined by ice-shelf buttressing

12	M. Kreuzer, J. Garbe, T. Albrecht, M. Mengel, R. Winkelmann (presented by <u>J. Feldmann</u> , Potsdam)	Hysteresis of the Antarctic Ice Sheet
13	T. Albrecht, R. Timmermann, R. Winkelmann (presented by <u>J. Feldmann</u> , Potsdam)	Coupled ocean-ice simulations of the Weddell Sea Basin, Antarctica
14	<u>J. Freitag</u> (Bremerhaven), C. Redenbach, M. Sormani, T. Taranczewski	What can we learn from bubbles in polar ice?
15	D.A. Aromokeye, G.W. Porati, S. Henkel, <u>M.W. Friedrich</u> (Bremen)	Environmental controls of iron-reducing microorganisms in Antarctic marine sediments
16	<u>L. Ganzert</u> (Göttingen), T. Friedl, D. Wagner	From pioneers to complex systems: Composition of fossil and recent bacterial and eukaryotic communities and their possible interactions along a deglaciation gradient
17	<u>F. Ghaderiardakani</u> , <u>T. Wichard</u> (Jena)	Adaptation of the green seaweed <i>Ulva</i> and its microbiome to cold temperature in Antarctica (COLDULVA)
18	<u>C. Havermans</u> (Bremerhaven), C. Held, H. Auel, W. Hagen	Is the hyperiid amphipod <i>Themisto gaudichaudii</i> poised to displace krill in the warming region of the Southern Ocean?
19	<u>H. Herr</u> (Hamburg), S. Viquerat, B. Meyer	Recovery status and ecology of fin whales ( <i>Balaenoptera physalus</i> ) at the West Antarctic Peninsula
20	A. Richter, M. Scheinert (presented by <u>M. Horwath</u> , Dresden)	Eisfließdynamik, subglaziale Hydrologie und langzeitige Massenbilanz am Lake Vostok aus der Kombination von geodätischen GNSS-Messungen und Eisradardaten
21	T. Schaller, P. Zingerle, M. Scheinert, R. Pail (presented by <u>M. Horwath</u> , Dresden)	Schwerefeld in der Antarktis: Geodätische Modellierung und geophysikalische Inversion (AntGrav)
22	<u>L. Istomina</u> (Bremerhaven), G. Heygster, C. Melsheimer, G. Spreen, C. Haas	Recent Antarctic sea ice surface melt from satellite remote sensing (REASSESS)
23	<u>F. Koch</u> (Bremerhaven)	The second year: Trace metal cycling and the impacts of grazing
24	<u>P. Krauze</u> (Potsdam), L.A. Meier, I. Prater, T. Scholten, P. Kühn, C.W. Mueller, D. Wagner	Microbial-mediated soil formation in maritime Antarctica under simulated environmental conditions
25	<u>G. Kuhn</u> (Bremerhaven), G. Bohrmann, T. von Dobeneck	Introducing available samples and data for Project "Pleistocene Sediments around South Georgia"
26	<u>P. Laeseke</u> (Bremen), B. Martínez, A. Mansilla, K. Bischof	Probability of Seaweed invasions into Antarctica (SINVA): Invasiveness vs. Invasibility
27	<u>H. Link</u> (Rostock), G. Veit-Köhler, D.M. Seifert	Role of ice cover and macrofauna for benthic oxygen uptake in the south-eastern Weddell Sea
28	<u>E. Maier</u> (Bremerhaven), A. Abelmann, R. Gersonde, C. Meyer-Jacob, O. Esper, A. Mackensen, H. Meyer	Biogenic opal isotopes - a calibration study for oxygen and silicon isotopes of diatoms and radiolarians from the Pacific Southern Ocean
29	D. Wagner, P. Kühn, T. Scholten, C.W. Müller (presented by <u>L.A. Meier</u> , Tübingen)	Microbial-mediated soil formation in maritime Antarctica under simulated environmental conditions
30	<u>C. Melsheimer</u> (Bremen), G. Spreen, Y. Ye., M. Shokr	Sea ice type retrieval in the Antarctic from microwave satellite observations: 2013 – 2019
31	<u>J. Michaelis</u> (Bremerhaven), X. Zhou, C. Lüpkes, M. Gryscha	Impact of lead width on convective turbulence over sea ice and its parameterization for microscale models

<b>32</b>	<u>J. Piontek</u> (Warnemünde), J. Werner, A. Engel, K. Jürgens	Combined effects of organic matter and temperature on composition and activity of heterotrophic bacterioplankton in the Weddell Sea
<b>33</b>	<u>F. Reiser</u> (Trier), S. Willmes, G. Heinemann	Circum-Antarctic sea-ice lead frequencies and regional distribution from satellite data
<b>34</b>	L. Rossmann, S. Arndt, L. Tiemann, N. Wever, M. Lehning, N. Maaß, <u>L. Kaleschke</u> (Bremerhaven), M. Nicolaus	Snow Cover impacts on Antarctic Sea Ice
<b>35</b>	<u>F. Säring</u> (Rostock), G. Veit-Köhler, H. Link	The influence of environmental changes on meio- and macrofauna community structure in regions under different ice regimes.
<b>36</b>	<u>C. Schannwell</u> (Tübingen), R. Drews, T.A. Ehlers, C. Mayer, O. Eisen	Unlocking a new time scale for Full-Stokes ice sheet models
<b>37</b>	<u>T. Schultz</u> (Kaiserslautern), A. Humbert, R. Müller	solidFIDEMO – A firn densification model for volumetric mass balances
<b>38</b>	G. Heinemann, <u>T. Semmler</u> (Bremerhaven), R. Timmermann	Regional high-resolution Downscaling of Climate Change in the Weddell Sea, Antarctic (REDOCCA)
<b>39</b>	<u>C. Tatzelt</u> (Leipzig), S. Henning, A. Welti, A. Baccarini, M.G. Beer, D. Rosenfeld, H. Wernli, K. Carslaw, J. Schmale, F. Stratmann	Cloud Condensation Nuclei and Ice Nucleating Particles over the Southern Ocean: Concentrations and Properties during the Antarctic Circumnavigation Expedition
<b>40</b>	<u>J. Thébault</u> (Gießen)	Mercury contamination and plastic debris residues in Antarctic petrel species
<b>41</b>	M. Bohn, C. Mayr, E. Kusch, H. Link, U. Witte, <u>G. Veit-Köhler</u> (Wilhelmshaven)	Biomass beats body size: Benthic nematodes eat more than copepods
<b>42</b>	<u>F.C. Wermter</u> (Bremen), C. Bock, W. Dreher	Unravelling the neurophysiological mechanisms responsible for OWA induced behavioral changes in polar fish: an NMR approach
<b>43</b>	<u>A. Winterl</u> (Erlangen-Nürnberg), S. Richter, R. Gerum, B. Fabry, C. Le Bohec, D. Zitterbart	Physikalische Grundlagen des kollektiven Verhaltens von Kaiserpinguinen
<b>44</b>	<u>J. Zimmermann</u> (Berlin), H.-P. Grossart, U. Karsten	Biodiversity and biogeography of marine benthic diatoms in Antarctic and Arctic coastal zones and their infection by chytrid parasites under climate change scenario
<b>45</b>	S. Gschwendtner, J. Boy, M. Schloter	Evolution of nitrogen turnover in terrestrial ecosystems of the maritime Antarctic
<b>46</b>	A. Paijmans, J. Hoffman	Genomic dissection of climate change impacts on a declining Antarctic top predator population