

Monday, 22 September

09:00 - 09:30	Registration and poster setup	
09:30 - 10:10	Opening ceremony	
09:30-09:40	Welcome from Monika Rhein	
09:40-09:50	Welcome from Organisers (Ulrike Holzwarth and Alice Lefebvre)	
09:50-10:00	Overview Excellence Clusters (Will Brocas, Edmund Meredith, Rasoul Yousefpour)	
10:00-10:02	Academic and non-academic career options for marine scientists - Services and programmes offered at MARUM (Pitch)	Christina Klose
10:02-10:04	IMPRS-ESM - the structured doctoral programme in Earth system sciences and modelling (Pitch)	Antje Weitz
10:10-12:00	Session 1: "Africa and Tropics" chaired by Gerlinde Jung and Ulisse Cardini	
	10:10 - 11:10 Oral presentations	
10:10-10:30	Little Things Become Big - Bacterial mats reconquer coral reefs (Science Slam Presentation)	Hannah Brocke
10:30-10:32	Western Sahel: Separating natural variability from anthropogenic changes (Pitch)	Ulrike Holzwarth
10:32-10:34	Climate variability of the Last Interglacial (~125,000 years ago) interpreted from southern Caribbean fossil corals (Pitch)	Will Brocas
10:34-10:36	Coral reef functioning in upwelling-influenced Northwestern Costa Rica (Pitch)	Ines Stuhldreier
10:36-10:38	On the tracks of man-made radionuclides in the Indonesian Throughflow sediments (Pitch)	Daniela Pittauerová
10:38-10:40	Tropical tropospheric ozone from satellite observations with the Convective Clouds Differential (CCD) technique (Pitch)	Elpida Leventidou
10:40-10:42	The role of coastline-induced precipitation in the tropics (Pitch)	Martin Bregemann
10:42-10:44	Submarine groundwater discharge from tropical islands - a hidden nutrient pathway from land to sea (Pitch)	Nils Moosdorf
10:44-11:04	Climate and CO ₂ effects on the vegetation of southern tropical Africa over the last 37,000 years (Classic Presentation)	Vyacheslav Khon
	11:10 - 12:00 Poster presentations	
	Western Sahel: Separating natural variability from anthropogenic changes	Ulrike Holzwarth
	Climate variability of the Last Interglacial (~125,000 years ago) interpreted from southern Caribbean fossil corals	Will Brocas
	Coral reef functioning in upwelling-influenced Northwestern Costa Rica	Ines Stuhldreier
	On the tracks of man-made radionuclides in the Indonesian Throughflow sediments	Daniela Pittauerová
	Tropical tropospheric ozone from satellite observations with the Convective Clouds Differential (CCD) technique	Elpida Leventidou
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	Submarine groundwater discharge from tropical islands - a hidden nutrient pathway from land to sea	Nils Moosdorf

12:00 - 13:00		Keynote lecture by Victor Smetacek moderated by Ulrike Holzwarth and Gerlinde Jung	
12:00-12:30	Presentation		
12:30-13:00	Questions, discussion		
13:00 - 14:30		Lunch Break	
14:30 - 16:45		Session 2: “Pacific, Asia and Americas” chaired by Gopika Suresh and Oscar Alvarez	
	14:30 - 15:50	Oral presentations	
14:30-14:50	Quantifying the volume and frequency of bubble release from hydrocarbon seeps in the Gulf of Mexico (Classic Presentation)		Caroline Johansen
14:50-14:52	Real-time Evaluation of Natural Gas Composition and Origin from up to 2000 Meter Below the Seafloor (Pitch)		Sebastian Hammerschmidt
14:52-14:54	Dissolved neodymium isotopic composition of Hawaiian Coastal Waters and the water column at an offshore station (Pitch)		Henning Fröllje
14:54-14:56	Do mangrove crabs compete for <i>Rhizophora mangle</i> propagules? (Pitch)		Siel Wellens
14:56-15:16	Evolution of late Miocene to early Pliocene equatorial Pacific sea surface conditions: deciphering the state of the El-Niño-Southern-Oscillation (Classic Presentation)		Anna Joy Drury
15:16-15:18	Sea surface and subsurface temperature reconstructions off northern Chile (27.5°S) from 970,000 years to present (Pitch)		Gema Martínez Méndez
15:18-15:38	Feeding performance and energetic requirements of <i>Desmophyllum dianthus</i> - a cold-water coral thriving under low pH (Classic Presentation)		Sandra Maier
15:38-15:40	Interconnections of the different sub-surface carbon pools in wetlands (Pitch)		Norman Rüggen
15:40-15:42	Simulating variations of oceanic oxygen minimum zones in Holocene (Pitch)		Xu Xu
	15:50 - 16:45	Poster presentations	
	Real-time Evaluation of Natural Gas Composition and Origin from up to 2000 Meter Below the Seafloor		Sebastian Hammerschmidt
	Dissolved neodymium isotopic composition of Hawaiian Coastal Waters and the water column at an offshore station		Henning Fröllje
	Do mangrove crabs compete for <i>Rhizophora mangle</i> propagules?		Siel Wellens
	Sea surface and subsurface temperature reconstructions off northern Chile (27.5°S) from 970,000 years to present		Gema Martínez Méndez
	Interconnections of the different sub-surface carbon pools in wetlands		Norman Rüggen
	Simulating variations of oceanic oxygen minimum zones in Holocene		Xu Xu
16:45 - 17:45		Keynote lecture by Maja Schlüter moderated by Rebecca Stecker and Gema Martínez Méndez	
16:45-17:15	Presentation		
17:15-17:45	Questions, discussion		
18:00 - 19:00		MARUM outreach, technology and core repository (MARUM)	
19:00 - 21:00		Dinner (MARUM Hall)	

Tuesday, 23 September

09:00 - 11:45 Session 3: "Atlantic and Europe" chaired by Alice Lefebvre and Anna Joy Drury

09:00 - 10:45 Oral presentations

09:00-09:20	Developing a new tool for ecological niche analysis and Habitat Suitability Maps (Non-linear Presentation)	Chiara Magliozzi
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09:20-09:40	Surface-specific laser spectroscopy at the sea surface - seasonality and methodological development (Twin Talk)	Sarah Wise
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09:40-10:00	Better understanding and planning for change: marine spatial planning as a tool for interdisciplinarity (Twin Talk)	Kristian Laß
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10:00-10:02	The role of the Black Sea Commission in the protection of the Black Sea against pollution - instruments of legal and institutional regulation (Pitch)	Nina Khuchua
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10:02-10:04	Monitoring shipping emissions with in-situ measurements of trace gases (Pitch)	Lisa Kattner
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10:04-10:06	Molecular sensor-based monitoring of toxic algae species (Pitch)	Johanna Hessel
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10:06-10:08	Impact of harbor Seals on the Sylt-Rømø Bight food web: a modelling approach (Pitch)	Camille de la Vega
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10:08-10:10	Effect of rewetting on methane and nitrous oxide emissions at different microtopes in Schleswig-Holstein, Germany (Pitch)	Olga Vybornova
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10:10-10:12	Quantification of dissolved organic sulfur in the East Atlantic and Southern Ocean (Pitch)	Kerstin Ksionzek
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10:12-10:14	Multi-frequency imaging and quantification of shallow free gas (Pitch)	Zsuzsanna Toth
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10:14-10:16	Satellite-based retrieval of desert dust deposition into the Atlantic Ocean (Pitch)	Malte Jäger
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10:16-10:18	Last 1000 years of palaeo-environmental reconstruction via lake sediment analysis in the Eastern Carpathians, Northern Romania (Pitch)	Gabriela Florescu
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10:18-10:38	Ecophysiological role of an abundant gammaproteobacterium of the genus <i>Reinekea</i> during a spring phytoplankton bloom in the North Sea (Old School)	Burak Avci
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10:45 - 11:45 Poster presentations

	The role of the Black Sea Commission in the protection of the Black Sea against pollution - instruments of legal and institutional regulation	Nina Khuchua
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11:45 - 12:45	Keynote lecture by Caroline Robertson von Trotha moderated by Ulrike Holzwarth and Sarah Wise	
11:45-12:15	Presentation	
12:15-12:45	Questions, discussion	
12:45 - 14:15	Lunch Break	
14:15 - 17:30	Session 4: "Polar Regions" chaired by Gema Martínez Méndez and Georg Sebastian Völker	
	14:15 - 15:00 Oral presentations	
14:15-14:17	Coccolithophores in the Southern Ocean (Pitch)	Mariem Saavedra-Pellitero
14:17-14:19	Geological evidence of deglaciation during the last millennium, Admiralty Bay, West Antarctica (Pitch)	Ewa Demianiuk
14:19-14:21	Tracing the interplay of oceanographic variability and glacial activity in Woodfjorden (northern Spitsbergen) through the late Weichselian and the Holocene (Pitch)	Martin Bartels
14:21-14:23	Paleoceanography and Environmental Conditions in the Baffin Bay since the last ice age (Pitch)	Rebecca Jackson
14:23-14:25	Modeling the effect of meltwater on the habitat of Arctic planktonic foraminifera (Pitch)	Kerstin Kretschmer
14:25-14:45	Investigating changes in the climate- and ecosystem of Arctic sea ice using remotely operated vehicles (Classic Presentation)	Christian Katlein
14:45-14:47	Central Arctic Primary Production and its limiting factors during the record sea ice minimum in 2012 (Pitch)	Mar Fernandez-Mendez
14:47-14:49	Characterising the sea ice environment using a newly developed sensor array mounted on an under-ice trawl (Pitch)	Ben Lange
14:49-14:51	Coupling a regional climate model with the Finite Element Sea Ice -Ocean model for an Antarctic Ice Sheet study-ideas, expectations, challenges (Pitch)	Marta Kasper
	15:00 - 15:50 Poster presentations	
	Coccolithophores in the Southern Ocean	Mariem Saavedra-Pellitero
	Geological evidence of deglaciation during the last millennium, Admiralty Bay, West Antarctica	Ewa Demianiuk
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	Coupling a regional climate model with the Finite Element Sea Ice -Ocean model for an Antarctic Ice Sheet study-ideas, expectations, challenges	Marta Kasper
	15:50 - 16:40 Oral presentations	
15:50-15:52	Tracing ice-algae produced carbon in a changing Arctic Ocean using biomarker analyses (Pitch)	Doreen Kohlbach
15:52-15:54	Source area and age of particulate organic matter (POM) from an Arctic permafrost watershed (Lena Delta, Siberia) (Pitch)	Maria Winterfeld
15:54-15:56	Molecular Biogeochemistry of DOM in the Lena River Delta (Pitch)	Ivan Dubinenkov
15:56-15:58	Biogeochemical investigation of terrestrial permafrost cores from the North-Eastern Siberian Arctic (Pitch)	Janina Stapel
15:58-16:00	Microbial carbon transformation and the response of the involved microbial communities to a changing climate (Pitch)	Nadja Torres Reyes
16:00-16:15	Glass sponge communities and the role of their environment in the Weddell Sea, Antarctica (Pecha Kucha)	Luisa Federwisch
16:15-16:17	Climate change impacts on Antarctic benthos: ecological impacts of ice-shelf collapse on sponge communities (Pitch)	Rachel Downey
16:17-16:19	How will resource and diversity patterns alter benthic ecosystem functions in the Southern Ocean? (Pitch)	Heike Link
16:19-16:21	Transcriptomics of iron limitation in <i>Phaeocystis antarctica</i> (Pitch)	Mariam R. Rizkallah
16:21-16:36	The Brewer-Dobson circulation and polar ozone depletion (Pecha Kucha)	Martin Budde
	16:40 - 17:30 Poster presentations	
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17:30 - 19:00	Scientific networks: career boosting or time consuming?	
17:30-17:40	Introduction by Ulrike Holzwarth	
17:40-17:55	Presentation of the scientific networks	
18:00-19:00	Panel discussion moderated by Alice Lefebvre	
19:00 - 21:00	Conference dinner (NW1 building)	

Wednesday, 24 September

09:00 - 12:20 Session 5: "Global" chaired by Daniela Pittauerová and Andreas Hilboll		
09:00 - 10:30 Oral presentations		
09:00-09:20	Large impact on simulated terrestrial precipitation due to uncertainties in plant stomata sensitivity to rising atmospheric CO ₂ concentrations (Classic Presentation)	Nadine Mengis
09:20-09:35	Greenhouse gas emission rate estimates from airborne remote sensing (Pecha Kucha)	Thomas Krings
09:35-09:55	A Model for Behavioral Economics of Adaptation to Climate Change in Forestry (Twin Talk)	Rasoul Yousefpour
09:55-10:15	The IUP nadir ozone profile retrieval (Twin Talk)	Stefan Bötzel
10:15-10:17	Salinity gradient energy at river mouths. From theoretical potential to extractable energy (Pitch)	Oscar Alvarez
10:17-10:19	Impact of Orbital Forcing on Marine Productivity during Interglacials (Pitch)	Yunchang He
10:19-10:21	Assessment of eukaryotic communities in environmental samples: A workflow comparison for Next Generation Sequencing data (Pitch)	Kristin Hardge
10:21-10:23	Automatic Oil seep location estimation using satellite- borne Synthetic Aperture Radar images (Pitch)	Gopika Suresh
10:23-10:25	Discovering new seepage processes (Pitch)	Jens Schneider von Deimling
10:30 - 11:15 Poster presentations		
	Salinity gradient energy at river mouths. From theoretical potential to extractable energy	Oscar Alvarez
	Impact of Orbital Forcing on Marine Productivity during Interglacials	Yunchang He
	Assessment of eukaryotic communities in environmental samples: A workflow comparison for Next Generation Sequencing data	Kristin Hardge
	Automatic Oil seep location estimation using satellite- borne Synthetic Aperture Radar images	Gopika Suresh
	Discovering new seepage processes	Jens Schneider von Deimling
11:15 - 12:20 Oral presentations		
11:15-11:35	Leaching of Organic Plastic Additives under Marine Conditions (Classic Presentation)	Tim Jesper Suhrhoff
11:35-11:55	Distribution of Rare Earths and Yttrium in Diatom Shells: An Experimental Study (Classic Presentation)	Benjamin Birner
11:55-12:15	Climate engineering - uncertainty, optimization and application (Non-linear Presentation)	Ellias Feng
12:20 - 12:45 Closing Ceremony		
12:20-12:25	Dierk Hebbeln	
12:25-12:30	Alice Lefebvre and Ulrike Holzwarth	

The conference is held in the NW1 building. Other events are happening in the NW1 building, at ZMT or at MARUM (see [social events](#) for details). A map of the locations is available [here](#)