

**List of the Projektskizzen SPP Coordination Workshop 2020**

<b>Discipline</b>	<b>Authors</b>	<b>email of corresponding author</b>	<b>Title of Projektskizze</b>
Biology	A. Ausems	anne.ausems(at)gmail.com	Foraging and movement ecology of two species of sympatrically breeding Antarctic storm-petrels
Biology	K. Becker & F. Schubotz	kbecker(at)geomar.de	Effects of enhanced photooxidative stress on microbial communities and the biological carbon pump in the Southern Ocean
Biology	B. Beszteri, G. Glöckner & K. Valentin	Klaus.Valentin(at)awi.de	Comparative metatranscriptomics along latitudinal gradients in the Southern Ocean
Biology	A. Brandt & H. Saeedi	angelika.brandt(at)senckenberg.de	Biodiversity and future distribution of peracarid crustaceans from the Southern Ocean under the rapid climate change
Biology	D. Dietrich	daniel.dietrich(at)uni-konstanz.de	Pole to Pole exchange: Climate facilitated cyanobacterial parasite pressure & mat ecosystem response
Biology	M. Friedrich	michael.friedrich(at)uni-bremen.de	Environmental Controls of Iron-Reducing Microorganisms in Antarctic Marine Sediments: interactions with the sulfur cycle [ECIMAS-2]
Biology	L. Ganzert	lganzert(at)gfz-potsdam.de	Microbial biodiversity and functions in various soil habitats of Antarctica and their response to a changing continent (MiBiFun)
Biology	J. Geuer	jana.geuer(at)awi.de	Mechanisms of uptake and storage of low-concentrated iron in the Southern Ocean by the diatom <i>Pseudonitzschia</i> – the role of domoic acid
Biology	C. Havermans & M. Ruiz	charlotte.havermans(at)awi.de	Detecting the invisible through DNA metabarcoding: connectivity and role of gelatinous zooplankton in the Southern Ocean food web
Biology	T. Kaiser, H. Herr & S. Viquerat	helena.herr(at)uni-hamburg.de	Allometry and kinematic repertoire of Southern Hemisphere fin whales ( <i>Balaenoptera physalus</i> )
Biology	S. Laakmann, I. van Oppzeeland & G. Gerlach	silke.laakmann(at)hifmb.de	SENSE - SEqueNces and Sounds from underwater - Sequences and sound from underwater – a promising and non-invasive tool for biodiversity monitoring
Biology	I. van Opzeeland, H. Hillebrand, K. Thomisch, R. M. Mattmüller	ramona.mattmueller(at)awi.de	Comparing underwater noise budgets and marine mammal community compositions between two polar regions with strongly differing underwater noise regimes
Biology	S. Pineda Metz	santiago.pineda.metz(at)gmail.com	Community and functional structure of high-Antarctic benthos
Biology	J. Piontek	judith.piontek(at)io-warnemuende.de	Environmental control and genetic drivers of bacterial DMS production in the Weddell Sea
Biology	C. Printzen & A. Beck	beck(at)snsb.de	Effects of natural and human disturbances on the genetic diversity of Antarctic lichen populations
Biology	H. Saeedi & A. Brandt	hanieh.saeedi(at)senckenberg.de	Biodiversity and future distributions of the Southern Ocean FAUNA
Biology	U. Siebert & K. Lehnert	Kristina.Lehnert(at)tiho-hannover.de	Establishing biomarkers for wildlife health: Polar pinnipeds as indicators for ecosystem integrity
Biology	S. Thoms & M. Iversen	Silke.Thoms(at)awi.de	Impact of aggregation on carbon export of phytoplankton in today's and the future Southern Ocean
Biology	Y. Ye, C. Klass & S. Thoms	Ying.Ye(at)awi.de	From model simulation of the ocean iron fertilisation experiment EIFEX to understanding of ecosystem responses to changes in nutrient supply in different climates
Geology	R.R. Almeev, F. Holtz & N. Koglin	f.holtz(at)mineralogie.uni-hannover.de	Differentiation and magma storage conditions of low-Ti and high-Ti magmatic rocks of the Ferrar Large Igneous Province, Antarctica
Geology	N. Goseberg & H. Lantuit	n.goseberg(at)tu-braunschweig.de	The Antarctic coastal erosion response to shrinking sea ice coverage and warmer permafrost temperatures
Geology	N. Koglin, A. Läufer, C. Gaedicke, O. Eisen, G. Kuhn, J. Klages & F. Holtz	Nikola.Koglin(at)bgr.de	Penguin gastrolites and rock pebbles from the Ekstroem Ice Shelf seafloor area, Dronning Maud Land: an interdisciplinary tool for sub-ice geology and provenance
Geology	F. Lisker, C. Spiegel, A. Läufer & A. Ruppel	flisker(at)uni-bremen.d	Rennick Rifting: Initiation or termination of Gondwana breakup?
Geology	A. Petrunin	alexei(at)gfz-potsdam.de	Determination of the thermal structure and surface heat flow in the Antarctic based on the inversion of multiple geophysical data (DANTE)*
Geology	M. Scheinert	Mirko.Scheinert(at)tu-dresden.de	Interaction between mass changes of the Antarctic Ice Sheet and solid Earth in Dronning Maud Land, East Antarctica (renewal proposal to SCHE-1426/26-1)
Physics/Chemistry	S. Berg	sberg0(at)uni-koeln.de	East Antarctic ice sheet dynamics since the LGM, evidence from coastal areas
Physics/Chemistry	M. Braun & A. Humbert	matthias.h.braun(at)fau.de	Climate sensitivity of western Antarctic Peninsula ice shelves
Physics/Chemistry	O. Engels	engels(at)geod.uni-bonn.de	Data-driven monthly solver for viscoelastic deformation and corresponding mass changes over Antarctic Ice Sheet
Physics/Chemistry	B. Heinold	schroed(at)tropos.de	Biogenic sources of marine aerosols in the Southern Ocean region - What is their importance for clouds and climate?
Physics/Chemistry	K. Jerosch, D. Abele & M Böttcher	kerstin.jerosch(at)awi.de	Ecosystem function change and biogeochemistry of the C cycle at the land-sea interface: spatial quantification of glacial melt-enhanced natural regulation of carbon consumption at the tip of the West Antarctic Peninsula
Physics/Chemistry	B. Koch & M. Hoppema	bkoch(at)hs-bremerhaven.de	Identifying the carbon that matters: chemical controls on organic matter aggregation (COMA)
Physics/Chemistry	B. Kutschan & S. Thoms	Silke.Thoms(at)awi.de	Anisotropic ice crystal growth and information transfer in cryosphere
Physics/Chemistry	A. Lampert & H. Schmithüsen	astrid.lampert(at)tu-braunschweig.de	LUCA3 - Lightweight Unmanned high Ceiling Aerial system – Antarctic applications
Physics/Chemistry	C. Mehlmann	carolin.mehlmann(at)mpimet.mpg.de	A hybrid sea ice model to estimate the impact of floe scale ice-ocean coupling on Antarctica's sea ice evolution
Physics/Chemistry	C. Melsheimer	melsheim(at)uni-bremen.de	Change of polar mesocyclone and polar low activity in the Antarctic – assessing the effects of global change
Physics/Chemistry	S. Paul	stephan.paul(at)lmu.de	Fast-ice bridge occurrence analysis (FIBOA)
Physics/Chemistry	M. Prange	mprange(at)marum.de	Combining global-scale climate model reconstructions, continental-scale and ultra-high-resolution ice sheet modelling, and field mapping and cosmogenic dating to reconstruct the glacial history of Antarctica
Physics/Chemistry	C. Redenbach & J. Freitag	Johannes.Freitag(at)awi.de	Structural anisotropy of Antarctic snow and firn: implications for firn compaction, gas transport, and enclosure
Physics/Chemistry	T. Ricken	tim.ricken(at)isd.uni-stuttgart.de	In silico modeling of biogeochemical processes in Antarctic pancake ice floes
Physics/Chemistry	T. Ronge	Thomas.Ronge(at)awi.de	A Spatially Integrated Signal of Antarctic Ice Sheet Dynamics and Paleoclimate
Physics/Chemistry	S. Röbber, C. Künzer, S. Arndt & P. Overduin	Sebastian.Roessler(at)dlr.de	High resolution remote sensing of fast ice and its role in the dynamics of the Antarctic and Arctic coasts
Physics/Chemistry	P. Seifert	seifert(at)tropos.de	COALA – Continuous Observations of Aerosol-cloud interaction in Antarctica
Physics/Chemistry	N. Wiedemann	nicolas.wiedemann(at)fom-net.de	Temperatures in the extreme: The Antarctic heating and freezing of the individual and collective “temper”
Physics/Chemistry	C. Wild & R. Drews	wildch(at)oregonstate.edu	SOS Antarctica– Slip Or Slide as main ice-flow mechanism of outlet glaciers in Antarctica
Physics/Chemistry	S. Willmes	willmes(at)uni-trier.de	Summertime sea-ice lead and floe-size dynamics in the Southern Ocean
Physics/Chemistry	O. Wurl, T. Badewien, H. Bange & D. Arevalo-Martinez	hbange(at)geomar.de	Exchange fluxes of climate-relevant trace gases off the Western Antarctic Peninsula*