



| Monday, 13.09.2010

9:00 – 10:30		
	OPENING SESSION	HÖRSAAL G
9:00 – 9:15	Welcome	Secretary of State Dr. C. Andreßen
9:15 – 9:30	Welcome & Overview	M. Visbeck
8 min each	Session 1	K. Schrottke
	Session 2	T. Bosch
	Session 3	A. Vafeidis
	Session 4	F. Temps
	Session 5	C. Heinze
	Session 6	S. Krastel
	Session 7	K. Rehdanz
10:30 – 11:00		
COFFEE BREAK		
11:00 – 12:30		
	PLENARY SESSION 1:	RIVER MOUTH SYSTEMS
	HÖRSAAL G	
	Chair: K. Stattegger	
11:00 – 11:45	James P.M. Syvitski	Both Sea-Level Rise and Accelerated Subsidence put Deltas at risk
11:45 – 12:30	Charles A. Nittrouer	Global Change and the Role of Continental-Margin Sedimentation
12:30 – 14:00		
LUNCH BREAK		
14:00 – 17:30		
	WORKSHOP 1a:	SHORT COURSES ON RIVER MOUTH SYSTEMS
	OHP 1, SEM 111	(This workshop will start on 12.9., 14:00 – 17:30)
	J.P.M. Syvitski	



| Monday, 13.09.2010

14:00 – 17:30	WORKSHOP 2a: HÖRSAAL A Chairs: T. Bosch & D.J. Miller	CORAL GENOMICS
14:00 – 14:45	Keynote: David J. Miller	The Coral Genome: Implications for Coral Biology and Animal Genome Evolution
14:45 – 15:30	Sylvian Foret	Coral Evolutionary Genomics
15:30 – 16:00	COFFEE BREAK	
WORKSHOP 2a continued	Marcelo Kitahara	Were Climate and Ocean Chemistry changes the Driving Forces for the Colonization of Deep-Sea Environments by Scleractinian Corals?
16:00 – 16:30		
16:30 – 17:00	Konstantin Khalturin	The Aurelia Project
18:00	ICEBREAKER	



| Tuesday, 14.09.2010

9:00 – 10:30		
PLENARY SESSION 2: RECENT BREAKTHROUGHS IN CORAL RESEARCH		
HÖRSAAL G		
Chairs: T. Bosch & D.J. Miller		
9:00 – 9:45	Terry Hughes	Rising to the Challenge of Sustaining Coral Reef Resilience
9:45 – 10:30	Denis Allemand	Coral Biomineralization: How Sensitivity to Ocean Acidification may be explained by the Physiology?
10:30 – 11:00 COFFEE BREAK		
11:00 – 12:30		
PLENARY SESSION 3: SEA-LEVEL RISE: PAST, PRESENT AND FUTURE		
HÖRSAAL G		
Chair: A. Vafeidis		
11:00 – 11:30	Anny Cazenave	Sea-Level Budget over the past few Decades and recent Years: a Review
11:30 – 12:00	Colin Woodroffe	Sea-Level Rise and the Vulnerability of low-lying Coasts
12:00 – 12:30	Mark Siddall	Ways to use Paleo Sea-Level Data to understand Future Change
12:30 – 14:00 LUNCH BREAK		
14:00 – 17:30		
WORKSHOP 2b CORAL DISEASES		
HÖRSAAL A		
Chairs: V. Weis & T. Bosch		
14:00 – 14:45	Keynote: Virginia Weis	The Regulation of Cnidarian-Dinoflagellate Symbioses: In Sickness and in Health
14:45 – 15:30	Thomas Bosch	The Origin of the Immune System
15:30 – 16:00 COFFEE BREAK		
16:00 – 16:30	Tomislav Domazet-Loso	Phylostratigraphic Tracking of Disease-Associated Genes
16:30 – 17:00	Jörg Wiedenmann	Biomarkers of Coral Health and Growth



| Tuesday, 14.09.2010

17:00 – 17:20	René Augustin	Hydra Immunity – A Tale of two Barriers
17:20 – 17:40	Ulrich Kürn	The Hydra viridissima Holobiont: towards understanding a complex Team of Players
14:00 – 17:30	WORKSHOP 3a: HÖRSAAL F Chair: A. Vafeidis	SEA-LEVEL RISE
14:00 – 14:10	Athanasios Vafeidis	Welcome and Introduction
14:10 – 14:50	Andrew Kemp & Benjamin Horton	Sea-Level Variations over the Past two Millennia
14:50 – 15:30	Karl Stattegger, Daniel Unverricht, Peter Feldens & Dung Bui Viet	Meltwater Pulse 1C: Last charge-scale Reorganisation of the Coastal Zone
15:30 – 16:00	COFFEE BREAK	
16:00 – 16:30	Claus Böning	Regional Variations of Decadal Sea-Level Change
16:30 – 17:15	Jochen Hinkel	A Global Assessment of Coastal Vulnerability with the DIVA Model
17:30 – 19:00	POSTERSESSION 1b	Rivermouth Systems
	POSTERSESSION 2c	Recent Breakthroughs in Coral Research
	POSTERSESSION 3b	Sea-Level Rise
19:30	PUBLIC EVENT (in German) KUNSTHALLE	Die Ölkatastrophe im Golf von Mexiko – was bleibt?



| Wednesday, 15.09.2010

9:00 – 10:30 **PLENARY SESSION 4** **CHEMISTRY AT MARINE INTERFACES**
HÖRSAAL G
 Chair: G. Friedrichs

9:00 – 9:45 | Michael Grunze Chemical and Physical Cues in Marine Fouling
 9:45 – 10:30 | Heather Allen Molecular Organization at the Ocean Surface:
 Ions, Water and the Microlayer

10:30 – 11:00 COFFEE BREAK

11:00 – 12:30 **PLENARY SESSION 5:** **THE OCEANIC CO₂-SINK:**
HÖRSAAL G **FROM THE PAST TO THE FUTURE**
 Chairs: B. Schneider
 & T. Slawig

11:00 – 11:30 | Christoph Heinze The Ocean Carbon Cycle and Climate – what we may
 learn from the Paleorecord and how to prepare
 for entering unknown Territory in the Future
 11:30 – 12:00 | Sara Mikaloff-Fletcher What can we learn about the Southern Ocean
 Carbon sink from Atmospheric O₂/N₂ and CO₂?
 12:00 – 12:30 | Samar Khatiwala Reconstruction of the Ocean sink of Anthropo-
 genic Carbon over the Industrial Era

12:30 – 14:00 LUNCH BREAK

14:00 – 15:35 **WORKSHOP 4a:** **CHEMISTRY AT MARINE INTERFACES, SESSION 1**
HÖRSAAL A **(OCEAN-ATMOSPHERIC COUPLING)**
 Chair: R. v. Glasow

14:00 – 14:35 | Barbara d'Anna Photo-activated Reactions at the Air-Sea Interface
 14:35 – 15:10 | Franz Geiger Chirality in Ocean-Atmosphere Coupling
 15:10 – 15:35 | Bastian Kern Coupling an Ocean Model to the ECHAM5/MESSy
 Atmospheric Chemistry (EMAC) Model



| Wednesday, 15.09.2010

16:00 – 17:30	WORKSHOP 5b: HÖRSAAL F Chairs: S. Khatiwala & B. Schneider	THE OCEANIC CO₂-SINK: FROM THE PAST TO THE FUTURE, SESSION 2
16:00 – 16:15	Iris Kriest	The Sensitivity of Global Biogeochemical Models to different Remineralisation Length Scales and Production Parameters: Some Attempts to Constrain Parameterisations of Biogeochemistry
16:15 – 16:30	Anke Dürkop	Modeling CaCO ₃ Calcite Dissolution Kinetics
16:30 – 16:45	Tatjana Ilyina	Predicting Time Scales of detectable Changes in Ocean Chemistry due to Shifts in Deep-Sea Carbonate Dissolution
16:45 – 17:00	Svetlana Losa	Data Assimilation in Biogeochemical Modelling
17:00 – 17:15	Johannes Rückelt	Sensitivity Analysis and Parameter Estimation for a Marine Biogeochemical Model
17:30 – 19:00	POSTERSESSION 4c	Chemistry at Marine Interfaces
	POSTERSESSION 5e	The Oceanic CO ₂ -Sink: From the Past to the Future
19:00	SYMPOSIUM DINNER	MENSA



| Thursday, 16.09.2010

9:00 – 10:30	PLENARY SESSION 6: HÖRSAAL G	TRACING TSUNAMI IMPACTS ON- AND OFFSHORE
	Chairs: S. Krastel & K. Schwarzer	
9:00 – 9:30	Benjamin Horton	Identification of Paleoearthquakes in Holocene Sedimentary Sequences of Coastal Northern Sumatra, Indonesia
9:30 – 10:00	Philip Liu	Some Open Research Questions concerning Tsunami Inundation and Sediment Transport
10:00 – 10:30	Kazuhisa Goto	Identification of Tsunami Boulders at Ryukyu Islands, Japan
10:30 – 11:00	COFFEE BREAK	
11:00 – 12:30	PLENARY SESSION 7: HÖRSAAL G	CLIMATE ENGINEERING
	Chairs: B. B. Jia & A. Proelß	
11:00 – 11:30	Catherine Redgwell	Climate Engineering and International Law
11:30 – 12:00	Sjak Smulders	Stratospheric SO ₂ Injection and Climate Change Economics
12:00 – 12:30	Tim Kruger	An Analysis of the feasibility of adding Alkalinity to the Ocean to enhance its Capacity to act as a Carbon Sink and to counteract the effect of Ocean Acidification
12:30 – 14:00	LUNCH BREAK	



| Thursday, 16.09.2010

14:00 – 15:35	WORKSHOP 4d: HÖRSAAL A Chair: F. Geiger	CHEMISTRY AT MARINE INTERFACES, SESSION 3 (HETEROGENEOUS PROCESSES)
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14:00 – 14:35	Reinhard Zellner	Heterogeneous Chemistry of Atmospheric Surfaces in Marine Environments
14:35 – 15:00	Cornelius Zetzsch	Halogen Activation from Sea-Salt Aerosol, studied in Smog-Chamber Experiments and Model Calculations
15:00 – 15:35	Hartmut Herrmann	Atmospheric Multiphase Chemistry and Ocean-Atmosphere Interaction

14:00 – 15:35	WORKSHOP 6a: HÖRSAAL F Chair: B. Horton & S. Krastel	TRACING TSUNAMI IMPACTS ON- AND OFF-SHORE, SESSION 1
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14:00 – 14:05	Sebastian Krastel	Welcome and Outline of the Session
14:05 – 14:25	Robert Weiss	The Generation of Tsunami deposits Offshore and their Preservation Potential
14:25 – 14:45	Anders Solheim	What Causes Submarine Landslides and when are they Tsunamigenic?
14:45 – 15:05	Carl B. Harbitz	Recent Tsunami Modelling and Consulting at ICG/NGI
15:05 – 15:20	Cristobál Castro	Space-Time Adaptivity on Geophysical Problems
15:20 – 15:35	Klaus Schwarzer	Tsunami Impacts in the Andaman Sea Region – Thai-German Research Cooperation TRIAS

15:30 – 16:00	COFFEE BREAK	
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| Thursday, 16.09.2010

16:00 – 17:25 **WORKSHOP 4e: HÖRSAAL A** **CHEMISTRY AT MARINE INTERFACES, SESSION 4**
 Chair: H. Herrmann **(AIR-SEA GAS EXCHANGE)**

16:00 – 16:25	Irene Stemmler	Air-Sea Exchange of semivolatile Organic Compound: Wind and/or Sea Surface Temperature Control of Volatilization studied using a coupled General Circulation Model
16:25 – 16:50	Hiroshi Tanimoto	High-Resolution Measurement of Multiple Volatile Organic Compounds dissolved in Seawater using Equilibrator Inlet-Proton transfer Reaction-Mass Spectrometry (EI-PTR-MS)
16:50 – 17:25	Roland v. Glasow	Halogen Chemistry in the Tropical Atlantic Ocean Boundary Layer

16:00 – 17:40 **WORKSHOP 6b:** **TRACING TSUNAMI IMPACTS ON- AND**
HÖRSAAL F **OFFSHORE, SESSION 2**
 Chair: S. Khoikiattiwong & K. Schwarzer

16:00 – 16:20	Witold Szczucinski	What is left in Geological Record from 2004 Tsunami on continental Shelf and Coast of Thailand
16:20 – 16:40	Doroonwan Sakuna	Sedimentology and Geochemistry of Deposits Offshore Khao Lak (Andaman Sea, Thailand) created by the 2004 Indian Ocean Tsunami
16:40 – 17:00	Dominik Brill	Predecessors of the 2004 Indian Ocean Tsunami in Thailand Paleo-Event deposits from Phra Thong and Ban Bang Sak
17:00 – 17:20	Semeidi Husrin	Tsunami Attenuation and Performance by coastal FORests (TAPFOR)-Project Overview and Progress
17:20 – 17:40	Gunilla Kaiser	Local Tsunami risk Assessment for the Andaman Sea Coast of Thailand



| Thursday, 16.09.2010

14:00 – 17:30	WORKSHOP 7a HÖRSAAL K Chair: K. Rehdanz	CLIMATE ENGINEERING
14:00 – 14:30	Gregor Betz	Evaluating CE by Analogy
14:30 – 15:00	Sebastian Harnisch	Governing Climate Engineering: Regime Building under Uncertainty
15:00 – 15:30	Iris Grossmann	Decision Analytic Assessment of the Benefits of Hurricane Modification
16:00 – 16:30	Friederike Herrmann	Climate Engineering and International Environmental Law – Call for a new Legal Framework?
16:30 – 17:00	Harald Ginzky	Ocean Fertilization – in Search of a Legally Binding Regulation
17:00 – 17:30	Timo Goeschl	Strategic Intergenerational Technology Transfer: The Case of Geoengineering
17:30 – 19:00	POSTERSESSION 6c LABTOURS 4f	TSUNAMI IMPACTS ON- AND OFFSHORE CHEMISTRY