

DAY 1 – 04 OCTOBER 2011

09:00-10:00 Registration, poster hang-up & ice-breakerfast (MARUM Hall)

10:00-10:30	Welcome & Overview on the three Clusters of Excellence By Armine Avagyan (Hamburg), Ulrike Holzwarth (Bremen), and Jörn Schmidt (Kiel)	Geo-Building Hörsaal
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10:30-10:40 Go to a room!

10:40-12:00	Global and regional biogeochemical cycles (Convener: Armine Avagyan)	MARUM 2070
10:40-11:00	Judith Hauck (Alfred Wegener Institute for Polar and Marine Research) Carbonate sediments on Antarctic shelves and implications for a mechanism to buffer Ocean Acidification in the Southern Ocean	
11:00-11:20	Benjamin Runkle (Institute of Soil Science, KlimaCampus, University of Hamburg) Clues to scaling from a field site to a region: lessons from a peatland-forest mire in northeast Russia	
11:20-11:40	~~Regine Moll (Leibniz Center for Tropical Marine Ecology)~~ <i>Canceled talk. The time of the presentations of the session will be adjusted.</i>	
11:40-12:00	Maija I. Heller (IFM-GEOMAR) Uncovering the key processes involved in manganese biogeochemical cycling in the Ocean.	

10:40-12:00	Plankton dynamics: influencing factors and resulting impacts (Convener: Martina Löbl)	Geo-Building Hörsaal
10:40-11:00	Isabelle Schulz (Alfred Wegener Institute for Polar and Marine Research) Response of a flagellate dominated plankton community to artificial iron enrichment in the Southern Ocean	
11:00-11:20	Stefan Thiele (MPI for Marine Microbiology) How does iron fertilization influence the bacterioplankton community? – A LOHAFEX report	
11:20-11:40	Alexandra Kroll (IHF, KlimaCampus, University of Hamburg) Modelling the interannual variability of two key phytoplankton groups	
11:40-12:00	Sebastian Sonntag (IHF, KlimaCampus, University of Hamburg) Phytoplankton species shifts affect upper ocean dynamics through biological-physical feedback mechanisms	

12:00-13:30 Lunch (Mensa)

13:30-15:00	Past, present and future impacts of climate on society (Convener: Andreas Schmidt)	MARUM 2070
13:30-13:50	~~Carsten Lemmen (Institute of Coastal Research, Helmholtz-Zentrum Geesthacht)~~ <i>Canceled talk. The time of the presentations of the session will be adjusted.</i>	
13:50-14:10	Henry Wu (MARUM) Sub-seasonal climate reconstruction from southern Caribbean corals during the Classic Maya collapse	
14:10-14:30	Liang Yang (CLISEC, KlimaCampus, University of Hamburg) Trouble in mega-cities under a changing climate: Water scarcity and flood in Pearl River Delta, China	
14:30-14:50	Michael Link & Jasmin Kominek (CLISEC, KlimaCampus, University of Hamburg) The impacts of climate change on societal stability: modelling of complex systems	

13:30-15:00	Marine ecology in a changing climate (Convener: Rainer Kiko)	Geo-Building Hörsaal
13:30-13:50	Jorge Rafael Bermúdez (IFM-GEOMAR) Carbon dioxide affects copepod production by reducing nutritional quality of their algal diet	
13:50-14:10	Chuanxi Xing (IHF, KlimaCampus, University of Hamburg) Modeling the life cycle of a dormant species in the North Sea	
14:10-14:30	Matthias Paulsen (Institute for Baltic Sea Fisheries) Docasahexaenoic acid (DHA) affects nutritional condition of larval herring in the field	
14:30-14:50	Ruiju Tong (Jacobs University) Modelling the potential distribution of cold-water corals based on terrain parameters	

15:00-15:30 Coffee break (MARUM)

15:30-17:30	Poster Session	MARUM Hall
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17:30-18:30	Keynote lecture by Prof. Dr. Jürgen Scheffran (CLISEC, KlimaCampus, University of Hamburg) Climate change and security: conflict or cooperation? (Convener: Bevis Fedder)	Geo-Building Hörsaal
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18:30-19:00	Information on early-career scientist organisation and meetings (Convener: Ulrike Holzwarth)	Geo-Building Hörsaal
18:30-18:45	YOUARES 2.0 - 2nd Young Marine Research network meeting and conference 2011: Oceans amidst science, innovation and society Stefan Meyer, Association for Marine Aquaculture, Büsum	
18:45-19:00	Young Earth System Scientists Florian Rauser, Max Planck Institute for Meteorology, Hamburg	

19:00 Conference Dinner (MARUM hall)

DAY 2 – 05 OCTOBER 2011

09:00-10:00	Changing atmospheric dynamics? Insights from models and observations (Convener: Sebastian Sonntag)	MARUM 2070
09:00-09:20	Felix Bunzel (Max Planck Institute for Meteorology) Stratosphere dynamics in a changing climate - sensitivity simulations with ECHAM6	
09:20-09:40	Katrin Lonitz (Max Planck Institute for Meteorology) Trade-cumuli statistics compiled from cloud radar measurements on Barbados	
09:40-10:00	Vera Schemann (Max Planck Institute for Meteorology) Scale (in)dependency of statistical cloud cover parametrizations	

09:00-10:00	Interactions on the seafloor: sediment dynamics and gas emissions (Convener: Lucia Korff)	Geo-Building Hörsaal
09:00-09:20	Eva Kwoll (MARUM, University of Bremen) Transport of suspended matter in the form of turbidity clouds in the Elbe Estuary	
09:20-09:40	Stefan Wenau (MARUM, University of Bremen) Structure of fluid seepage sites and associated BSR distribution on the salt-controlled Angola continental margin	
09:40-10:00	Jan-Hendrik Körber (MARUM, University of Bremen) Investigating oil and gas seepage in the Eastern Black Sea by remote sensing	

10:00-11:00 Coffee break + revisiting posters (MARUM)

11:00-12:00	Key note lecture by Prof. Dr. Mojib Latif (IFM-GEOMAR) Climate change - fact or fiction? (Convener: Leticia Cotrim da Cunha)	Geo-Building Hörsaal
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12:00-13:30 Lunch (Mensa)

13:30-15:15	Societal responses to climate and marine issues - assessing approaches and challenges (Convener: Ewelina Riekens)	MARUM 2070
13:30-13:50	Korbinian Freier (International Max Planck Research School on Earth System Modelling) Traditional Management and Solar Energy - Options for Adapting Pastoralism in Semi-Arid Areas to Climate Change	
13:50-14:10	James Hollway (Bremen International Graduate School of Social Sciences) Taking Stock of Global Fisheries Governance, 1950-2010	
14:10-14:30	Ute Kapaun (Department of Economics, University of Kiel) The EU multiannual plan for the Baltic cod stock - A reasonable fishery management option?	
14:30-14:50	Bevis Fedder (Research Center for European International Law/GLOMAR, Bremen) Access and Benefit Sharing in the Marine Realm - Challenges to Justice, Effectiveness, and Research and Development	
14:50-15:10	Ana Ivanova & Andreas Schmidt (CI-SAP, Research Group Media Constructions of Climate Change) Public Legitimization of Global Climate Politics? A Comparative Study of Media Coverage in 18 Countries	

13:30-15:15	Understanding ocean & climate dynamics (Convener: Cyril Giry)	Geo-Building Hörsaal
13:30-13:50	Lucia Korff (University of Bremen) Evidence for climate-driven cyclic changes in bottom water ventilation from paleomagnetic, rockmagnetic and geochemical records of Late Pleistocene sediments from the North Pacific	
13:50-14:10	Vera Barbara Bender (MARUM, University of Bremen) Holocene shelf-slope sediment dynamics off Uruguay (36°S) under the light of shifting paleoceanographic fronts	
14:10-14:30	Bente Tiedje (Institute of Oceanography, KlimaCampus, University of Hamburg) Potential predictability of North Atlantic heat transport based on an oceanic state estimate	
14:30-14:50	Laura Niederdrenk (Max Planck Institute for Meteorology) Modelling the Arctic hydrologic cycle	
14:50-15:10	Anja Rösel (Center for Marine and Atmospheric Research Institute of Oceanography, University of Hamburg) Melt ponds on Arctic sea ice determined from MODIS satellite data	

15:15-15:45 Coffee break (Geo-Building)

15:45-16:15	Awarding ceremony and closing	Geo-Building Hörsaal
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LIST OF POSTERS

Family name	First name	Affiliation	Title	Subject	Poster label
Wilkens	Nina	Institute of Geophysics, University of Hamburg	A 3D full-Stokes finite-element model for Pine Island Glacier	Polar climate	AC2
Hand	Ralf	IFM-GEOMAR	Modelled Atmospheric Response to SST Variability in the Gulf Stream Region	Atmospheric dynamics	AD1
Zhuang	Guangchao	Organic Geochemistry Group, MARUM, University of Bremen	Trace Analysis of Methylated Substrates in Marine Sediment	Biogeochemistry	BG1
Winterfeld	Maria	Alfred Wegener Institute for Polar and Marine Research & University of Bremen, Dept. of Geosciences	Molecular characterization of terrestrial, permafrost-derived organic matter along a soil-river-ocean transect (Lena Delta, NE Siberia)	Biogeochemistry	BG2
Basse	Andreas	MARUM/AWI	Can laterally advected intermediate nepheloid layers affect the efficiency of the biological pump? – a biomarker study of sub-surface alterations of marine snow aggregates off Cape Blanc, NW Africa	Biogeochemistry	BG3
Schwichtenberg	Fabian	CI&AP	Impact of alkalinity fluxes on the carbon cycle in the southern North Sea	Biogeochemistry	BG4
Grombik-Suwała	Iwona	IFM-GEOMAR, Marine Biogeochemie	Collected data? Did you QC the data and submit to data-center?	Database/chemistry	BG5
Kleber	Joscha	Institute of Physical Chemistry, Christian-Albrechts-University Kiel, Future Ocean	Studying heterogeneous monolayer kinetics by quantitative VSFG spectroscopy: The oleic acid - ozone reaction system	Chemistry	C1
Mewes	Konstantin	Alfred-Wegener-Institut für Polar- und Meeresforschung	Geochemical processes in sediments of the German license area for polymetallic nodule exploration in the NE Pacific Ocean	Geochemistry	C2
Hoshyaripour	Gholamali	Institute of Geophysics, KlimaCampus, University of Hamburg	How do volcanoes produce bio-available iron: New insights from modeling gas/aerosol-ash interaction inside the hot core of volcanic plumes	Geophysics	GP1
Metzner	Doreen	IFM-GEOMAR	Southern Hemisphere climate response to an extremely large volcanic eruption	Geophysics	GP2
Xing	Junhui	Marine Technology – Environmental Research Group, University of Bremen	Shallow gas transport and reservoirs in the vicinity of deeply rooted mud volcanoes in the central Black Sea	Geophysics	GP3
Toth	Zsuzsanna	University of Bremen	Geoacoustic properties of shallow gas accumulations in Baltic Sea sediments – which can be used for quantification?	Geophysics	GP4
Havemeyer	Sandra	MARUM, University of Bremen	Polyphosphate storage in <i>Beggiatoa alba</i>	Microbiology	MB1
Kraft	Beate	Microbial fitness group, Max-Planck-Institute for Marine Microbiology	Competition between microbial nitrate reduction processes	Microbiology	MB2
Zhu	Rong	MARUM, University of Bremen	Detection of Microbial Biomass in Subseafloor Sediments by Pyrolysis-GC/MS	Microbiology	MB3
Wolff	Katrin	Alfred Wegener Institute for Polar and Marine Research & MARUM / University of Bremen	Seasonality of dust found in the Holocene and glacial period of the NGRIP ice core.	Paleoclimate	PC1
Mildner	Tanja	Institute of Oceanography, University of Hamburg	Loop Current variability due to wind stress and reduced sea level during the Last Glacial Maximum (LGM)	Paleoclimate	PC3
Giry	Cyril	MARUM - University of Bremen	Changes in tropical Atlantic temperature seasonality over the last 6200 years as documented in coral Sr/Ca records	Paleoclimate	PC4
Zhang	Dan	Max Planck Institute for Meteorology; KlimaCampus, University of Hamburg	Climate variability in China in the last 1200 years in simulations and reconstructions	Paleoclimate	PC5
Holzwarth	Ulrike	MARUM, University of Bremen	Separating natural variability from anthropogenic induced changes: an example from Western Sahel	Paleoclimate	PC6
Kuechler	Rony	MARUM – University of Bremen	Rainfall variability over NW Africa during the last glacial-interglacial cycle: a δD record of the last 120 ka	Paleoclimate	PC7
Vallé	Francesca	MARUM, University of Bremen	A palynological study to assess the influence of the Atlantic overturning circulation on West African vegetation and climate during the Pliocene	Paleoclimate	PC9
Heinze	Mathias	Max Planck Institut für Meteorologie	Modeling the full carbon cycle during the PETM	Paleoclimate	PC10
Hoetzel	Sebastian	MARUM, University of Bremen	Impact of Benguela Upwelling (Namibia) - Intensities of the last 10 Ma and Effects on Continental Vegetation	Paleoclimate	PC11
Chen	Wenwen	University of Bremen, GLOMAR	Reconstruction of sea surface temperature in the eastern Indian Ocean during the last 22000 years	Paleoclimate	PC12
Uliana	Eleonora	MARUM, University of Bremen	Testing a new temperature proxy in an eastern boundary current system (SE Pacific off Chile)	Paleoclimate	PC13
Saavedra-Pellitero	Mariem	University of Bremen	Pacific sector of the Southern Ocean coccolithophores and their paleoceanographic significance	Paleoclimate	PC14
Preu	Benedict	MARUM – University of Bremen	Sedimentary pattern on the northern Argentine slope: the impact of North Atlantic Deep Water on southern hemisphere slope architecture	Paleoclimate	PC15
Nagai	Renata	Oceanographic Institute, São Paulo University, Brazil	Tracing the Holocene impact of the La Plata River over the S Brazilian shelf	Paleoclimate	PC16
Loebl	Martina	MARUM, GLOMAR	Success of the new phytoplankton species <i>Mediopyxis</i> in the North Sea	Plankton ecology	PE1
Fuchs	Nike	Alfred Wegener Institut Bremerhaven	Valve Size Frequency distribution of <i>Fragilariopsis kerguelensis</i> as a paleoproxy for Southern Ocean Productivity	Plankton ecology	PE2
Kiko	Rainer	IFM-GEOMAR, Future Ocean	Acclimation and adaptation to hypoxia resolved through transcriptional profiling of in situ fixed zooplankton	Plankton ecology	PE3

Family name	First name	Affiliation	Title	Subject	Poster label
Kunst	Oliver	KlimaCampus / Universität Hamburg	Reducing cache misses on tetrahedral meshes by intelligent element numbering	Physical oceanography	PO1
Kuhlmann	Julian	GFZ Potsdam	Improved Modelling of Sea-Level Patterns by Incorporating Self-Attraction and Loading	Physical oceanography	PO2
Brüggemann	Nils	Universität Hamburg	Upper-ocean small and meso-scale processes	Physical oceanography	PO3
Brüdgam	Michael	KlimaCampus/Clisap Hamburg	Towards the ability of the Adjoint technique to recover decadal variability in the North Atlantic	Physical oceanography	PO4
Roessler	Achim	Institute for Environmental Physics, Oceanography Division, University of Bremen	Sustained observations of the North Atlantic Current	Physical oceanography	PO5
Li	Mingming	Department of Oceanography, Institute of Environmental Physics, University of Bremen	A study of diapycnal mixing in the North Atlantic	Physical oceanography	PO6
Köhler	Janna	Institute of Environmental Physics, Department of Oceanography, University Bremen	Temporal variability of internal waves in the Deep Western Boundary Current at 16°N	Physical oceanography	PO8
Carson	Mark	Institute of Oceanography, KlimaCampus, Universität Hamburg	Low-frequency variability of regional sea level in millennium climate model simulations	Physical oceanography	PO9
Schleupner	Christine	Research Unit Sustainability and Global Change, KlimaCampus, Hamburg University and CEN	Modelling the Implications of Climate Change for European Freshwater Wetland Distributions	Societal-climate interactions	SC1
Riekens	Ewelina	GLOMAR/artec	The new “macro-regional cooperation approach” and the EU Strategy for the Baltic Sea Region.	Societal-climate interactions	SC2
Traini	Camille	Institut für Geowissenschaften Exzellenzcluster "Ozean der Zukunft", Meeresspiegelanstieg und Küstenerosion	Estuarine processes and grain size distribution of suspended particulate matter within the São-Francisco Delta, Brazil	Sediment dynamics	SD1
Held	Philipp	Institute of Geosciences at Kiel University	On the dynamics of Internal Waves in the Ems-Estuary	Sediment dynamics	SD2
Bartzke	Gerhard	MARUM, University of Bremen	On the stabilizing influence of Silt on Sand beds	Sediment dynamics	SD3

POSTERS OF THE EXCELLENCE CLUSTERS AND GRADUATE SCHOOLS					
MARUM	-	MARUM, Bremen	The Ocean in the Earth System	Excellence Cluster	MARUM
KlimaCampus	ClisAP	ClisAP/KlimaCampus, Hamburg	ClisAP/KlimaCampus: Excellent Climate Research in Hamburg	Excellence Cluster	ClisAP
Söding	Emanuel	The Future Ocean, Kiel	The Future Ocean – 2012 and beyond	Excellence Cluster	Future Ocean
Klose	Christina	GLOMAR, Bremen	The Bremen International Graduate School for Marine Sciences – GLOMAR	Graduate School	GLOMAR
Avagyan	Armine	SICSS, Hamburg	Interdisciplinary MSc and Doctoral Education in Climate System Science at the University of Hamburg	Graduate School	SICSS
Antia	Avan N.	ISOS, Kiel	Education for „The Future Ocean“: Kiel Marine Sciences	Graduate School	ISOS

POSTERS WITHDRAWN					
Sasgen	Ingo	German Centre for Geosciences GFZ, Geodesy and Remote Sensing, Potsdam	Accumulation variability in West Antarctica related to ENSO from satellite gravimetry	Polar climate	AC1
Khélifi	Nabil	IFM-GEOMAR	Changes in North Atlantic deep water circulation, 3.3 – 3.0 Ma	Paleoclimate	PC8
Chacón-Barrantes	Silvia	CORELAB, University of Kiel	Numerical modelling of the morphological changes caused by tsunamis on Reef Islands.	Sediment dynamics	SD4
Karbe	Fritz Richard	Institute of Environmental Physics, University of Bremen	Deep Western Boundary Current observations off Flemish Cap during 2009 - 2011.	Physical oceanography	PO7
Liu	Huadong	Geosystem modeling, FB5, Universität Bremen	Hydroclimatologic variability in the Tropics during Termination 1 and the Holocene	Paleoclimate	PC2