

zmt Report 2009/2010



Research
Capacity Building
Coordination

zmt
Leibniz Center
for Tropical Marine Ecology

zmt Report 2009-2010

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Introduction



The reporting period, 2009 and 2010, was marked by two major events, namely the acceptance of the Center for Tropical Marine Ecology (ZMT) into the Leibniz Association as a full member and the arrival of its new director. At the beginning of 2009 the ZMT became a full member of the Leibniz Association following its successful second evaluation by the German Council of Science and Humanities (Wissenschaftsrat). The first evaluation in 2006 had recommended the ZMT for full membership; hence an initial period as an associate member of the Leibniz Association began. At the end of 2010 Prof. Dr. Hildegard Westphal became the ZMT's new director and professor for Geology of the Tropics in a joint appointment with the University of Bremen. She replaced Prof. Dr. Venugopalan Ittekkot, who had successfully headed the institute for a period of ten years.

As a member of the Leibniz Association, the ZMT continued its efforts to develop the institutional structure in line with the recommendations of the German Council of Science and Humanities and the International Scientific Advisory Board of the ZMT. As stipulated for Leibniz centres, a research programme was developed. Its three main

programme areas are: (1) Structure and Function of Tropical Coastal Ecosystems, (2) Changes in Tropical Coastal Ecosystems: Impact of and Strategies for Sustainability, (3) Capacity Building and Coordination.

Research activities at the ZMT continued to focus on long-term joint research projects in cooperation with universities and research institutions in Indonesia (SPICE), China (LANCET), southern Africa (GENUS) and Vietnam (Can Gio). These projects addressed issues related to the function and structure of tropical coastal ecosystems, their resources and use by man, and their resilience to damaging impacts. Scientific information was collected with regard to the development of integrated coastal management strategies. Two of the main projects at the ZMT received special acknowledgement based on their excellent results: The bilateral Chinese-German project LANCET was extended for two additional years until 2011. SPICE, a German-Indonesian research programme, completed its second phase in 2010. After an evaluation, the bilateral inter-ministerial meeting held in Berlin in June 2010 recommended the continuation of the programme in a third phase.

At the same time the ZMT contributed to the development of new long-term projects in the regions of southern Africa and China. These efforts arose from discussions with potential new partners during the visits of delegations of the Federal Ministry for Education and Research (BMBF) to South Africa, Namibia and China. In the southern African region a detailed framework document is being prepared under the name of SPACES (Science Partnerships for the Assessment of Complex Earth System Processes). The development of a strong and committed partnership between German and southern African research institutions is the overall goal of the SPACES programme, which is a contribution to the “Earth System and Sustainability Research Initiative” of the BMBF. In addition, a project is being developed in close cooperation with the Institute of Marine Sciences of the University of Dar es Salaam in Zanzibar, Tanzania, to study changes in East African coastal ecosystems and the impact on ecosystem functions and services. In China, the ZMT is taking part in projects within the overall initiative on “Central Asia: Monsoon Dynamics and Geocosystems”.

In response to its membership in the Leibniz Association, the ZMT changed its name from Center for Tropical Marine Ecology to Leibniz Center for Tropical Marine Ecology, as well as its legal form from a registered association to a limited liability corporation (GmbH). In conjunction with its membership in the Leibniz Association the ZMT also gained access to funding within the Leibniz system, which provides joint federal and state financing, thus securing a stable financial basis. The funds were allocated to the expansion of the ZMT’s facilities and to the development of its four planned departments: Biogeochemistry / Geology, Ecology, Ecological Modelling and Social Sciences.

The ZMT subsequently advertised four new professorships: Coral Reef Ecology and Biogeochemistry / Geology in cooperation with the University of Bremen, and Ecological Modelling and Social Sciences in cooperation with Jacobs University Bremen. The positions were filled in 2010, allowing the selection and appointment of the heads of the four ZMT departments. Dr. Christian Wild was appointed for Coral Reef Ecology,





Prof. Dr. Hildegard Westphal for Biogeochemistry / Geology, Dr. Agostino Merico for Ecological Modelling and Dr. Achim Schlüter for Social Sciences.

At the end of 2010, the director of the institute, Prof. Dr. Venugopalan Ittekkot, handed over the reins to his successor. For the position of new director, the ZMT was able to win the geologist Prof. Dr. Hildegard Westphal, who held the Chair of Sedimentology at the University of Heidelberg and had formerly worked with a Heisenberg grant at the Center for Marine Environmental Sciences (MARUM, University of Bremen) in paleoecology and paleoclimatology. She joined the ZMT on 1 December 2010, as Professor of Geology of the Tropics at the University of Bremen. She also heads a research group at the ZMT that investigates the reactions of calcareous organisms to environmental changes like ocean acidification or eutrophication. Thus, the ZMT's range of key topics is being complemented to better understand the impact of environmental changes on the livelihood of coastal populations in the tropics.

Prof. Dr. Venugopalan Ittekkot left the ZMT after ten years as its director. During his tenure, he made essential contributions to the centre's development into an internationally acknowledged institution in the field of marine research with an extensive net of research partners in the tropics. In particular, he expanded the ZMT's contacts to the Asia Pacific Region and southern Africa. Thus, he succeeded in establishing the coordination of comprehensive research programmes in countries like China and Indonesia, with which Germany had made agreements on scientific-technological cooperation. He was particularly engaged in finding cooperation partners for these projects also within Germany and in making the activities of the ZMT more visible on a national level. Under his direction the ZMT succeeded in becoming a member of the renowned Leibniz Association, one of the four large research associations in Germany. This achievement is a major legacy of Prof. Dr. Ittekkot to the wider research community.



Research Projects

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2003-2010_DURATION**Indonesia_PARTNER COUNTRY****MAIN PARTNERS**

Universities and research institutions in Germany (Bremen, Bremerhaven, Geesthacht, Hamburg, Jena, Kiel, Oldenburg, Warnemünde) and Indonesia (Bandung, Bogor, Gondol, Jakarta, Makassar, Palembang, Pekanbaru, Purwokerto, Semarang, Surabaya)

FUNDING

Federal Ministry of Education and Research (BMBF)

DETAILS

Research program with 6 project clusters, coordinated by the ZMT. The ZMT conducts its own research as part of five clusters.

The Indonesian-German SPICE Programme was initiated in 2003 by the bilateral Steering Committee on Earth and Ocean Science. The implementation of the SPICE Programme was carried out in two phases. The information on the structure and functioning of coastal ecosystems and their alterations due to human interventions obtained during SPICE I (2003-2007) formed the basis for SPICE II (2007-2010). The focus on natural sciences in the first phase was complemented by social science in the second phase with the aim to better understand the social dimension of coastal ecosystem changes and to improve the links between research and decision-making.

The research activities in Indonesia were focused on regions in Java, Bali, Sumatra and Sulawesi. Scientists from 17 Indonesian and 19 German universities and related research institutions were involved in SPICE.

The programme created several opportunities for scientists and students from Indonesia and Germany to participate in the research activities and to pursue graduate and postgraduate degrees in marine science. Joint workshops, seminars and summer schools were organised as an accompanying measure within the projects.

In April 2010 both phases of the SPICE Programme were evaluated by a bilateral evaluation committee. The Indonesian-German Steering Committee on Earth and Ocean Science recommended the continuation of the SPICE Programme. New topics were proposed from the Indonesian side and discussed with the scientific community in Bremen in September 2010. During a bilateral workshop in October 2010 at the ZMT, project outlines and joint cooperation based on the proposed research topics were defined and sent for evaluation to the German Ministry of Education and Research (BMBF) and the Ministry for Research and Technology in Indonesia (RISTEK).

Dynamics of Coral Reefs, Tropical Seagrass Beds and Water Column Processes – Linkages and Resilience to Disturbances

The project focused on coral reef ecosystems and adjacent seagrass meadows in South Sulawesi, which are influenced by dynamite fishing and land-based pollution. Recently, the work on reef ecosystems was ex-

tended to include aspects of marine botany. Incubation experiments on reef macroalgae in sites that vary in their degree of exposure to human influences were used to test the physiological responses of calcifying and non-calcifying macroalgae under disturbance and to identify potential impacts of macroalgal growth on corals and the resilience of reef systems under these conditions.

Understanding Ecological and Socio-Economic Dynamics and Their Interaction in the Segara Anakan Lagoon

The major goal was to improve understanding of the interaction between ecosystem and socio-economic dynamics in the Segara Anakan region. Mainly the dispersal of substances in the lagoon was investigated. Because of high freshwater input into the lagoon by the Citanduy River, which drains an agriculture-dominated hinterland, concentrations of dissolved inorganic nutrients and particulate organic matter originating from agricultural soils were high in the western and central parts of the lagoon. The city of Cilacap is located east of the lagoon and affected by industry and Indonesia's largest oil refinery directly in the port. There, input of organic pollutants was detected in water and sediments of the lagoon.

Species diversity and abundance of macrobenthos were high compared to other mangroves in the Indo-Pacific. Investigation of the benthic food web resulted in unusually high spatio-temporal variability of the stable carbon and nitrogen isotope composition. Some of the investigated organisms appear to be suitable bioindicators of ecosystem pollution.

Investigation of Dissolved Organic Carbon in Peat-Draining Rivers of Sumatra, Indonesia and its Impact on Coastal Systems

Indonesia holds the largest share of tropical peat lands worldwide, and it is strongly affected by deforestation and drainage. The ZMT's study in the Siak River, Sumatra, was aimed at identifying and quantifying environmental impacts of peat soil leaching on water quality in the river and the coastal ocean. Results show that the organic carbon fluxes are enormous and lead to light limitation in



coastal areas, thus contributing to reduced primary productivity. The study has been extended to other peat-draining rivers of Sumatra to ascertain the representativeness of the results.

Biogeochemical Fluxes in the Indonesian Seas

This project investigated the influence of monsoons and climatic anomalies associated with El Niño events on the upwelling system off the Javanese coast, which is an important fisheries region. Initial results show that El Niño events strengthen upwelling along the Javanese coast and could increase fisheries yields. Also, carbon dioxide emissions from the upwelling system are strongly controlled by freshwater introduced by small rivers during the wet season. Studies examined the functional relationship between the strength of the biological pump and freshwater discharge in upwelling systems

Governance and Management of Coastal Social-Ecological Systems

The project examined the social and economic drivers of resource use in Indonesian mangrove and coral reef ecosystems in two regions: the Spermonde Archipelago off South Sulawesi and the Segara Anakan Lagoon in West Java. In a third region, the Siak river basin in Sumatra, the social implications of river water quality change were examined. In all three Indonesian coastal regions, avail-

able natural science data from SPICE I and II were used as a point of departure.

In the South Sulawesi Spermonde reef archipelago, scientists participated in research and training excursions in 2009 and 2010. Social and natural scientists jointly developed and implemented participatory research methods during these excursions. Results related to fishing strategies, livelihood options and coping strategies with climate and ecosystem change were made available in local languages and presented in a report for decision makers.

The sedimentation processes around the Segara Anakan lagoon were reconstructed from historical maps and satellite images. This led to a critical review of current arguments on the causes of sedimentation. The social causes of changing land use patterns were analysed in several case studies. Explorative interviews with lagoon fishermen on the environmental changes in the lagoon were conducted.

The exploration phase of the Siak river project produced two public health master's theses. One gave an overview on the current situation in developing countries and in particular in Indonesia concerning water pollution, water management and the provision of clean drinking water and sanitary facilities. The other discussed Siak river pollution and how human health in the adjacent villages is affected as experienced and witnessed by the local population.



2007-2011_DURATIONChina_**PARTNER COUNTRY****MAIN PARTNERS**

Universities in Germany
(Bremen, Hamburg)
and China (Shanghai, Qingdao),
research institutes in China (Haikou,
Hangzhou)

FUNDING

Federal Ministry of Education and
Research (BMBF)

DETAILS

Integrated project with five
sub-projects, coordinated by the
ZMT. The ZMT conducts three
subprojects.



The project aims to improve our understanding of land-sea interactions in Hainan. The newly generated knowledge will contribute to developing measures for a sustainable management of the aquatic systems in the region. The investigated areas comprise small rivers, estuaries, and the typical tropical habitats mangroves, seagrass meadows and coral reefs. The subprojects within LANCET address issues in physical oceanography, marine chemistry, biogeochemistry, marine botany, reef ecology and fisheries biology.

Current Status and Regulatory Functions of Hainan Coral Reefs Ecology

The coral reefs of Hainan are coming under increasing pressure from rapid coastal development. Understanding the response of corals to these pressures is crucial for predicting their resilience in the face of natural and anthropogenic disturbances. Substrate cover, composition, photosynthetic activity, as well as physiological properties of several coral types were studied.

Anthropogenic pressure was most evident in the coral reef habitat. Large areas of the reef have been destroyed by bomb and cyanide fishing. Coral cover is low and coral organisms display a reduced fitness compared to reefs elsewhere. Severe overfishing has led to extremely low fish biomasses in the region. There is only one fish species left

which could quantitatively graze excess algae from seagrass leaves and corals. Thus, under elevated nutrient levels overgrowth by algae poses a severe threat to these already endangered habitats.

Climate and Environmental Reconstructions Obtained from Coral Cores

This project followed the last one in the second phase of LANCET, which began in 2010. The aim is to study impacts of the monsoon, climate anomalies and land use changes on the coral reefs off Hainan. Therefore a core from a *Porites* coral growing 500 m off the coast in the vicinity of Tanmen was drilled and subsamples taken. So far, stable oxygen and carbon isotopes ($\delta^{18}\text{O}$ und $\delta^{13}\text{C}$) as well as Sr/Ca ratios were measured.

Results show that the annual mean growth rates of the Hainan corals are similar to those at other sites in the tropics that have the same sea-water temperature. As expected, all geochemical tracers followed the monsoon-driven seasonality. Contrary to many other coral records, the Hainan coral core shows no long-term decrease of $\delta^{18}\text{O}$. This decrease elsewhere is assumed to be caused by global warming. The new data support other findings suggesting that the weakening of the winter monsoon counteracts the global warming impact off Hainan by reducing the propagation of warm water into the South China Sea.

Nekton Status and Connectivity among Coral Reefs, Seagrass Beds and Mangrove Forests

Tropical shallow-water habitats function as important nursery and feeding grounds for fish. They move between different coastal habitats in close proximity, like mangroves, seagrass beds, sandy beaches and coral reefs. Knowledge about this connectivity is fundamental for designing effective conservation and management strategies. The project aims at describing the status of fish communities and the analysis of the connectivity between ecosystems in an intensively fished estuary.

Transport and Transformation Pathways of Carbon and Nutrients from Watershed to Coastal Sea

The goal of this study is to show how human activities on land alter river water quality

and the biogeochemistry of receiving coastal waters. Thus, conversion of mangrove forests to aquaculture leads to increased release of sediments, nutrients and pollutants to coastal waters. Sewage effluents change the natural pattern of riverine carbon and nutrient fluxes. Data collected show that rivers and estuaries receive high amounts of inorganic and organic nutrients from municipal effluents and rural aquaculture. The introduced nutrients are converted into organic matter which fuels the food web. Nutrient enrichment and sediment input to coastal waters have negative effects on the health of seagrass beds and coral reefs which are naturally adapted to low nutrient conditions and clear water environments.



Dynamics of the Green Belt in the Frame of Coastal Changes along the Southeast Coast of Vietnam



Large areas of mangrove forests were devastated in South Vietnam during the Second Indochina War. After its end in 1975, extensive reforestation with monocultures took place. Can Gio, one of the biggest replanted sites with about 20,000 ha of mangroves – mainly *Rhizophora apiculata* – was declared a biosphere reserve by the UNESCO in 2000. In this study the capability of natural canopy disturbances (e.g. lightning strikes)

to facilitate this transformation were tested. The results highlighted the importance of small disturbances such as lightning strikes to mitigate vulnerability against synchronous windfall in homogenous forest structures. Hence, creating small openings artificially may be an appropriate management measure in areas where the frequency of natural small-scale disturbances is low.

- **DURATION_** 2004-2009
- **PARTNER COUNTRY_** Vietnam
- **MAIN PARTNERS**
Vietnam National University, Ho Chi Minh City; Institute of Forest Growth and Forest Computer Science, TU Dresden
- **FUNDING_** German Research Foundation (DFG)
- **DETAILS**
Subproject of the integrated project “Land-Ocean-Atmospheric Interactions in the Coastal Zone of Vietnam”, coordinated by the ZMT

FORCE • Future of Reefs in a Changing Environment

DURATION
2010-2013

PARTNER COUNTRIES
9 countries in Europe and
the Caribbean Region

FUNDING
European Union (EU)

DETAILS

Joint project coordinated
by Exeter University, UK.
The ZMT conducts two subprojects.

The project aims to enhance the scientific basis for managing coral reefs in an era of rapid climate change and unprecedented human pressure on coastal resources. It takes an ecosystem approach that links the health of the ecosystem with the livelihoods of dependent communities and identifies the governance structures needed to implement sustainable development. Within the project, the ZMT investigates critical knowledge gaps in the ecology of tropical reef algae. The aims are to understand the ultimate and proximate causes of change in Caribbean reef environments, to assemble a region-wide management toolbox and to disseminate recommendations and tools to stakeholders, practitioners, and policy-makers.

Subproject 1 focuses on crustose coralline algae, generally considered 'coral-friendly'. They play an important role in the ecology of coral reefs by acting as cues for coral settlement and by contributing to reef calcification and cementation. However,

these algae show increased signs of mortality through disease. This study investigates the ecology and driving factors of disease affecting crustose coralline algae and their effects on reef recovery processes using field surveys and experiments.

Subproject 2 focuses on benthic cyanobacterial mats, generally considered 'coral-unfriendly'. They are becoming widespread on Caribbean reefs. They are often early colonizers of dead coral and disturbed substrates and have negative effects on coral larval survival and recruitment. The project uses field surveys to characterise the spatio-temporal dynamics of benthic cyanobacterial blooms in relation to biotic and abiotic parameters in the environment, as well as field and laboratory experiments to investigate the controlling factors of these blooms.

The findings will strategically fill gaps in our understanding of ecological processes so that models of reef ecosystems can be improved.



Role of Estuarine Biogeochemistry on Abundance and Types of *Vibrio cholerae* in West Bengal: Seasonality and Relation with Cholera Incidence

The Ganges Delta encompasses possibly the world's largest mangrove ecoregion, the Sunderbans. Yet its biogeochemical cycles are almost unknown. Although *Vibrio cholerae* is a natural inhabitant of West Bengal estuaries, there are no systematic studies on causal links between yearly cycles of organic nutrients, inorganic nutrients and physico-chemical parameters related to the Asian Monsoon system and the seasonal dynamics of the causative agent of cholera, which is the focus of this project. Specific hypotheses to be tested are whether chitinous micro-detritus rather than zooplankton is the main *V. cholerae* reservoir, and whether higher contents of chitin, salt, nutrients and phages favour short-term emergence of new variants of pathogenic aquatic *V. cholerae*. The study will reveal whether specific *V. cholerae* are more resistant to estuarine gradients and

how sediment resuspension by cyclones influences *V. cholerae* diversity and abundance in the water column. These data will be related to seasonal cholera incidence patterns.



• BIOVIBEN

• **DURATION** 2010-2012

• **PARTNER COUNTRY** India

• **MAIN PARTNER**

National Institute for Cholera and Enteric Diseases (NICED), Kolkata

• **FUNDING** German Research Foundation (DFG)

Seasonal Variability in the Impact of Carbon and Nutrient Inputs from the Brantas River on the Madura Strait



This is a subproject within a project aimed at developing an automatic measuring system for the assessment of water quality in the Madura Strait, East Java, coordinated by 4H-JENA engineering GmbH. The ZMT contrib-

utes to this project through the collection of spatio-temporal data sets on nutrients and organic matter discharge from the Brantas River to the Madura Strait.

• **DURATION** 2009-2011

• **PARTNER COUNTRY** Indonesia

• **MAIN PARTNERS**

in Germany: 4H-JENA engineering GmbH, HZG Geesthacht; in Indonesia: Agency for the Assessment and Application of Technology (BPPT), Jakarta; Jasa Tirta Corporation, Malang; Bogor Agricultural University

• **FUNDING** Federal Ministry of Education and Research (BMBF)

• **DETAILS**

Cooperative project coordinated by 4H-JENA engineering GmbH, subproject conducted by the ZMT

Geochemistry and Ecology of the Namibian Upwelling System

2009-2015_DURATION

PARTNER COUNTRIES
Namibia, South Africa

MAIN PARTNERS

National Marine Information and Research Centre, Swakopmund; University of Namibia, Windhuk; Department of Environmental Affairs, Cape Town

FUNDING

Federal Ministry of Education and Research (BMBF)

DETAILS

Joint project, coordinated by the Universities in Bremen and Hamburg. The ZMT conducts two subprojects.

GENUS represents a cooperation of ecologists, biogeochemists and modellers with the aim to clarify relationships between climate change, biogeochemical cycles, and ecosystem structure in a large marine ecosystem, the upwelling system off the northern Benguela / Namibian Coast.

Coastal upwelling systems are characterised by high seasonal and inter-annual variability in atmospheric forcing, but also by a relatively less complex trophic ecosystem structure, which makes them excellent systems to study physical, biogeochemical and ecological processes in a changing environment. The project focuses on the correlations and interactions of changes in properties of water masses and oxygen supply and demand on the shelf. It analyses concentrations and ratios of nutrients in upwelling water and their CO₂-content and relates it to shifts in species composition and biomass in the pelagic system. In the past, significant and economically severe changes in ecosystem structure occurred which are in part attributed to changes in physical forcing, resulting in significant changes of temperature and oxygen conditions in the environment.

In one of its two subprojects, the ZMT focuses on the carbon budget and the processes influencing the biological pump in the near coast area. The second subproject examines the impact of oxygen changes on vertebrate plankton. Both projects aim at contributing to the description and modelling of processes in the northern Benguela upwelling system off Namibia.



Impact of Nitrogen Effluents from Sugar Cane Monoculture on Water Quality and Biogeochemistry of the Mundau-Manguaba Lagoon and Adjacent Coastal Waters off Eastern Brazil

Increased river inputs of nitrogen to coastal waters are a major problem in many areas of the world. Though an essential nutrient, nitrogen in high concentrations causes eutrophication and damages coastal ecosystems. The project investigates the sources, transformation and fate of the nitrogen from sugar cane monoculture plantations and its environmental effects on the biogeochemistry and ecology of eastern Brazilian coastal waters.

The concentration of dissolved inorganic nitrogen generally decreased from the rivers towards the coast. Phytoplankton mainly consisted of cyanobacteria, diatoms and chlorophytes. Results of an experiment to simulate fertiliser input showed that an increased nutrient input can entail changes in phytoplankton biomass and community composition. Our investigations suggest that

sugar cane cultivation in the hinterland of both areas of investigation had an impact on the water quality and biogeochemistry of coastal waters, particularly during the rainy season.



- **DURATION** 2006-2009
- **PARTNER COUNTRY** Brazil
- **MAIN PARTNERS**
in Germany: Universities of Bremen and Hamburg; Institute for Baltic Sea Research, Rostock; in Brazil: Fluminense Federal University, Niteroi; State University of Northern Fluminense, Campos; State University of Alagoas, Maceio
- **FUNDING**
Federal Ministry of Education and Research (BMBF)
- **DETAILS**
Subproject of the project "The Impact of Pollutants from Sugar Cane Monoculture on Estuaries and Coastal Waters of NE-E Brazil: Transport, Fate and Sustainable Management Strategies", coordinated by the University of Bremen

Status of the Marine Environment of the Beibu Gulf, South China Sea and the Evolution during the Holocene

The Gulf of Beibu is located in the north-western part of the South China Sea. It is impacted by several densely populated coastal regions of China and Vietnam. The input of dissolved and particulate matter to estuaries and coastal seas has been severely modified by humans and enhanced by sewage discharge, fertiliser use, and intensive aquaculture. In former times, its coast was fringed by extensive mangrove forests. They



have undergone widespread conversion into shrimp ponds, resulting in a severe reduction of the natural filtering function of mangroves. At the same time they represent an additional source of pollution from aquaculture for adjacent water bodies.

A major aim of the project is to quantify material fluxes within the Nan Liu Estuary close to Beihai/Guangxi and adjacent coastal waters and to investigate the role of mangroves in the transfer of material from land to sea against the background of substantial riverine input from the agriculture-dominated hinterland and from aquaculture in the estuary. The distribution and composition of dissolved and particulate substances (i.e. N and C) in the river-estuarine system, in mangroves and coastal waters is used to delineate inputs and pathways of the inputs. In cooperation with the other subprojects researchers are investigating how alterations on land and anthropogenic inputs will influence the open waters of the Gulf of Beibu.

- **BEIBU**
- **DURATION** 2009-2012
- **PARTNER COUNTRY** China
- **MAIN PARTNERS**
Guangxi Mangrove Research Center, Guangxi Marine Environment & Coastal Wetland Research Center, Beihai
- **FUNDING**
Federal Ministry of Education and Research (BMBF)
- **DETAILS**
Subproject of the joint project "Status of the Marine Environment of the Gulf of Beibu (South China Sea), and Development during the Holocene through Alternating Natural and Anthropogenic Influences", coordinated by the Leibniz Institute for Baltic Sea Research Warnemünde (IOW)

High-PUFA Algae

2008-2010_DURATION

MAIN PARTNERS

Aquacare, Herten;
Ceramics, Bremen;
TeLa GmbH, Bremerhaven

FUNDING

AG Industrieller Forschungs-
vereinigungen (AIF),
Federal Ministry of Economics
and Technology (BMW)

Microalgae are primary producers and the basis of marine food webs. Few other food items contain such a variety of nutrients, fatty acids, vitamins, proteins, minerals and trace elements. Above all, they contain highly unsaturated fatty acids, which are extremely important nutrients for human growth and development. Marine fish accumulate these fatty acids through uptake of plankton.

A main goal of this project is to increase the concentration of polyunsaturated fatty

acids (PUFA) in cultured microalgae. Several algae species are cultivated under varying environmental conditions in order to optimise quality, production and harvest. Emphasis is on the uptake of nutrients from effluents of shrimp aquaculture and on improving algal harvest with the help of specialised immobilisation techniques. At the same time, research also focuses on the uptake of algae by selected zooplankton organisms.

Breeding and Rearing of Ornamental Organisms under Controlled Conditions

since 2004_DURATION

MAIN PARTNERS

University of Bremen;
Aquacare, Herten

FUNDING

ZMT, AG Industrieller
Forschungsvereinigungen (AIF)

The purpose of this ongoing project is to promote conservation of coral reefs by breeding selected species from the ornamental trade and thus reducing wild catches. The project focuses on three areas of activity: water quality management, broodstock management and nutritional research. Experiments concentrated on clown fish, seahorses and particularly on giant clams. With these, the focus is on photosynthesis, respiration

and calcification under varying abiotic conditions, and on the influence of nutrients on their growth. The production of live feed (*Artemia*, *Rotaria*, copepods and algae) for rearing of larvae is continuously being optimised. Furthermore, new research on the filtration capacity of corals and giant clams was studied under controlled conditions with respect to carbon dioxide, oxygen and temperature.





Capacity Building and Cooperation

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ICSU - SCOR NAM S&T CENTRE IOI GERMAN OPERATIONAL CENTRE IOC - UNESCO IGBP-LOICZ and IMBER	



The ZMT participated in teaching at the University of Bremen and at the Jacobs University. The scientific staff also provided supervision to both internal and external candidates at postgraduate level. The ZMT scientists contributed the majority of training courses for the ISATEC Master's Programme. ISATEC (International Studies in Aquatic Tropical Ecology) is a two-year master's programme for German and foreign students offered by the University of Bremen. The majority of topics and supervisory work for master's theses for students within this programme came from the ZMT. Other capacity building activities included specialist training courses, summer schools and on-the-job training, which were offered both in Bremen and in partner countries. The ZMT also hosted a number of internships in its laboratories for students and pupils.

Sino-German Initiative on Marine Sciences

The ZMT has been coordinating this initiative on behalf of the University of Bremen since 2004. The activities contribute to the implementation of a joint English-language graduate programme in marine sciences and at intensifying scientific exchange between the Ocean University of China (OUC) in Qingdao with German universities in Bremen and Kiel and their affiliated research institutions.

The initial focus was on the Sino-German Master's Programme in Marine Sciences offering Chinese and German students a

two-term study in particular fields of marine sciences at the partner university abroad with the possibility of obtaining a M.Sc. Double Degree. Since 2010, the cooperation also includes PhD-level education, exchange of senior scientists, as well as the development of joint research projects.

Among further activities are annual summer schools intended to strengthen contacts between students of both countries. In 2009, the two-week training course on "The Coastal Zone and its Management" in Qingdao was held jointly by Chinese and German lecturers, in 2010 another one followed on the "Response of Ocean Biogeochemistry to Global Change" in Kiel and Bremen.

The BMBF approved the proposal for an extension of the project.

Capacity Building Support in Fisheries

Starting in 2005, the ZMT developed a combined degree and diploma course in fisheries in cooperation with the University of Vudal and the College of Fisheries in Kavieng, Papua New Guinea. The project is funded by the German Development Agency GTZ. The first three years of the project were used to develop and implement a curriculum for fisheries at the college to train students especially for the fishing industry and its administration. The programme ended in 2008, but a fellowship programme followed in 2009. It aims at strengthening the teaching capacities in Papua New Guinea by funding two full scholarships for candidates from the country to join the ISATEC Course offered by the ZMT at the University of Bremen.

The programme at Vudal University is well-established with 15 diploma and 15 bachelor students graduating annually.

Sandwich Programme with the Indonesian Bogor Agricultural University

In cooperation with Bogor Agricultural University (IPB) the ZMT jointly developed a bilateral sandwich master's programme with the aim of intensifying its international collaboration in the education of students and young scientists.

The international sandwich programme was established by IPB to increase the number of highly-qualified young scientists who

will become actively involved in the management of coral reefs. This development of capacity is in line with the requirements of human resources to assess the potential of the Indonesian marine and coastal resources. It aims at broadening the knowledge base of participants and at familiarising them with working in an international academic environment.

The overall programme was designed to be completed in 4 semesters, including a se-

mester overseas (study abroad programme) participating in lectures and courses at the ZMT and the University of Bremen. Within this framework, IPB has already sent 20 students to attend special courses at the ZMT for four months (October 2009 - February 2010), i.e. courses covering themes regarding marine research, as well as scientific soft skills.



Transfer

Mangrove Rehabilitation in the Gulf of Kutch, Gujarat, India

The Gujarat Forestry Development Project's objective is to restore degraded forests in India and thereby improve the livelihood of the communities who are dependent on forests and their resources. Local people are to be empowered by promoting sustainable forest management including Joint Forest Management plantation and community development. As part of the overall project, an area of 15,000 ha on the northern coast of the State of Gujarat is in the process of being rehabilitated with mangroves.

The project is being financed by the Deutsche Gesellschaft für Internationale Zusammenarbeit (giz). Since 2009 the ZMT

has been involved in the project with the objective of advising the forest department in these activities. Although there are no accepted silvicultural practices for mangroves established anywhere in the world, the ZMT has given advice in order to improve mangrove rehabilitation keeping an ecosystem concept in mind. Among others, recommendations include the implementation of a large-scale monitoring programme to improve planting techniques, an associated research plan to improve the rehabilitation effort, the increase of the mangrove biodiversity in the rehabilitated areas in order to enhance their stability, and the thinning of mangroves at certain intervals to improve their growth.

Cooperation with International Organisations and Programmes



ICSU-SCOR

The director of the ZMT chairs the Capacity Building Committee of SCOR (Scientific Committee on Ocean Research) and contributed to the development of its strategy related to the establishment of regional graduate schools of oceanography and SCOR visiting scholars. The SCOR Capacity Building Committee meeting in Shanghai in 2009 devoted its attention to capacity building in the Afro-Asian region. The ZMT was involved in the organisation of the meeting, which was attended by the ZMT's partners in its current and planned projects in China, Indonesia, Namibia and Tanzania. This strategy will allow the ZMT and its partners to make the best use of their bilateral projects to contribute to capacity building in these regions. In 2010, the ZMT together with SCOR organised an international conference of organisations focusing on capacity building in marine research. The aim was to exchange information on ongoing capacity building initiatives and to explore possibilities of coordinating at least some of these activities. The ZMT's scientists continued to contribute to activities within the SCOR working group on hypoxia (SCOR WG I28). The project is being wound up with a final publication.

NAM S&T CENTRE

The ZMT continued to work with the NAM S&T Centre by hosting short-term fellows from developing countries under the joint NAM S&T ZMT Fellowship Programme initiated in 2007. Fellows from Vietnam, Iran, Myanmar and Sri Lanka realised a research stay at the ZMT.

IOI GERMAN OPERATIONAL CENTRE

The ZMT hosts the German Operational Centre of the IOI (International Ocean Institute). It is headed by a member of its staff, Dr. Werner Ekau. Since 2004 he has been chairing the group of Operational Centre directors and representing them in the IOI's Executive Committee and Governing Board. As a member of the IOI network, the Operational Centre contributes to the development of network-wide projects to enhance a sustainable coastal management, create awareness for ocean problems and support programmes that strengthen the role and

possibilities of underprivileged groups in coastal communities, such as the programme "Women, Youth and the Sea". Within this context, IOI Germany participated in the evaluation of the EU Programme for Integrated Coastal Zone Management and developed together with the Deutsche Gesellschaft für Internationale Zusammenarbeit (giz) a study programme in "coastal fisheries" in Papua New Guinea (see under Capacity Building).

IOC-UNESCO

The ZMT regularly cooperates with IOC-WESTPAC, UNESCO-IOC's Regional Office in Southeast Asia in Bangkok. A new working group on "Coral Reefs in the Southeast Asia Region" was established with support from IOC-WESTPAC. The ZMT's partners in projects located in Indonesia, China and Vietnam are members of the working group and contribute their expertise and results. At the 50th Anniversary Meeting of the IOC General Assembly in Paris in June 2009, the director of the ZMT was invited to deliver the Panikkar Memorial Lecture and was awarded the first N. K. Panikkar Medal.

In 2010, Dr. Werner Ekau participated in the IOC/UNESCO – IUCN – NOAA Consultative Committee Meeting on Large Marine Ecosystems (LME), which takes place every year to monitor the existing LME projects funded by the Global Environmental Facilities in order to develop management systems. He is also a member of the Working Group on LME Best Practices, a joint working group of experts from IOC, NOAA, IUCN and ICES to discuss lessons learnt from the LME projects, especially focusing on capacity development.

IGBP-LOICZ and IMBER

Social Scientist Dr. Marion Glaser of the ZMT is a member of the Scientific Steering Committee of the IHDP-IGBP Programme: Land-Ocean Interaction in the Coastal Zone (LOICZ), with special responsibility for the LOICZ priority topic I (Social Ecological Systems Analysis). She took part in a synthesis workshop on initial results. A synthesis volume is being prepared, focusing on the social dimension in coastal and marine management. The ZMT also participates in the GENUS project which is initiated as a German contribution to IGBP-IMBER.



Services and Administration

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In addition to maintaining a smoothly running laboratory with high-quality sample analysis at the ZMT in Bremen, the technicians supported the sampling campaigns of several ship- and land-based expeditions, e.g. to the Sundarban mangroves and to the upwelling regions off the coast of Namibia, as well as a diverse array of on-site analyses of samples in several countries.

In 2009 and 2010, the work in the chemical and biological laboratory was devoted mainly to the analyses of samples collected in the projects SPICE, LANCET and GENUS, as well as a number of smaller projects like BIOVIBEN. Many guest scientists visited the ZMT and valued the assistance and training received from the technicians to advance their research. The technicians also supported the analytical needs of students from many different countries, including Germany, to complete their master theses and dissertations at the University of Bremen under the supervision of the ZMT's scientists.

The expansion of the annex building provides space for laboratory facilities furnished with basic equipment such as a temperature-controlled room, a clean bench, fume hoods and an autoclave to support a variety of future research work. The microscopic facilities were expanded and 2 double-beam spectrophotometers for e.g. enzyme studies and equipment to prepare biological samples for fatty acid analysis were purchased. A brand new TOC-TDNb analyser from Shimadzu was acquired for the chemistry laboratory for the analysis of dissolved inorganic carbon,

dissolved organic carbon and total bound nitrogen.

MAREE (Marine Experimental Ecology Facility)

The experimental facility MAREE also gained additional capacity in the new annex building. This makes it the largest tropical marine laboratory in Germany. The new extended facility comprises around 130m² and, besides the main experimental aquatic laboratory area, it offers four additional rooms including a separated algae culture unit and a room for physiological respiration experiments.

In the new facility, temperature and humidity are regulated by a sophisticated airconditioning system with low energy-demand. Two large seawater reservoirs (in total 70,000 litres) are filled with natural seawater to help create near-coastal conditions. In 2010 the first aquarium systems were put into service, a complex process because the high water-quality of pristine tropical reefs has to be mimicked in a relatively small water volume. Finally, in 2010 many of the cultivated organisms moved to the new facility, e.g. into a 3000 litre aquarium system to breed the clownfish *Amphiprion ocellaris* as part of the ILAR project. The limits of the filtration and other technical systems in the MAREE were tested in a 15,000 litre mesocosm. Field equipment was also tested in the mesocosm to ensure its working condition for performing reliable measurements before the devices were deployed in numerous research locations.

Library

The scientific library of the ZMT mainly serves as a reference library for the ZMT staff members. The main focus of the library collection is on ecology, marine ecosystems, fisheries biology, coastal management, biogeochemistry, and social sciences. The collection consists of around 4000 monographs and 100 running metres of periodical volumes. The ZMT currently subscribes to about 25 printed scientific journals. Beyond that, it has extended its range of online journals and databases, partially enabled via national licenses funded by the DFG.

A new online-catalogue (OPAC) was established, which can be accessed via the internet to browse the complete collection

of the ZMT library. Also, the library stock is now associated with the Interlibrary Loan Programme.

The library collaborates with other libraries and is a member of numerous associations, like the Common Library Network (GBV), the German Association of Marine Science Libraries and Information Centers (GAMSLIC/AMB), the European Association of Aquatic Sciences Libraries and Information Centres (EURASLIC) and the International Association of Aquatic and Marine Science Libraries and Information Centers (IAMSLIC). Its members exchange information and provide mutual support in meeting requests for literature from library users.

Electronic Data Processing and Data Management

With the recruitment of two new staff members specialised in administration and databases, a new IT team was assembled which started developing new concepts for the ZMT's IT services. Plans were made for the servers to be transferred onto a new site by means of virtualisation. At the same time

a new intranet was designed, which supports the cooperation of the staff members by means of different integrated collaborative systems. In addition, the intranet has an interface to a database system with which administration data, as well as research data can easily be stored and evaluated.

Public Relations

The ZMT regularly supplied information to online scientific news services, such as the idw, and handled requests from the media for expert information on projects and current events in science that are related to disciplines represented by the ZMT scientists. Media interest mainly focused on the discovery of a new giant clam species in the Red Sea and on the results of the SPICE project, which were presented at the World Ocean Conference in Indonesia, on the research on reef resilience to disturbances, the socio-economic research in the SPICE project, and on the experts' outlook on the impacts of the oil spill catastrophe in the Gulf of Mexico. Demands from the media for the ZMT's expertise and broadcasts with the ZMT's participation increased substantially in 2010.



The ZMT contributed to a variety of public events jointly with other institutions, e.g. an exhibition on sea-level rise at the Bremen House of Science, one on climate change in the State Museum Oldenburg, as well as the exhibition on climate archives on the occasion of the Day of German Unity. Guided tours of the ZMT, workshops and a programme for “Future Day” were organised for pupils from Bremen schools. Scientific staff members from the ZMT were invited to museums, the House of Science in Bremen and other institutions to give talks to a general public

or take part in panel discussions on subjects concerning marine environmental problems.

The website of the ZMT was newly designed and structured on the basis of a new user-friendly content management system. The relevant members of the staff underwent training in system maintenance. A new ZMT leaflet and a project flyer (SPICE II) were issued, as well as publications in cooperation with other institutions, like the brochure “Marine Technology – Research and Transfer” from the Nordwest-Verbund Meeresforschung.



Administration

Staff development

In 2009, the ZMT filled the positions of head of laboratories and director’s assistant, as well as positions in the library (librarian), the IT services sector (database specialist) and the administration (personnel administration / accounts). The total number of full time positions at ZMT is now 57 and includes 72 persons.

Infrastructure

Since 2009, the ZMT has been funded within the Leibniz system. The funds were allocated to develop planned departments and to ex-

pand infrastructure facilities, especially for upgrading the facilities of biological and chemical laboratories both in space and equipment.

The increasing demand for work space was met by constructing a three-story extension to the annex, which was completed in early 2010. With the new building, the ZMT has an extra laboratory and office space of 150 m². Yet, a long-term solution for the accommodation of future staff still needs to be developed after the requirements of office and laboratory space for the new Professors and their groups can be more reliably assessed.



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Saint-Paul, U.

Perspective for mangrove management in Gujarat, rehabilitation vs. restoration (invited talk). Gujarat Forest Department. Gandhinagar, India, 28 Oct 2009

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Perspectives for mangrove development in Gujarat (invited talk). Forest Department, Gandhinagar, Gujarat, India, 7 Oct 2010

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Hohn, S.

Nonlinear model analysis of plankton growth and calcification of the PeECE-I mesocosm experiment. Joint EPOCA, BIOACID and UKOARP meeting, Bremerhaven, 28-30 Sep 2010

Evaluation of existing ecosystem models with regard to ocean acidification. Joint EPOCA, BIOACID and UKOARP meeting, Bremerhaven, 28-30 Sep 2010

Husain, S., **Ferse, S., Glaser, M.**

Analysis of factors affecting resilience towards climate change on several islands in the Spermonde Archipelago, Sulawesi, Indonesia. Storm Surges Congress 2010, Hamburg, 13-17 Sep 2010

Jänen, I., Jennerjahn, T., Adi, S.,

Wijanarko, D.A.

Anthropogenic nutrient loading of the Brantas River affecting coastal water quality of the Madura Strait, Java, Indonesia. World Ocean Conference, Symposium of Indonesia – Germany SPICE program, Manado, Indonesia, 12-14 May 2009

Jänen, I., Propp, C., Jennerjahn, T.,

Adi, S.

Impact of the Sidoarjo mud volcano on the biogeochemistry of suspended particulate matter of the Brantas River estuary Java, Indonesia. 24th International Meeting on Organic Geochemistry (IMOG), European Association of Organic Geochemists (EAOG), Bremen, 6-11 Sep 2009

Jennerjahn, T., Henkel, S., Soman, K., Padmalal, D., **Herbeck, L., Unger, D., Ittekkot, V.,** Schulz, I., An, N.T., Adi, S., Wu, Y., Zhang, J.

Anthropogenically altered landscapes affecting the biogeochemistry of river suspensions from tropical S and SE Asia. 24th International Meeting on Organic Geochemistry (IMOG), European Association of Organic

Poster Presentations

Geochemists (EAOG), Bremen, 6-22 Sep 2009

Jessen, C., Stach, T., **Wild, C.**

The effect of herbivory on benthic community composition and algal growth on a reef flat in the Red Sea. European Meeting of the International Society for Reef Studies (ISRS) 2010, Wageningen, Netherlands, 13-17 Dec 2010

Kleinertz, S.

Fish feeding ecology and parasite diversity in Indonesian waters. Jahrestagung Deutsche Gesellschaft für Parasitologie, Düsseldorf, 16-20 Mar 2010

Fish parasite diversity in Indonesia and its use as biological indicators. The XIIth International Congress of Parasitology (ICOPA), Melbourne, Australia, 15-20 Aug 2010

Krupp, L., Unger, D., Wang, D., **Jennerjahn, T.**

Impact of shrimp pond effluents on seagrass beds in tropical Hainan, China. ASLO Aquatic Science Meeting, Nice, France, 25-30 Jan 2009

Krupp, L., Unger, D., Krumme, U., Liu, S. M., **Jennerjahn, T.**

Typhoon induced changes in the biogeochemistry of a tropical estuary in Hainan, China. International Meeting on Organic Geochemistry (IMOG), Bremen, Germany, 6-11 Sep 2009

Krutwa, A., Banks, S., Ruiz, D., **Wolff, M.**

Subtidal benthic community structure and benthic succession in Floreana, Galapagos Marine Reserve. Galapagos Science Symposium, Santa Cruz, Galapagos, 20-24 July 2009

Kubicek, A.

Individual based modelling of coral reef system dynamics. 40. Jahrestagung der Gesellschaft für Ökologie, Justus Liebig University Giessen, 30 Aug-2 Sep 2010

Lara, R.

Uncertain future of fish populations in Argentine coastal lakes: The impact of severe droughts and floods. International Symposium on Climate Change Effects on

Fish and Fisheries "Forecasting impacts, assessing ecosystem responses, and evaluating management strategies", University of Sendai, Japan, 20-26 Apr 2010

Lukas, M.

Spatial terrestrial pasts challenging contemporary coastal zone management. The case of the disappearing Segara Anakan Lagoon on Java, Indonesia. 1st conference of the graduate schools GLOMAR, ISOS, SICSS, University of Hamburg, 5-6 Oct 2010

Lukas, M., Schwerdtner Máñez, K.

Understanding the past to manage the future: historical environmental and social changes in the Segara Anakan Lagoon. International Ocean, Science and Policy Symposium at the World Ocean Conference 2009, Manado, Indonesia, 12-14 May 2009

Moll, R.

Benthic recycling in the mangrove fringed Segara Anakan Lagoon, Java, Indonesia. The 2010 International Meeting of the Association for Tropical Biology and Conservation, Bali, Indonesia, 19-23 July 2010

Moll, R., Jennerjahn, T.

Spatial variation in the carbon and nutrient biogeo-chemistry in the Segara Anakan Lagoon, Java, Indonesia. World Ocean Conference, Symposium of Indonesia – Germany SPICE program, Manado, Indonesia, 11-15 May 2009

Nordhaus, I., Pamungkas, J.

Spatio-temporal variation of macrofauna and mangrove vegetation in Segara Anakan, Indonesia, affected by human activities. World Ocean Conference, Symposium of Indonesia – Germany SPICE program, Manado, Indonesia, 11-15 May .2009

Ostmann, A., **Nordhaus, I.**

Diversity and spatial variation of meiofauna in the Segara Anakan Lagoon, Java, Indonesia. 14th International Meiofauna Conference, Ghent, Belgium, 11-16 July 2010

Nugues, M.

Feeding impacts of herbivorous fishes on the brown alga *Lobophora variegata*: a species-specific approach along a depth gradient.

Poster Presentations

European Meeting of the International Society for Reef Studies (ISRS) 2010, Wageningen, Netherlands, 13-19 Dec 2010

Propp, C., Jennerjahn, T., Jänen., I., Wijanarko, D.A.

Benthic nutrient fluxes in the tropical Brantas River estuary and Madura Strait coastal waters (Java, Indonesia). ASLO Aquatic Sciences Meeting 2009 "A Cruise through Nice Waters", Nice, France, 24 Jan -1 Feb 2009

Propp, C., Jennerjahn, T., Wijanarko, D.A. Ammonium and oxygen fluxes across the sediment-water interface in the tropical Brantas River estuary and adjacent coastal waters (Java, Indonesia). World Ocean Conference, Symposium of Indonesia – Germany SPICE program, Manado, Indonesia, 11-15 May 2009

Rick, S.

Determining the anhydrosugars levoglucosan, mannosan and galactosan in aerosols. 22nd International Ion Chromatography Symposium Conference, Cincinnati, Ohio, USA, 19-22 Sep 2010

Santoso, A. B., **Jennerjahn, T.**

Temporal variation of dissolved and particulate organic carbon and dissolved inorganic nutrients in the Segara Anakan Lagoon, Java, Indonesia. World Ocean Conference, Symposium of Indonesia – Germany SPICE program, Manado, Indonesia, 11-15 May 2009

Schwerdtner Máñez, K.

Socio-economic drivers in the coral reef fishery of Spermonde, South Sulawesi, Indonesia. International Ocean, Science and Policy Symposium at the World Ocean Conference 2009, Manado, Indonesia, 11-15 May 2009

Socio-economic drivers in the coral reef fishery of Spermonde, South Sulawesi, Indonesia. Conference Oceans Past II, University of British Columbia, Vancouver, Canada, 25 May -1 June 2009

Trends in coral reef fisheries of the Spermonde Archipelago, South Sulawesi, Indonesia. Conference Oceans Past II, University of British Columbia, Vancouver, Canada 25 May 1 - June 2009

Spörl, G., Jennerjahn, T.

Stable nitrogen and carbon isotope composition of suspended matter and sediments in a coastal lagoon affected by sugarcane monoculture in NE Brazil. ASLO Aquatic Sciences Meeting 2009 "A Cruise through Nice Waters", Nice, France, 24 Jan -1 Feb 2009

Unger, D., Herbeck, L., Lui, S. M., Wu, J., **Jennerjahn, T.**

Human activities affecting composition and fluxes of nutrients and organic matter in two estuary systems in Hainan, China. ASLO Aquatic Sciences Meeting 2009 "A Cruise through Nice Waters", Nice, France, 24 Jan -1 Feb 2009

Events

Events organized by the ZMT

- Workshop: Inter-equatorial project on *Dosidicus gigas*, ZMT, 22-23 June 2009
- Workshop on a collaboration between the IMS and the ZMT in Bremen, ZMT, 6-10 July 2009
- 5th Sino-German Summer School "The Coastal Zone and its Management", Ocean University of China, Qindao, 20-31 July 2009
- SPICE evaluation workshop, ZMT, 9 Dec 2009
- GENUS workshop, ZMT, 3 Mar 2010
- Sino-German initiative on marine sciences, visit of the delegation of the Ocean University of China, ZMT, 28 May 2010
- 16th Meeting of the Joint Steering Committee on Cooperation in Marine Sciences and Technology, ZMT, 6 July 2010
- 6th Sino-German Summer School "Response of Ocean Biogeochemistry to Global Change", ZMT, 2-6 Aug 2010
- Conference on developing a global strategy for capacity building in the ocean sciences, ZMT, 16-18 Aug 2010
- National SPICE future workshop, ZMT, 14 Sep 2010
- SPICE bilateral cooperation presentation, visit of Indonesian Minister of Research and Technology, Suharna Surapranata, 23 Sep 2010
- International SPICE future workshop, ZMT, 26-29 Oct 2010

Guest lectures at the ZMT

- Muhammad Neil, Center for Coral Reef Research, Makassar, Indonesia, Patron-client relations in a changing system: Spermonde Archipelago South Sulawesi, 7 Jan 2009
- Germán Kopprio, UNS, Universidad Nacional del Sur, Bahia Blanca, Argentina, Hydrology, plankton and nutrient dynamics of the coastal brackish Chasicó Lake Argentina: current situation and past ENSO teleconnections, 12 Feb 2009
- Lata Gawade, National Institute of Oceanography, Goa, India, Towards understanding the biogeochemistry of coastal and estuarine systems: east coast of India, 17 Feb 2009
- Dr. Anthony Hickey, University of Auckland, New Zealand, Report from latest results in fish physiological studies on the biochemical pathways in mitochondria, 4 May 2009
- Dedi Supriadi Adhuri, LIPI, Jakarta, Indonesia, Conflict in decentralised Indonesian fishery: reconciling policy and reality, 7 July 2009
- Arif Satria, LIPI, Jakarta, Indonesia, Typology of fisheries conflict in Indonesia – coastal governance in Indonesia, based on UU 27/2007, 7 July 2009
- Dr. M. C. Badjeck, The World Fish Center, Penang, Malaysia, Climate change: research to meet the challenges facing fisheries and aquaculture, 15 July 2009
- Dr. Aschwin Engelen, CCMAR, Faro, Portugal, Demographic matrix modeling of marine populations and communities under stress, 10 Aug 2009
- Prof. Dr. Aimin Wang, Hainan University, Haikou, P.R. China, Coral reef and aquaculture research in Hainan, China, 22 Feb 2010
- Dr. Ehsan Kamrani, Hormozgan University, Dept. of Marine Biology, Islamic Republic of Iran, Mangroves and coral reefs of the Persian Gulf, 24 Feb 2010
- Dr. Lan Smith, JAMSTEC, Japan, Untangling the effects of temperature and nutrient concentration on rates of nutrient uptake by phytoplankton in the ocean, 25 Mar 2010
- Prof. Dr. Cheng Heqin, State Key Laboratory of Estuarine & Coastal Research, East China Normal University, Shanghai, P.R. China, The sea level rise and land subsidence around the Yangtze Delta, 21 June 2010
- Prof. Chen Xiaoyong, Vice-Director, College of Resources and Environments, East China Normal University, Shanghai, P.R. China, The ecological variation for the recent decade in the Yangtze, 21 June 2010
- Dr. Zhang Guo An, State Key Laboratory of Estuarine & Coastal Research, East China Normal University, Shanghai, P.R. China, The hydrographic change before and after the deep navigation channel construction in the Yangtze, 21 June 2010
- Prof. Jin Liu, Consultant in Shanghai Waterway Survey and Design Institute and the National Oceanic Administration, East China Normal University, Shanghai, P.R. China, Problems between the human control of channel patterns and siltation release during the construction of deep navigation channel construction in the Yangtze Estuary, 21 June 2010

Prof. Dr. A. L. Ramanathan, School of Environmental Science, Jawaharlal Nehru, University of New Delhi, India, Organic matter characteristics and sediment nutrient dynamics in the Pichavaram mangrove – estuarine complex, south-eastern India, 21 June 2010

Prof. Dr. Shihua Qi & Dr. Hongmei Wang, School of Environmental Studies, University of Geosciences, Wuhan, P.R. China, Overview presentation about the School of Environmental Studies and its research in Wuhan, P.R. China, 22 June 2010

Dr. Ingo Burghardt, Animal Evolution, Ecology & Biodiversity, Ruhr-Universität Bochum, “Solar-powered” opisthobranchs – a good model for a better understanding of coral

bleaching, 24 June 2010

Dr. Sisira Hapunthantri, Head of the Marine Biological Resources Division, Sri Lanka National Aquatic Resources Research & Development Agency, Sri Lanka, Marine fisheries in Sri Lanka, 16 Aug 2010

Dr. May Thu Naing, Mandalay Technological University, Mandalay, Myanmar, Probiotic bacteria and the research and fisheries situation in Myanmar, 10 Nov 2010

Natalie Loick-Wilde, Compound specific stable isotope analysis to determine nitrogen and carbon fluxes in marine ecology, 1 Dec 2010

• Guest lectures at the ZMT

M. Birkicht

Training: Safety at sea, INASEA, Cuxhaven, 29 Apr 2010

Seminar Feststoffanalytik, Hamburg, 16 Nov 2010

E. Borell

Third core mini-symposium on ecological and biogeochemical coral reef research, Munich, 3-5 May 2009

C. Brandt

Seminar für DIN-VDE-Bestimmungen, BEHA-Amprobe GmbH, Glottertal, 20-24 Apr 2009

Training: Rhinoceros CAD & CAM Software, Berlin, 28 June-3 July 2009

D. Dasbach

Training course: Strahlenschutz, Landesanstalt für Personendosimetrie (LPS), Berlin, 27-28 Jan 2010

R. Deswandi

International SPICE workshop “Developing theory and supporting policy through multi-level socio-ecological analysis in the context of coastal and marine resources governance”, IBP, Bogor, Indonesia, 14-15 Apr 2010

K. Diele

Workshop “Best practices in ocean acidifica-

tion research”, IFM Geomar, Kiel, 8-12 Mar 2010

L. Dsikowitzky

2nd LANCET workshop, Haikou, Hainan, P.R. China, 4-12 Mar 2010

S. Eickhoff

Leibniz Association meeting, AK Presse, IfM-GEOMAR, Kiel, 13-14 May 2009

Leibniz Association meeting, AK Presse Nord, Hamburg, 9 Mar 2010

Leibniz Association meeting, AK Presse, Institut für Deutsche Sprache, Mannheim, 8-9 June 2010

Leibniz Association meeting, AK Presse, Kongresszentrum Düsseldorf/ Neuss, 24 Nov 2010

Annual conference “Wissenschaftskommunikation”, Mannheim, 29 Nov-1 Dec 2010

W. Ekau

Colloquium: Meeresforschung im Wandel, AWI, Bremerhaven, 16 Mar 2009

Ocean governance and sustainable development workshop, Nonthaburi, Thailand, 6-7 May 2009

World Ocean Conference 2009, “Climate change impacts to oceans and the role of oceans to climate change”, Manado, Indonesia, 11-15 May 2009

GENUS workshop: Modelling, IOW, Warnemünde, 24 June 2009

• Participation in events

Events

Participation in events

Meeting of the American Society of Ichthyologists & Herpetologists, Portland, Oregon, 21-29 July 2009

International conference “50 years of education and awareness-raising for shaping the future of the oceans and coasts”, Russian State Hydrometeorological University, St. Petersburg, Russia, 27-30 Apr 2010

ICSU Visioning Open Forum “Grand challenges in global sustainability research: a systems approach to research priorities for the decade”, UNESCO, Paris, France, 21-22 June 2010

12th IOC/UNESCO-IUCN-NOAA consultative meeting on large marine ecosystems (LMEs), IOC/UNESCO, Paris, France, 5-9 July 2010

33rd Pacem in Maribus (PIM) conference, Beijing, P.R. China, 2-4 Sep 2010

IOI governing board and steering committee meeting, Shanghai, P.R. China, 6-7 Sep 2010

Press conference – First World Ocean Review, Hamburg, 18 Nov 2010

Seminar “Nachhaltige Zusammenarbeit mit Entwicklungs- und Schwellenländern in Bildung, Wissenschaft und Forschung“, Berlin, 28-30 Nov 2010

Benguela current commission meeting, Swakopmund, Namibia, 9-17 Oct 2010

S. Ferse

Third core mini-symposium on ecological and biogeochemical coral reef research, Munich, 3-5 May 2009

Proposal writing workshop, University of Wageningen, Netherlands, 29 June-1 July 2009

World Ocean Conference 2009, “Climate change impacts to oceans and the role of oceans to climate change”, Manado, Indonesia, 11-15 May 2009

International SPICE workshop “Developing theory and supporting policy through multi-level socio-ecological analysis in the context of coastal and marine resources governance”, IBP, Bogor, Indonesia, 14-15 Apr 2010

International symposium on small islands and coral reefs, Ambon, Indonesia, 1-12 Aug 2010

11th annual meeting of the International Society for Ecological Economics (ISEE), University of Oldenburg, 23-25 Aug 2010

Storm Surges Congress 2010, Hamburg, 13-17 Sep 2010

Conference “Oceans Past III: Stories from the

sea – history of marine animal populations and their exploitation”, Trinity College, Dublin, Ireland, 17-21 Nov 2010

SPICE cluster 6 final workshop “People, reefs and fish in Spermonde Archipelago, South Sulawesi”, Hasanuddin University, Makassar, Indonesia, WWF-TNC Joint Marine Program, Berau, Indonesia, 21 Nov-4 Dec 2010

European meeting of the International Society for Reef Studies (ISRS) 2010, Wageningen, Netherlands, 13-17 Dec 2010

M. Flitner

World Ocean Conference 2009, “Climate change impacts to oceans and the role of oceans to climate change”, Manado, Indonesia, 11-15 May 2009

Envisioning 2050: “Climate change, aquaculture and fisheries in West Africa”, Dakar, Senegal, 12-17 Apr 2010

A. Fricke

European Marine Biological Symposia, EMBS, Heriot-Watt University, Edinburgh, Scotland, 22-27 Aug 2010

C. Fromm

Training course: Open access repository of the Leibniz Association, Technische Informationsbibliothek, Hannover, 1 June 2010

Leibniz Association meeting, AK Bibliotheken und Informationseinrichtungen, Leibniz Institute for New Materials, Saarbrücken, 15-17 Sep 2010

Annual conference of Arbeitsgemeinschaft Meereskundlicher Bibliotheken (AMB), IfM-GEOMAR, Kiel, 26-27 Sep 2010

Training: Re-tooling our profession: new skills for today's info pro, Initiative Fortbildung, Berlin, 2-3 Dec 2010

S. Geist

GENUS workshop: Modelling, IOW, Warnemünde, 24 June 2009

Training course: Fish larvae, BAH Helgoland, 6-17 July 2009

Conference: Ökonomische Aspekte in der Fischproduktion, GMA, Büsum, 10-11 June 2010

Cooperation meeting Department of Environmental Affairs (DEA), Department Agriculture, Forestry & Fisheries (DAFF), South Africa, 15-18 Oct 2010

M. Glaser

- ASLO Aquatic Sciences Meeting 2009. "A Cruise through Nice Waters", Nice, France, 27-31 Jan 2009
- Workshop: River health and people's health, UNRI, Sumatra, Indonesia, 24-25 Feb 2009
- World Ocean Conference 2009, "Climate change impacts to oceans and the role of oceans to climate change", Manado, Indonesia, 11-15 May 2009
- The governance of marine social-ecological systems, Bonn, 29-30 May 2009
- Colloquium on coastal management, IPB, Bogor, Indonesia, 8 Jan 2010
- LOICZ Scientific Steering Committee, Chennai, India, 28 Feb-9 Mar 2010
- International SPICE workshop "Developing theory and supporting policy through multi-level socio-ecological analysis in the context of coastal and marine resources governance", IBP, Bogor, Indonesia, 14-15 Apr 2010
- Grand challenges in global sustainability research: a systems approach to research priorities for the decade, UNESCO, Paris, 21-23 June 2010
- ISEE 2010 Conference "Advancing sustainability in a time of crisis", Oldenburg, 24 Aug 2010
- Storm Surges Congress 2010, Hamburg, 11-16 Sep 2010
- FONA Conference "Forschung für Nachhaltigkeit", FONA, Berlin, 3 Nov 2010
- Workshop CeSIA: Aufbau eines Leibniz Zentrums für nachhaltige Wirkungsmessung, Leibniz Centre for Sustainability Impact Assessment (CeSIA), Berlin, 4 Nov 2010
- SPICE cluster 6 final workshop "People, reefs and fish in Spermonde Archipelago, South Sulawesi", Hasanuddin University, Makassar, Indonesia, WWF-TNC Joint Marine Program, Berau Indonesia, 18-31 Nov 2010
- Workshop "Innovation and transformation in marine social-ecological systems", Cairns, Australia, 1-5 Dec 2010
- European Meeting of the International Society for Reef Studies (ISRS) 2010, Wageningen, Netherlands, 13-17 Dec 2010

B. Grote

- Colloquium: Meeresforschung im Wandel,

AWI, Bremerhaven, 16 Mar 2009

- Fish and climate change, The Fisheries Society of the British Isles Annual Symposium, Queen's University, Belfast, Northern Ireland, 25-30 July 2010

L. Herbeck

- 2nd Sino-German Joint LANCET Workshop, Haikou, Hainan, P.R. China, 5-9 Mar 2010
- ZMT-GMRC workshop, Beihai, P.R. China, 12 Mar 2010

C. Herbon

- International workshop on progress and plan of SPICE cluster 2 phase II, Purwokerto, Indonesia, 25 Feb 2009

S. Hohn

- Joint EPOCA, BIOACID and UKOARP meeting, Bremerhaven, 28-30 Sep 2010

V. Ittekkot

- Colloquium: Meeresforschung im Wandel, AWI, Bremerhaven, 16 Mar 2009
- Third SCOR Summit of International Marine Research Projects, Newark, Delaware, USA, 30 Mar - Apr 2009
- Leibniz Association meeting, Section E, IfM-GEOMAR, Kiel, 21-22 Apr 2009
- World Ocean Conference 2009 "Climate change impacts to oceans and the role of oceans to climate change, Manado, Indonesia, 11-15 May 2009
- 3rd executive committee meeting of the Sino-German Initiative on Marine Sciences, Beijing, P.R. China, 13 Jan 2010
- Interministerial meeting of the German Indonesian Cooperation, Berlin, 6-8 June 2010
- 3rd meeting of the Joint Steering Committee on Cooperation in Geosciences between the Federal Republic of Germany and the People's Republic of China, Helgoland, 7 July 2010
- 16th meeting of the Joint Steering Committee on Cooperation in Marine Sciences and Technology between the Federal Republic of Germany and the People's Republic of China, Cuxhaven, 8 July 2010
- IOC 50th anniversary celebration, Berlin, 6 Oct 2010

T. Jennerjahn

- World Ocean Conference 2009 "Climate change impacts to oceans and the role

Events

Participation in events

of oceans to climate change, Manado, Indonesia, 7-14 May 2009
Seminar "Nachhaltige Zusammenarbeit mit Entwicklungs- und Schwellenländern in Bildung, Wissenschaft und Forschung", Berlin, 28-30 Nov 2010

C. Jessen

European Meeting of the International Society for Reef Studies (ISRS) 2010, Wageningen, Netherlands, 13-17 Dec 2010

D. Kaiser

ZMT-GMRC workshop, Beihai, P.R. China, 12 Mar 2010

R. E. Katikiro

Workshop on climate change and fisheries, Dakar, Senegal, 12-21 Apr 2010

F. Keyl

4th International Workshop on Squid, CIBNOR, La Paz, Mexico, 23 Sep-23 Oct 2010

5th International Symposium on Pacific Squid, CIBNOR, La Paz, Mexico, 23 Sep-23 Oct 2010

S. Kleinertz

Annual conference of the Deutsche Gesellschaft für Parasitologie, Düsseldorf, 16-20 Mar 2010

The XIIth International Congress of Parasitology (ICOPA), Exhibition and Convention Centre Melbourne, Australia, 12-25 Aug 2010

G. Kopprio

Fish and climate change, The Fisheries Society of the British Isles Annual Symposium, Queen's University, Belfast, Northern Ireland, 26-30 July 2010

C. Kovacs

International seminar: managing the biological, physical, chemical, economic and socio-cultural impacts of river pollution, Bung Hatta-University, Padang, Indonesia, 16-17 July 2010

G. Krause

Colloquium: Meeresforschung im Wandel, AWI, Bremerhaven, 16 Mar 2009
ICES meeting "Marine shellfish cultivation and

environmental impact assessment, Marine Institute, Galway, Ireland, 28 Mar-4 Apr 2010
International SPICE workshop "Developing theory and supporting policy through multi-level socio-ecological analysis in the context of coastal and marine resources governance", IBP, Bogor, Indonesia, 14-15 Apr 2010

ICES Annual Science Conference "Synergies and conflicts of multiple uses of marine areas by using marine spatial planning", Nantes, France, 20-24 Sep 2010

Congress "Aquaculture Europe – seafarming tomorrow" 2010, Centro de Congressos da Alfândega, Porto, Portugal, 5-9 Oct 2010

U. Krumme

2nd Sino-German Joint LANCET Workshop, Haikou, Hainan, P.R. China, 5-9 Mar 2010

ZMT-GMRC workshop, Beihai, P.R. China, 12 Mar 2010

Conference on biodiversity "Zukunft sichern – Vielfalt erhalten. Biologische Vielfalt als Grundlage für Entwicklung", Berlin, 14-16 Sep 2010

A. Krutwa

Conference on biodiversity "Zukunft sichern – Vielfalt erhalten. Biologische Vielfalt als Grundlage für Entwicklung", Berlin, 14-16 Sep 2010

A. Kubicek

Third Core Mini-Symposium on Ecological and Biogeochemical Coral Reef Research, Munich, 3-5 May 2009

40. Jahrestagung der Gesellschaft für Ökologie, Justus Liebig University Giessen, 30 Aug-2 Sep 2010

A. Kunzmann

Colloquium: Meeresforschung im Wandel, AWI, Bremerhaven, 16 Mar 2009

World Ocean Conference 2009 "Climate change impacts to oceans and the role of oceans to climate change, Manado, Indonesia, 11-15 May 2009

Training course "Safety at Sea", INASEA, Cuxhaven, 29 Apr 2010

Conference: Ökonomische Aspekte in der Fischproduktion, GMA, Büsum, 10-11 June 2010

R. Lara

International Symposium on Climate Change Effects on Fish and Fisheries: Forecasting Impacts, "Assessing ecosystem responses, and evaluating management strategies, University of Sendai, Japan, 26-29 Apr 2010

M. Lukas

World Ocean Conference 2009, "Climate change impacts to oceans and the role of oceans to climate change", Manado, Indonesia, 11-15 May 2009

Conference: Space, movement and place in southeast Asia, University of California, Berkeley, 2-3 Apr 2010

11th Annual Conference of the International Society for Ecological Economics (ISEE); cluster meeting, University of Oldenburg, 23-25 Aug 2010

1st Conference of graduate schools GLOMAR, ISOS, SICSS, University of Hamburg, Klima Campus, 5-6 Oct 2010

A. Mercio

International Conference on Biodiversity, Special German-French cross-section workshop, Frankfurt a. M., 1-3 Dec 2010

R. Moll

The 2010 International Meeting of the Association for Tropical Biology and Conservation (ATPC), Bali, Indonesia, 19-23 July 2010

GLOMAR annual retreat, Ganderkesee, 30 Sep-2 Oct 2010

I. Nordhaus

International workshop on progress and plan of SPICE cluster 2 phase II, Purwokerto, Indonesia, 25 Feb 2009

Galapagos Science Symposium, Puerto Ayora, Galapagos, 20-24 July 2009

International Conference of the Association for Tropical Biology and Conservation, Sanur, Bali, Indonesia, 17-22 July 2010

M. Nugues

Third Core Mini-Symposium on Ecological and Biogeochemical Coral Reef Research, Munich, 3-5 May 2009

European Meeting of the International Society for Reef Studies (ISRS) 2010, Wageningen, Netherlands, 13-19 Dec 2010

D. Peterke

5th Conference Ionanalyse, Berlin, 1-4 Mar 2009

Training course: Strahlenschutzbeauftragte, FH Jülich, 23-24 Aug 2009

Training course: GC-Techniken, Fa. Varian, Darmstadt, 7-10 June 2010

U. Pint

Leibniz Association meeting, AK Recht and IT, GIGA, Hamburg, 2 Apr 2009

I. Plettner

11th meeting of members of KDM, IfM-GEOMAR, Kiel, 27-28 May 2010

Leibniz Association meeting, AK Europa, IfM-GEOMAR, Kiel, 14-15 June 2010

Leibniz Association Training: Urheberrecht, Open Access, Berlin, 7 July 2010

Leibniz Association meeting, Section E, Düsseldorf, 25-26 Nov 2010

Seminar: Nachhaltige Zusammenarbeit mit Entwicklungs- und Schwellenländern in Bildung, Wissenschaft und Forschung, Berlin, 29-30 Nov 2010

T. Pribadi

Seminar: Aquatic ecology, University of Skövde, Sweden, 21-26 Nov 2010

H. Reuter

World Ocean Conference 2009, "Climate change impacts to oceans and the role of oceans to climate change", Manado, Indonesia, 11-15 May 2009

40th Annual conference of Gesellschaft für Ökologie, Justus Liebig University Giessen, 30 Aug-2 Sep 2010

Leibniz Association workshop, Marie Curie Initial Training Networks (ITN) Anträge, Berlin, 27 Sep 2010

Seminar "Nachhaltige Zusammenarbeit mit Entwicklungs- und Schwellenländern in Bildung, Wissenschaft und Forschung", Berlin, 20-30 Nov 2010

T. Rixen

World Ocean Conference 2009, "Climate change impacts to oceans and the role of oceans to climate change", Manado, Indonesia, 11-15 May 2009

2010 Ocean Sciences Meeting, Portland, Oregon, USA, 22-27 Feb 2010

Benguela Current Commission Meeting, Swakopmund, Namibia, 11-17 Oct 2010

Events

Participation in events

C. Roder

Third Core Mini-Symposium on Ecological and Biogeochemical Coral Reef Research, Munich, 3-5 May 2009

2nd Sino-German Joint LANCET workshop,

Haikou, Hainan, P.R. China, 5-9 Mar 2010

ZMT-GMRC workshop, Beihai, P.R. China, 12 Mar 2010

U. Saint-Paul

Colloquium: Meeresforschung im Wandel, AWI, Bremerhaven, 16 Mar 2009

Symposium: Meeresumwelt, Hamburg, 9-10 June 2009

Symposium: Lateinamerika, Biodiversität – Muster, Prozesse, Erhaltung, Bonn, 11-12 Dec 2009

International symposium on the biodiversity associated with mangrove ecosystems in Southeast Asia, Hanoi, Vietnam, 17-19 May 2010

Meeting of advisory and executive board GTÖ, Frankfurt, 8-9 Nov 2010

Seminar: Nachhaltige Zusammenarbeit mit Entwicklungs- und Schwellenländern in Bildung, Wissenschaft und Forschung, Berlin, 28-30 Nov 2010

Y. Sawall

World Ocean Conference 2009, "Climate change impacts to oceans and the role of oceans to climate change", Manado, Indonesia, 11-15 May 2009

Workshop on biomineralization and micro-analytical methods on microstructures, IfM-GEOMAR, Kiel, 31 Jan-4 Feb 2010

The Second Asian Pacific Coral Reef Symposium, Phuket, Thailand, 20-24 June 2010

A. Schlüter

11th annual meeting of the International Society for Ecological Economics (ISEE), University of Oldenburg, 22-25 Aug 2010

C. Schnack

Colloquium: Meeresforschung im Wandel, AWI, Bremerhaven, 16 Mar 2009

Annual conference of Arbeitsgemeinschaft Meereskundlicher Bibliotheken (AMB), IfM-GEOMAR, Kiel, 27 Sep 2010

C. Schultz

World Ocean Conference 2009, "Climate change impacts to oceans and the role of

oceans to climate change, Manado, Indonesia, 11-15 May 2009

Meeting of the steering committee "Earth and Ocean Science", Manado, Indonesia, 11 May 2009

Meeting of the steering committee "Earth and Ocean Science", Jakarta, Indonesia, 22 Apr 2010
Seminar: Nachhaltige Zusammenarbeit mit Entwicklungs- und Schwellenländern in Bildung, Wissenschaft und Forschung, Berlin, 28-30 Nov 2010

K. Schwerdtner Máñez

International workshop on progress and plan of SPICE cluster 2 phase II, Purwokerto, Indonesia, 25 Feb 2009

Oceans Past II, University of British Columbia, Vancouver, Canada 25 May-1 June 2009

International SPICE workshop "Developing theory and supporting policy through multi-level socio-ecological analysis in the context of coastal and marine resources governance", IBP, Bogor, Indonesia, 14-15 Apr 2010

11th annual meeting of the International Society for Ecological Economics (ISEE), University of Oldenburg, 23-25 Aug 2010
Conference: Oceans Past III: Stories from the sea-history of marine animal populations and their exploitation, Trinity College, Dublin, Ireland, 17-22 Nov 2010

U. Selent

Leibniz Association meeting, AK Finanzen, GIGA, Hamburg, 19-20 Mar 2009

Leibniz Association meeting, AK Recht, GIGA, Hamburg, 2-3 Apr 2009

Leibniz Association meeting, AK Finanzen, Frankfurt a. M., 18-19 Mar 2010

35. Leibniz Association meeting, Verwaltungsausschuss, Leipzig, 22-23 Apr 2010

36. Leibniz Association meeting, Verwaltungsausschuss, Berlin, 23-24 Sep 2010

Leibniz Association meeting, AK Recht, ZEW, Mannheim, 30 Sep-1 Oct 2010

Symposium "Wissenschaftsadministration", ZEW, Mannheim, 18 Oct 2010

Leibniz Association meeting, AK Finanzen, ZEW, Mannheim, 19 Oct 2010

Leibniz Association Annual meeting, Düsseldorf, 24-26 Nov 2010

G. Spörl

ASLO Aquatic Sciences Meeting 2009. "

A Cruise through Nice Waters", Nice, France 24 Jan - 1 Feb 2009

C. Staschok

Training course: "Safety at Sea", INASEA, Cuxhaven, 6-7 July 2010

D. Unger

ASLO Aquatic Sciences Meeting 2009.

"A Cruise through Nice Waters", Nice, France, 24 - 30 Jan 2009

2nd Sino-German Joint LANCET Workshop, Haikou, Hainan, P.R. China, 5 - 9 Mar 2010

ZMT-GMRC workshop, Beihai, P.R. China, 12 Mar 2010

2010 workshop on Sino-German BEIBU project, Guangzhou, China, 12 - 22 Oct 2010

B. Vollan

Workshop CeSIA, Aufbau eines Leibniz Zentrums für nachhaltige Wirkungsmessung, Leibniz Centre for Sustainability Impact Assessment (CeSIA), Berlin, 4 Nov 2010

P. Westhaus-Ekau

Colloquium: Meeresforschung im Wandel, AWI, Bremerhaven, 16 Mar 2009

Opening celebration for Sino-German Year of Science and Education 2009/ 2010, New Forms of International Cooperation – Joint Graduate Programs, Freie Universität Berlin, 30 Mar - 1 Apr 2009

Management 5th Sino-German Summer School, student supervision, OUC, Qingdao, P.R. China, 13 July - 3 Aug 2009

Management Sino-German Initiative on Marine Sciences, Beijing, Qingdao, P.R. China, 11-17 Jan 2010

3rd Executive committee meeting Sino-German Initiative on Marine Sciences, Beijing, P.R. China, 13 Jan 2010

Meetings of Sino-German Initiative on Marine Sciences, Executive committee, Shanghai, Tongji University, Qingdao, OUC, P.R. China, 30 May - 5 June 2010

Final ceremony for Sino-German Year of Science and Education 2009/2010, Shanghai, P.R. China, 1-2 June 2010

Reception German Consul General, Shanghai, P.R. China, 1-2 June 2010

Opening Celebration for 6th Sino-German Summer School "Response of Ocean Biogeochemistry to Global Change", IfM-

GEOMAR, Kiel, 26 - 28 July 2010

5th Sino-German Education Training Forum, Asien-Afrika-Institut, Hamburg, 9 Sep 2010
Seminar "Nachhaltige Zusammenarbeit mit Entwicklungs- und Schwellenländern in Bildung, Wissenschaft und Forschung", Berlin, 28-30 Nov 2010

H. Westphal

Leibniz Association annual meeting, Düsseldorf, 24-26 Nov 2010

C. Wild

European Meeting of the International Society for Reef Studies (ISRS), Wageningen, Netherlands, 13-17 Dec 2010

Participation in events

Research Stays and Expeditions

M. Birkicht

GENUS II-Projekt, RV Discovery Expedition,
Namibia, South Africa, 24 Sep - 14 Oct 2010

H. Brocke

Expedition, Monitoring, Barbados, CARMABI,
Curaçao, Netherlands Antilles,
22 Sep - 22 Dec 2010

S. Bröhl

Field work, Kalimantan, Pulau Derawan,
Indonesia, 7 Feb - 29 Mar 2010

GENUS II-Projekt, RV Discovery Expedition,
Namibia, 9 - 24 Sep 2010

R. Deswandi

SPICE Project, Field work, IPB, Bogor (Bogor
Agricultural Institute); Ministry of Marine
Affairs and Fisheries, Makassar, Indonesia,
12 Apr - 6 June 2010

W. Ekau

Bilateral Project meeting, student supervision,
Swakopmund, Namibia, Kapstadt, Saldanha
Bay, Gragamstown, Durban, South Africa,
3 Feb - 1 Mar 2009

GENUS-Project, Expedition, RV Africana,
Namibian and South African waters,
1 - 15 Dec 2009

RV Discovery Expedition, Dep. Environment,
Cape Town, South Africa, 5 - 16 June 2010

RV Discovery Expedition, Namibia, 10 - 24 Sep 2010

S. Ferse

SPICE project, Manado, Makassar, Indonesia,
5 May - 6 June 2009

Project preparation, IMS, Zanzibar, Tanzania
25 Sep - 11 Oct 2009

SPICE project, Student supervision, UNHAS,
Makassar, Manado, Indonesia, 24 Oct -
15 Nov 2009

SPICE project, evaluation, field work, IPB,
Bogor; Ministry of Fisheries and Marine Af-
fairs, Jakarta, Coral Reef Research Center,
Makassar, Indonesia, 12 Apr - 7 May 2010

SPICE project, student supervision, IPB, Bogor;
Ambon; Coral Reef Research Center,
Makassar, Indonesia, 1 - 12 Aug 2010

SPICE project, student supervision, UNHAS,
Makassar, Indonesia, 21 Nov - 4 Dec 2010

M. Flitner

SPICE project, field work, Java, Indonesia, 5 - 17
Jan 2010

A. Flohr

RV Africana expedition, monitoring, Cape
Town, South Africa, NatMIRC, Swakop-
mund, Namibia, 28 Nov 2009 - 2 June 2010

RV discovery expedition, NatMIRC, Namibia,
25 Aug - 18 Oct 2010

A. Fricke

Coral reef project, field work, CARMABI
Foundation, Curaçao, Netherlands Antilles,
2 Feb - 1 Apr 2009

S. Geist

RV discovery expedition, NatMIRC, Namibia,
25 Aug - 18 Oct 2010

M. Glaser

SPICE project, student supervision, UNRI,
Sumatra, UNHAS, Sulawesi, Indonesia,
17 Feb - 13 Mar 2009

SPICE project, excursion Spermonde, Manado,
Makassar, Indonesia, 11 - 22 June 2009

SPICE project, student supervision,
Jakarta, Bogor, Makassar, Indonesia,
4 - 19 Jan 2010

L. Herbeck

LANCET project, field work, sampling, Hainan,
P.R. China, 18 Mar - 27 Apr 2009

C. Herbon

SPICE project, sampling, UNSOED, Purwokerto,
Indonesia, 1 - 27 Feb 2009

I. Jänen

Expedition MADURA monitoring, sampling,
Jakarta/ Surabaya, Indonesia, 3 Oct - 8 Nov
2010

D. Kaiser

Field work, GMRC, Beihai, P.R. China,
26 Feb - 4 Apr 2010

Sampling, field work, GMRC, Beihai, P.R. China,
23 Aug - 26 Oct 2010

C. Kovacs

SPICE project, sampling, Pekanbaru, Padang,
Indonesia, 5 - 18 July 2010

U. Krumme

LANCET project, field expedition, Hainan, P.R.
China, 17 Mar - 28 Apr 2009

Project preparation, IMS, Zanzibar, Tanzania,
25 Sep - 11 Oct 2009

Research Stays and Expeditions

LANCET project, expedition, Haikou, Hainan, Beihai, P.R. China, 1-14 Mar 2010

CEMarin opening celebration, field work, Universidad del Valle, Santa Marta, Colombia, 4-18 Oct 2010

A. Kubicek

Project preparation, IMS, Zanzibar, Tanzania, 25 Sep - 11 Oct 2009

Project preparation, Universidade Eduardo Mondlane Maputo, Maputo, Mozambique, 20-21 June 2010

Modelling, Institute for Marine Sciences, Sansibar, 23-30 June 2010

A. Kunzmann

RV discovery expedition, GENUS project, Namibia, South Africa, 21 Sep - 20 Oct 2010

Sampling project "At the heart of climate change", University of Auckland, New Zealand, 17 Nov - 18 Dec 2010

R. J. Lara

Measuring, University of Puerto Rico, San Juan, Puerto Rico, 9-20 Mar 2010

L. Lehnhoff

RV discovery expedition, Namibia, South Africa, 25 Aug - 18 Oct 2010

Min Li

LANCET project, field work, sampling, Hainan, P.R. China, 18 Mar - 28 Apr 2009

M. Lukas

SPICE project, field work, student supervision, Indonesia, 22 Mar - 5 Aug 2009

SPICE project, field work, student supervision, Indonesia, 6 Oct 2009 - 31 Mar 2010

SPICE project, field work, student supervision, Indonesia, 20-31 May 2010

R. Moll

SPICE project, field work, Segara Anakan Lagoon, Purwokerto, Indonesia, 1 Feb - 17 Mar 2009

I. Nordhaus

SPICE project, field work Segara Anakan Lagoon, Jakarta, Purwokerto, Indonesia, 1-28 Feb 2009

Field studies on Santa Cruz and Isabela, Puerto Ayora, Galapagos, 11-19 July 2009

M. Nugues

Coral reef research, student supervision, Carmabi Foundation, Curaçao, 3-26 Feb 2009

Coral reef research, East Kalimantan, Derawan Island, Indonesia, 11 Jan - 18 Feb 2010

FORCE, coral reef research, Barbados, CARMABI, Curaçao, Netherlands Antilles, 27 Feb - 14 Mar 2010

Coral reef research, student supervision, Barbados, CARMABI, Curaçao, Netherlands Antilles, 18-28 May 2010

Coral reef research, student supervision, Barbados, CARMABI, Curaçao, Netherlands Antilles, 25 Sep - 7 Oct 2010

Coral reef research, student supervision, Barbados, CARMABI, Curaçao, Netherlands Antilles, 31 Oct - 12 Nov 2010

Coral reef research, Kalimantan, Derawan Island, Indonesia, 26 Nov - 6 Dec 2010

J. Oxmann

Field work Mekong Delta (Ganh Hao), University of Natural Science, Ho Chi Minh City, Vietnam, 4-27 May 2009

C. Propp

Project "Mandura-Monitoring", expedition, sampling, Surabaya, Indonesia, 3 Oct - 8 Nov 2010

G. Quéré

Sampling, Barbados, CARMABI, Curaçao, Netherlands Antilles, 22 Sep - 22 Dec 2010

I. Radjawali

SPICE project, field work, Indonesia, 12 Apr - 6 June 2010

T. Rixen

Expedition Golfo de Papagayo, San Jose, Costa Rica, 8 Apr - 1 May 2009

SPICE project, sampling, Pekanbaru, Manado, Indonesia, 7-15 May 2009

SPICE project, sampling, Pekanbaru, Indonesia, 4-9 July 2010

GENUS project, sampling, Namibia, 2-24 Sep 2010

H. Reuter

SPICE project, Spermonde expedition, Manado, Makassar, Indonesia, 5 May - 6 June 2009

Project preparation, IMS, Zanzibar, Tanzania, 25 Sep - 11 Oct 2009

Project preparation, CIBNOR, La Paz, Mexico;

Research Stays and Expeditions

IMARPE, Lima, Peru, 2-11 Nov 2009
Project preparation, Universidade Eduardo
Mondlane Maputo, Maputo, Mosambik,
20-24 June 2010

C. Roder

LANCET project, measuring, Haikou, Hainan,
Beihai, Shanghai, P.R. China,
4-25 Mar 2010

U. Saint-Paul

Fieldwork, Gujarat Forest Development Proj-
ect, mangrove afforestation, Forest Depart-
ment, Ahmedabad, Gandhinagar, India,
1 Oct-12 Nov 2009

Fieldwork, Gujarat Forest Development Proj-
ect, mangrove afforestation, Forest Depart-
ment, Ahmedabad, Gandhinagar, India,
1-31 Mar 2010

Fieldwork, Gujarat Forest Development Proj-
ect, mangrove afforestation, Forest Depart-
ment, Ahmedabad, Gandhinagar, India,
4-30 Oct 2010

Field work, Ostional, Costa Rica,
19 July – 4 Aug 2010

Y. Sawall

Field work, Ko Racha, PMBC, Phuket, Thailand,
26 Feb-9 Apr 2009

SPICE project, field work, Makassar, Manado,
Indonesia, 15 Feb-15 July 2009

K. Schwerdtner Máñez

SPICE project, field work, Jakarta, Purwokerto,
Indonesia, Mu Koh Phi Phi, Thailand,
14 Feb-15 Mar 2009

Guest scientist stay, University of Vigo, Depart-
ment of Applied Economics, Vigo, Spain,
18 Mar-2 Apr 2010

G. Spörl

Sugarcane project, sampling, UFAL, Maceió,
Brazil, 6-21 Mar 2009

C. Staschok

LANCET project, sampling, Hainan, P.R. China,
29 Mar-27 Apr 2009

RV discovery expedition, sampling, Namibia,
South Africa, 24 Sep-14 Oct 2010

Field work, Guangxi Mangrove Research Cen-
ter, Benhai, China, 23 Aug-16 Sep 2010

M. Teichberg

Coral reef project, field work, CARMABI

Foundation, Curaçao, Netherlands Antilles,
2 Feb-4 Mar 2009

W. Tianci

LANCET project, sampling, Hainan, P.R. China,
8 Mar-8 May 2009

D. Unger

LANCET project, sampling, Hainan, P.R. China,
20 Mar-1 Apr 2009

Project preparation, IMS, Zanzibar, Tanzania,
25 Sep-11 Oct 2009

LANCET project, expedition, Haikou, Hainan,
Beihai, P.R. China, 26 Feb-14 Mar 2010

H. Westphal

RV Maria S. Merian Expedition 16-3,
Mauretania, PHAETON (upwelling, dust
archive, and palaeoclimate record on the
Mauritanian Shelf), 13 Oct-20 Nov 2010

A. Wolf

Field work, Barbados, CARMABI, Curaçao,
Netherlands Antilles, 28 Feb-14 June 2010

Field work, Barbados, CARMABI, Curaçao,
Netherlands Antilles, 22 Sep-22 Dec 2010

Project Meetings

C. Brandt

Initiation of collaboration, University of Wageningen, 19-20 Aug 2010

K. Diele

Presentation of SAW development plan, Leibniz Association, Berlin, 7 Oct 2010

W. Eku

GENUS, kick-off meeting, IfBM, Hamburg, 25 Mar 2009

GENUS project, annual meeting, ZMAW, Hamburg, 25 Mar 2010

GENUS project, project meeting, IHF, Hamburg, 18 June 2010

Planning RV Merian Expedition 2011, IOW, Warnemünde, 12 July 2010

Planning BCC Forum and GENUS II, Inst. f. Biogeochemie, Hamburg, 18 Aug 2010

S. Ferse

SPICE Project meeting, RISTEK, Jakarta, Indonesia, 14-19 Feb 2009

SPICE project, preparation final workshop, DKP, Jakarta; IPB, Bogor; UNHAS, Makassar, Indonesia, WWF-TNC, Beran; Derawan; University of Bornea, Tarakan, Indonesia, 4 Jan-13 Feb 2010

A. Flohr

GENUS project, Project meeting, IHF, Hamburg, 18 June 2010

Cooperation, Department of Environmental Affairs (DEA), Cape Town, South Africa, 25 Aug-18 Oct 2010

GENUS project, logistics, IHF, University of Hamburg, 22-23 Nov 2010

GENUS project, preparation expedition MSM 17/3, University of Hamburg, 9 Dec 2010

S. Geist

GENUS annual meeting, ZMAW, Hamburg, 25 Mar 2010

GENUS project meeting, IHF, Hamburg, 18 June 2010

GENUS project meeting, ZMAW, Hamburg, 29 Oct 2010

GENUS project, logistics, IHF, University of Hamburg, 22-23 Nov 2010

GENUS project, preparation expedition MSM 17/3, University of Hamburg, 9 Dec 2010

M. Glaser

LOICZ meeting, ICZM planning, Chennai,

India, 28 Feb-9 Mar 2010

SPICE project, Workshop, IPB, Bogor; Ministry of Fisheries and Marine Affairs, Jakarta, Coral Reef Research Enter, Makassar, Indonesia, 12 Apr-7 May 2010

Conference preparation of Deutsche Gesellschaft für Humanökologie, Amper-Kliniken, Munich, 14-19 July 2010

Conference preparation of Deutsche Gesellschaft für Humanökologie, Amper-Kliniken, Munich, 27-29 Dec 2010

B. Grote

Meeting DFG project, AWI, Bremerhaven, 20 Dec 2010

V. Ittekkot

SCOR summit, cooperation meeting, Newark, Delaware, Washington D.C., USA, 27 Mar-3 Apr 2009

LANCET project meeting, Haikou, Hainan, P.R. China, 10-13 Apr 2009

SPICE project meeting steering committee, Jakarta, Manado, Indonesia; OUC, Qingdao, P.R. China, 8-17 May 2009

Sino-German Cooperation on Marine Sciences, Post-LANCET, Beijing, Chinese University of Geosciences, Wuhan, P.R. China, 6-17 Jan 2010

Initiation meeting SPICE III, RISTEK, Jakarta; Universitas Jenderal Soedirman, Purwokerto, Indonesia, 19-25 Aug 2010

Expertising BMBF project, SPACES, Namibia 26 Oct-1 Nov 2010

Presenting BMBF project SPACES, Berlin, 2-3 Nov 2010

T. Jennerjahn

SPICE project, workshop cluster 2, conclusion meeting clusters 2 and 5, UNSOED, Purwokerto, IPB, Bogor, BPPT, Jakarta, Indonesia, 22 Feb-6 Mar 2009

D. Kaiser

Meeting BEIBU project, IOW, Warnemünde, 8-10 June 2010

F. Keyl

Meeting DFG project, IfM-GEOMAR, Kiel, 10-11 Mar 2009

U. Krumme

Project preparation, IMS, Zanzibar, Tanzania, 25 Sep-11 Oct 2009

Project Meetings

LANCET project, ZMT-GMRC workshop,
Haikou, Hainan, Beihai, P.R. China, 1-14 Mar
2010

A. Kunzmann

Continuation, development AIF Project, Berlin,
2-3 July 2009

BMBF workshop, Biota, Inkaba, Namibia,
24 May-2 June 2009

GENUS project, preparation, AWI, Helgoland,
14 July 2009

GENUS annual meeting, ZMAW, Hamburg,
25 Mar 2010

Presenting project proposal, AIF, Berlin,
15-16 Aug 2010

GENUS II meeting, ZMAW, Hamburg, 24 Aug 2010

R. J. Lara

Collaboration meeting, University of Osaka,
Alexander von Humboldt-Stiftung, Bonn,
10-11 Mar 2009

Collaboration meeting, Instituto Argentino de
Oceanografía (IADO), Bahía Blanca,
Argentina, 11-28 Dec 2010

A. Merico

Project preparation, IfM-GEOMAR, Kiel,
10 June 2010

Collaboration meeting, National Oceanography
Centre, Southampton, UK, 25-28 Aug 2010

R. Moll

ATBC Meeting, Bali, Indonesia, 9-25 July 2010

I. Nordhaus

Presentation of SAW development plan,
Leibniz Association, Berlin, 6-7 Oct 2010

M. Nugues

FORCE Kick off Meeting, University of the
West Indies, Bridgetown, Barbados,
1-3 Mar 2010

Initiation of collaboration, University of
Wageningen, 19-20 Aug 2010

H. Reuter

DFG project meeting, IfM-GEOMAR, Kiel,
11 Mar 2009

Preparation GfÖ meeting biodiversity, Gießen,
4-5 Mar 2010

S. Rick

BEIBU, Project meeting, IOW, Warnemünde,
8-9 June 2010

T. Rixen

Preparation of DFG proposal, Mobility-Program,
Makassar, Jakarta, Indonesia, 5-11 Aug 2010

U. Saint-Paul

Vietnam project meeting, University of Kiel,
25 Jan 2010

Project preparation, INVEMAR, Bogota,
Colombia, CATIE, Turrialba/Ostional, Costa
Rica, 17-31 May 2010

Y. Sawall

Collaboration meeting, KAUST, Thuwal, Saudi
Arabia, 5-10 Oct 2010

A. Schlüter

Collaboration meeting, University of Hamburg,
13 Sep 2010

K. Schwerdtner Máñez

Project planning, University of Wageningen,
Netherlands, 22-25 June 2009

SPICE project, workshop, evaluation, IPB,
Bogor, Nationalarchiv, Jakarta, Indonesia,
12-22 Apr 2010

C. Schultz

SPICE coordination meeting, Indonesische
Botschaft, Berlin, 28 Jan 2009

SPICE project, executive committee meeting,
Jakarta, Indonesia, 15-24 Apr 2010

SPICE III coordination meeting, Purwokerto,
Jakarta, Indonesia, 18-26 Aug 2010

SPICE II coordination meeting with project
executing organisation Jülich, Rostock-
Warnemünde, 17-21 Nov 2010

M. Teichberg

Project cooperation, Marine Biological Labora-
tory, Woods Hole, USA, 5-21 Mar 2009

D. Unger

BEIBU project meeting with Chinese guest sci-
entists, IOW, Warnemünde, 8 June 2010

LANCET project meeting, ECNU, Shanghai,
P.R. China, 13-22 Oct 2010

P. Westhaus-Ekau

Summer school, coordination, Ocean Univer-
sity of China, Qingdao, P.R. China,
14-21 May 2009

Management 5th Sino-German Summer School,
student supervision, OUC, Qingdao, P.R.
China, 13 July – 3 Aug 2009

Project Meetings

Management Sino-German Initiative on Marine Sciences, Beijing, Qingdao, P.R. China, 11-17 Jan 2010

Meetings of Sino-German Initiative on Marine Sciences, executive committee, Shanghai, Tongji University, Qingdao, OUC, P.R. China, 30 May - 5 June 2010

Preparing 4th executive committee meeting, Ocean University of China, Qingdao, China, 8-16 Nov 2010

Visitors and Guest Researchers

Seno **Adi**, BPPT, Jakarta, Indonesia, 2 - 13 Aug 2010

Dr. Luky **Adrianto**, Center for Coastal and Marine Resources Studies, IPB, Bogor, Indonesia, 26 - 30 Oct 2010

Abdulaziz **Al-Marzouqi**, Marine Science and Fisheries Center, Muscat, Oman, 14 - 28 Sep 2009 / 2 - 30 July 2010

Dr. Zhang Guo **An**, SKLEC, ECNU, Shanghai, P.R. China, 21 - 22 June 2010

Verania **Andria**, Univ. for Natural Resources and Applied Life Sciences, Vienna, Austria, 9 Dec 2008 - 15 Jan 2009

Dr. Marie Caroline **Badjeck**, World Fish Center, Penang, Malaysia, 13 - 17 July 2009

Dr. Florencia **Biancalana**, Argentine Institute of Oceanography, Bahia Blanca, Argentina, 7 Sep 2009 - 7 Mar 2010

Dr. **Budiauto**, Coordination Ministry for Peoples Welfare (KESRA), Jakarta, Indonesia, 17 - 21 Aug 2009

MSc. Facundo Matias **Barrera**, Universidad Nacional del Sur, Bahia Blanca, Argentina, 23 Oct 2010 - 21 Feb 2011

Prof. Shanhong **Cao**, Ocean University of China, Qingdao, P.R. China, 2 - 4 Aug 2010

Gustavo Adolfo **Castellanos-Galindo**, Cali, Colombia, 29 June - 8 July 2009

Hongmei Chen, Consul General, Consulate, Hamburg, 26 Feb 2010

Prof. Dr. Xiaoyong **Chen**, Dept. of Environmental Sciences, ECNU, Shanghai, P.R. China, 17-20 May 2010

Dr. Xueen **Chen**, Institute of Physical Oceanography, Ocean University of China, Qingdao, P.R. China, 12 - 16 June 2009

Prof. Dr. Heqin **Cheng**, SKLEC, ECNU,

Shanghai, P.R. China, 17 - 20 May 2010 / 21 - 22 June 2010

Prof. Hua **Dai**, International Office, OUC, Qingdao, P.R. China, 27 - 29 May 2010

Peijian **Dai**, GMRC, Beihai, Guangxi, P.R. China, 31 May - 18 June 2010

Dr. Ario **Damar**, Agricultural University Bogor, Center for Coastal and Marine Resources Studies, Bogor, Indonesia, 3 - 18 Nov 2009

Dr. Laurent **Delvoye**, CARMABI, Nieuwegein, Netherlands, 12 - 16 July 2010

Prof. Shuanglin **Don**, Vice President, OUC, Qingdao, P.R. China, 27 - 29 May 2010

Hoang Trung **Du**, Institute of Oceanography, Nha Trang, Vietnam, 9 Sep - 5 Oct 2009

Dr. Tjut Sugandawaty **Djohan**, Gadjah Mada University, Faculty of Biology, Yogyakarta, Indonesia, 25 - 29 Oct 2010

MSc. Ahmad **Faizal**, Marine & Fishery Faculty, Hasanuddin University, Makassar, Indonesia, 7 Oct - 13 Dec 2010

Prof. Hontao **Fan**, Research Vessel Centre of the Ocean University of China, Qingdao, P.R. China, 12 - 16 June 2009

Prof. Gang **Fu**, Dean, Graduate School, OUC, Qingdao, P.R. China, 27 - 29 May 2010 / 30 July - 1 Aug 2010

Yu **Fujiang**, Assistant of the Director, National Marine Environmental Forecasting Center, Beijing, P.R. China, 6 July 2010

M.Sc. Lata **Gawade**, National Institute of Oceanography, Goa, India, 2 Feb - 30 Apr 2009

Dr. M.V.S. **Guptha**, National Institute of Oceanography, Dona Paula, India, 1 Aug 2009 - 31 Jan 2010

Visitors and Guest Researchers

- Dr. Aryo **Hanggono**, Director, Research Center for Marine Technology, Ministry of Marine Affairs and Fisheries, Indonesia, 11 June 2009
- Dr. Tony **Hickey**, University of Auckland, New Zealand, 28 Apr - 5 May 2009
- Elizabeth **Hill**, University of Namibia, Henties Bay, Namibia, 23 Mar - 20 Apr 2009
- Dr. Joachim **Harms**, Project executing organization Jülich, 6 July 2010
- Dr. Sisira **Haputhantri**, National Aquatic Resources Research and Development Agency (NARA), Colombo, Sri Lanka, 1 Sep - 30 Nov 2010
- Prof. Dr. Hari Eko **Irianto**, Research Center for Marine and Fisheries Product Processing and Biotechnology, Jakarta, Indonesia, 25 - 30 Oct 2010
- Prof. Dr. Indra **Jaya**, Agricultural University Bogor, IPB, Bogor, Indonesia, 30 June - 3 July 2009
- MSc. Anders **Jensen-Schmidt**, Federal University Rio Grande do Sul, Brazil, 30 Mar - 30 Nov 2009
- Li **Jiabiao**, Deputy Director, Second Institute of Oceanography, P.R. China, 6 July 2010
- Dr. Carlos **Jiménez**, CIMAR, University of Costa Rica, San Jose, Costa Rica, 27 Feb - 15 Mar 2009 / 6 July - 6 Aug 2009 / 14 - 17 Feb 2010
- Prof. Lin **Jin**, State Key Laboratory of Estuarine and Coastal Research, ECNU, Shanghai, P.R. China, 17-20 May 2010
- Prof. Dr. Jamaluddin **Jompa**, Hasanuddin University, Makassar, Indonesia, 25-29 Oct 2010
- Dr. Susan **Jones**, MCM, Cape Town, South Africa, 17 July - 14 Aug 2010
- Dr. Muhammad Mukhlis **Kamal**, Coordinator, IPB, Bogor, Indonesia, 30 June - 3 July 2009
- Dr. Ehsan **Kamrani**, Hormozgan University, Dept. of Marine Biology, Islamic Republic of Iran, 14 Jan - 15 Mar 2010
- Mrs. Halima **Kiwango**, Saadani National Park, Monitoring Dept., Tanzania, 1 Nov 2008 - 31 Jan 2009
- MinR Wilfried **Kraus**, BMBF, 6 July 2010
- Tinghe **Lai**, GMRC, Beihai, Guangxi, P.R. China, 31 May - 18 June 2010
- Dr. Nguyen Njoc **Lam**, Institute of Oceanography, Nha Trang, Vietnam, 20 - 24 June 2009
- Prof. Huajun **Li**, Vice President, OUC, Qingdao, P.R. China, 27 - 29 May 2010
- Li **Lin**, Program officer, Dep. Science and Technology, 6 July 2010
- Dipl. Inf. Yue **Liu**, International Office, OUC, Qingdao, P.R. China, 27 - 29 May 2010
- Dr. Marek **Lipinski**, Marine and Coastal Management (MCM), Cape Town, South Africa, 13 - 20 Nov 2010
- Prof. Jin **Liu**, Consultant in Shanghai Waterway Survey and Design Institute and the National Oceanic Administration, East China Normal University, Shanghai, P.R. China, 21 - 22 June 2010
- Dr. Junhong **Li**, State Key Laboratory, ECNU, Shanghai, P.R. China, 15 Sep - 15 Dec 2010
- Dr. Dessy **Mantiri**, University of Sam Ratulangi, Manado, Indonesia, 11 June 2009
- Nada **Marsud**, RISTEK, Jakarta, Indonesia, 25 - 30 Oct 2010
- MSc. Taisa Baroso **Matos**, Universidade Estadual do Norte Fluminense (UENF), Campos, Brazil, 5 Oct 2009 - 1 Jan 2010
- Xandra **Maya**, Director, Marine and Fisheries Office, Provincial Government of North Sulawesi, Indonesia, 11 June 2009
- Prof. Dr. Karl Ulrich **Mayer**, President of Leibniz Association, Berlin, 31 Aug 2010
- Dr. Wijarn **Meepol**, Phuket Marine Biological Center, Phuket, Thailand, 24 - 27 Feb 2010
- Li **Mingbi**, Chief of Division, Second Institute of Oceanography, P.R. China, 6 July 2010
- Dr. Matern **Mtolera**, Institute of Marine Science, Zanzibar, Tanzania, 6 - 10 July 2009
- Dr. Ajim **Muchtar**, Coordination Ministry for Peoples Welfare (KESRA), Jakarta, Indonesia, 17 - 21 Aug 2009
- Dr. Christopher **Muhando**, Institute of Marine Science, Zanzibar, Tanzania, 6 - 10 July 2009
- Asep Djembar **Muhammad**, Coordination Ministry for Peoples Welfare (KESRA), Jakarta, Indonesia, 17-21 Aug 2009
- Dr. May Thu **Naing**, Mandalay Technological University, Mandalay, Myanmar, 14 Sep - 16 Dec 2010
- Dr. Yul Y. **Nazarrudin**, Education Attaché, Indonesian Embassy, Berlin, 17 Feb 2010 / 26 Aug 2010
- Muhammad **Neil**, Center for Coral Reef Research, Makassar, Indonesia, 11 Nov 2008 - 16 Jan 2009 / 10 - 28 Nov 2009
- MSc. Diem My Tran **Ngoc**, Department of Ecology, Evolutionary Biology, University of Sciences, Ho Chi Minh City, Vietnam, 27 July - 27 Aug 2010
- Prof. Khairil Anwar **Notodiputo**, Dekan,

Visitors and Guest Researchers

- Post Graduate School, IPB, Indonesia, 17 Feb 2010
- Dr. Larry **Oellermann**, University of Namibia, Henties Bay, Namibia, 23 - 27 Mar 2009
- MinR Reinhold **Ollig**, BMBF, 6 July 2010
- Dr. Wahyu Widodo **Pandoe**, Centre for Marine Survey Technology (BPPT), Jakarta, Indonesia, 25 - 30 Oct 2010
- Sainab Husain **Paragay**, Faculty for Marine Science and Fisheries, Hasanuddin University, Makassar, Indonesia, 26 - 28 Aug 2010
- Jorge **Paramo**, Instituto de Investigaciones Tropicales, Universidad de Magdalena, Santa Marta, Colombia, 1 July - 15 Dec 2010
- Dr. Haryadi **Permana**, Earth Dynamics and Geological Hazard Division, LIPI, Bandung, Indonesia, 25 - 30 Oct 2010
- MSc. Huong **Pham**, University of Natural Sciences, Ho Chi Minh City, Vietnam, 3 May - 2 Nov 2010
- Dr. Widodo S. **Pranowo**, Research Center and Development for Marine and Coastal Resources, Jakarta, Indonesia, 15 - 17 Nov 2010
- H. E. Eddy **Pratomo**, Ambassador of the Republic of Indonesia for Germany, Berlin, 26 Aug 2010
- MSc. Santiago Enrique **Priotto**, Universidad Nacional del Sur, Bahía Blanca, Argentina, 23 Oct 2010 - 8 May 2011
- Dr. Agus Heri **Purnomo**, Research Centre for Marine and Fisheries Socio-economic, Jakarta, Indonesia, 9 - 17 June 2010 / 26 - 29 Oct 2010
- Prof. Dr. Shihua **Qi**, School of Environmental Studies, University of Geosciences, Wuhan, P.R. China, 20 - 27 June 2010
- Nguyen Van **Quan**, Institute of Marine Environment and Resources, Haiphong City, Vietnam, 21 Nov 2009 - 19 Jan 2010
- Prof. Dr. A. L. **Ramanathan**, School of Environmental Science, Jawaharlal Nehru, University of New Delhi, India, 20 - 22 June 2010
- Zheng **Rui**, Program officer, Dept. International Cooperation, 6 July 2010
- Selli **Salbiah**, RISTEK, Jakarta, Indonesia, 7 - 13 Dec 2009
- Dr. Joko **Samiaji**, Universitas RIAU, Pekanbaru, Indonesia, 7 - 10 June 2009 / 24 - 29 Oct 2010
- Prof. Dr. Iracilda **Sampaio**, Campus Universitário de Bragança, UFPa, Bragança, Brazil, 19 Dec 2008 - 20 Jan 2009 / 21 Dec 2010 - 20 Jan 2011
- Dr. Simoni **Santos**, Campus Universitário de Bragança, UFPa, Bragança, Brazil, 19 Dec 2008 - 20 Jan 2009
- Dr. Moh. Husein **Sastranegara**, University of Jenderal Soedirman, Faculty of Biology, Purwokerto, Indonesia, 25 - 30 Oct 2010
- Prof. Dr. Horácio **Schneider**, Campus Universitário de Bragança, UFPa, Bragança, Brazil, 19 Dec 2008 - 20 Jan 2009 / 21 Dec 2010 - 20 Jan 2011
- Meng **Shuguang**, Embassy of P.R. China, 6 July 2010
- Ruben **Silitonga**, RISTEK, Jakarta, Indonesia, 7 - 13 Dec 2009
- Prof. Dr. Suharsono **Soemorumecko**, Research Center for Oceanography, LIPI, Jakarta, Indonesia, 22 - 27 Nov 2010
- Dr. Indroyono **Soesilo**, Executive Secretary of the Coordinating Ministry for People's Welfare, Indonesia, 11 June 2009
- Dr. Frank **Stiller**, Internationales Büro des BMBF, 6 July 2010
- Dr. Günter **Subklew**, Research Center Jülich, 6 July 2010
- Prof. Dr. **Suharsono**, Director of Research Center for Oceanography, LIPI, Jakarta, Indonesia, 15 - 19 July 2009
- Dr. Purnawa **Sukardi**, Jenderal Soedirman University, Purwokerto, Indonesia, 4 - 6 May 2010
- Dr. Ali **Suman**, Research Institute of Inalnd Wall Fisheries, Palembang, Indonesia, 11 - 16 Mar 2009 / 15 - 19 Mar 2010
- Suharna **Surapranata**, Indonesian Minister of Research and Technology, 4 Oct 2010
- Beau **Tjizoo**, NatMIRC, Swakopmund, Namibia, 16 June - 5 July 2009 / 5 - 28 Apr 2010 / 5 - 22 Dec 2010
- Dr. Vo Si **Tuan**, Institute of Oceanography, Nha Trang, Vietnam, 20 - 24 June 2009
- Wannahiat **Tubtimsang**, Phuket Marine Biological Center, Phuket, Thailand, 24 - 27 Feb 2010
- Dr. Reiny Authoneta **Tumbol**, Sam Ratulauji University, Manado, 17 - 21 Aug 2009
- Carlos Eduardo **Veiga de Carvalho**, Universidade Estadual do Norte Fluminense (UENF), Centro de Biociências e Biotecnologia, Rio de Janeiro, Brazil, 28 Sep 2009 - 30 Sep 2010
- Dr. Hans **Verheye**, MCM, Cape Town, South Africa, 13 - 30 June 2009 / 2 - 14 Aug 2010
- Prof. Dr. Aimin **Wang**, Hainan University,

Visitors and Guest Researchers

- Ocean College, Haikou, P.R. China, 18-25 Feb 2010
- Dr. Hongmei **Wang**, School of Environmental Studies, University of Geosciences, Wuhan, P.R. China, 20-28 June 2010
- Luo **Wei**, Associate Researcher, Polar Research Institute of China, 6 July 2010
- MSc Petrus Agustinus **Wenno**, Marine & Fishery Faculty, Hasanuddin University, Makassar, Indonesia, 7 Oct-13 Dec 2010
- Dr. Singgih **Wibowo**, Research Center for Marine and Fisheries Product Processing and Biotechnology, Jakarta, Indonesia, 25-30 Oct 2010
- Dr. Yusli **Wordiatuo**, Faculty of Fisheries and Marine Sciences, IPB, Bogor, Indonesia, 30 June-3 July 2009
- Hongbo **Wu**, Ambassador, Berlin, 26 Feb 2010
- Prof. Ying **Wu**, SKLEC, ECNU, Shanghai, P.R. China, 1-30 May 2010
- Jiang **Xiaowei**, Embassy of P.R. China, 6 July 2010
- Prof. Chen **Xiaoyong**, Vice-Director, College of Resources and Environments, ECNU, Shanghai, P.R. China, 21-22 June 2010
- Prof. Dr. Guifang **Xue**, OUC, Institute for the Law of the Sea, Qingdao, P.R. China, 8-20 Nov 2010
- Bing **Yan**, GMRC, Beihai, Guangxi, P.R. China, 31 May-18 June 2010
- Mr. Sheng **Yu**, Research Vessel Centre of the Ocean University of China, Qingdao, P.R. China, 12-16 June 2009
- Yuni **Yumiarti**, Universitas Jenderal Soedirman, Fakultas Biologi, Purwokerto, Indonesia, 19 May-13 July 2009
- Dr. Haswan **Yunaz**, Coordination Ministry for Peoples Welfare (KESRA), Jakarta, Indonesia, 17-21 Aug 2009
- Prof. Dr. Edy **Yuwono**, Jenderal Soedirman University, Purwokerto, Indonesia, 4-6 May 2010
- Dr. Alfian **Zein**, Bung Hatta University, Padang, Indonesia, 12 Dec 2009-30 Jan 2010
- Hua **Zeng**, Consul Attaché, Consulate, Hamburg, 26 Feb 2010
- Dr. Guo An **Zhang**, SKLEC-ECNU, Shanghai, P.R. China, 17-20 May 2010
- Guoseu **Zhang**, SKLEC, ECNU, Shanghai, P.R. China, 15 Oct-30 Nov 2009
- Prof. Jing **Zhang**, SKLEC, ECNU, Shanghai, P.R. China, 6-20 Aug 2010
- Prof. Suping **Zhang**, Ocean University of China, Qingdao, P.R. China, 30 July-1 Aug 2010

Capacity Building

Scientific writing, ZMT (sandwich program, IPB Bogor, **G. Krause, L. Dsikowitzky, C. Carvalho**), WT 09/10

Biogeochemistry in Indonesian Seas, ZMT (sandwich program, IPB Bogor, **T. Rixen**), WT 09/10

Aquatic pollution, ZMT (sandwich program, IPB Bogor, **T. Jennerjahn, L. Dzikowitzky, C. Carvalho**), WT 09/10

Coral reef biology and conservation, ZMT (sandwich program, IPB Bogor, **M. Nugues**), WT 09/10

Connectivity and ecological modeling, ZMT (sandwich program, IPB Bogor, **H. Reuter**), WT 09/10

Development of joint projects, ZMT sandwich program, IPB Bogor, **C. Schultz**), WT 09/10

Counteracting degradation of reefs: conservation, management and restoration, ZMT (sandwich program, IPB Bogor, **S. Ferse**), WT 09/10

Teaching at the ZMT

ISATEC

International Studies in Aquatic Tropical Ecology (K. Bischof, W. Ekau, S. Ferse, M. Glaser, T. Jennerjahn, G. Krause, A. Kunzmann, I. Nordhaus, H. Reuter, U. Saint-Paul, K. Schwerdtner Mánéz, M. Teichberg, P. Westhaus-Ekau, M. Wolff), WT 08/09 - WT 10/11

Lectures

Tropical coastal ecosystems (K. Diele, I. Nordhaus, M. Teichberg), WT 08/09

Fisheries biology (W. Ekau, P. Westhaus-Ekau, M. Wolff), WT 08/09, WT 09/10

Tropical aquaculture and its physiological basics (U. Saint-Paul), WT 08/09

Tropical aquaculture and its physiological basics (A. Kunzmann), WT 09/10

Tropical fisheries and catching methods (W. Ekau, U. Saint-Paul), WT 08/09, WT 09/10

Scientific writing (M. Teichberg), WT 08/09, WT 09/10

Global change and marine systems (V. Ittekkot), WT 08/09, WT 09/10, ST 10

Biochemistry of tropical marine systems (V. Ittekkot), WT 08/09, WT 09/10, ST 10

Ökologie tropischer Küsten und Ästuare (U. Saint-Paul), WT 08/09, WT 09/10, ST 10

Ringvorlesung Umwelt- und Meereschemie: Meeres- und Umweltchemie unter Bedingungen des globalen Wandels (R. Lara), WT 08/09

Principles of marine ecophysiology (K. Bischof), WT 08/09, WT 09/10

General introduction to marine microbiology (K. Bischof), WT 08/09, WT 09/10

Applied scientific training (K. Bischof), WT 08/09, WT 09/10

Einführung in die organismische Meeresbiolo-

gie (K. Bischof), WT 08/09, WT 09/10

Research management and funding opportunities (K. Bischof), WT 08/09, WT 09/10

Introduction into systems analysis (H. Reuter), WT 08/09, WT 09/10

Biogeochemical cycling of elements in the aquatic environment (T. Jennerjahn), ST 09, ST 10

Coastal geomorphology & coastal processes (G. Krause), ST 09, ST 10

Population dynamics & stock assessment (M. Wolff), ST 09, ST 10

Trophic modeling of ecosystems (M. Wolff), ST 09, ST 10

Modelling spatio-temporal dynamics (H. Reuter), ST 09, ST 10

Modelling the dynamics of marine resources under environmental variability (M. Wolff), ST 09

Ecological economics I (K. Schwerdtner Mánéz), ST 09

Participatory techniques & stakeholder analysis (M. Glaser, K. Schwerdtner Mánéz), ST 09

Participatory techniques & stakeholder analysis (S. Ferse, K. Schwerdtner Mánéz), ST 10

Interdisciplinarity between natural & social sciences (S. Ferse, M. Glaser, K. Schwerdtner Mánéz), ST 09

Interdisciplinarity between natural & social sciences (S. Ferse, K. Schwerdtner Mánéz), ST 10

Ecological economics I (A. Schlüter), ST 10

Ecological economics II (K. Schwerdtner Mánéz), ST 09

Einführung in die Umweltpolitik: Lokale, nationale und internationale Fragen (M. Flitner), ST 09

Molekulare Tracer zur Untersuchung mariner Stoffkreisläufe (R. Lara), ST 09, ST 10

Teaching at the University of Bremen

Capacity Building

Teaching at the University of Bremen

Fisheries biology and aquaculture (W. Ekau, U. Saint-Paul), ST 09, ST 10
 Ecophysiology of marine algae (K. Bischof), ST 09, ST 10
 Aquatic flora (K. Bischof, K. Springer), WT 09/10
 Umwelt- und Meereschemie: Meeres- und Umweltchemie unter Bedingungen des globalen Wandels (R. Lara), WT 09/10
 Formenkenntnis Tiere (U. Krumme et al.), ST 10
 Pflanzenphysiologie (K. Bischof et al.), ST 10
 Introduction to political ecology (Einführung in die politische Ökologie (M. Flitner), ST 10
 Umwelt und Gesellschaft (Environment and Society) (M. Flitner), ST 10
 Fisheries biology and aquaculture (Blockveranstaltung) (W. Ekau, U. Saint-Paul), ST 10

Practical courses

Helgoland excursion (K. Bischof), WT 08/09, WT 09/10
 Aquatic flora (K. Bischof, K. Springer), WT 08/09, WT 09/10
 Tropical coastal ecosystems (K. Diele, I. Nordhaus, M. Teichberg), WT 08/09
 Tropical coastal ecosystems (A. Kunzmann, I. Nordhaus), WT 09/10
 Fisheries biology (W. Ekau, P. Westhaus-Ekau, M. Wolff), WT 08/09, WT 09/10
 Tropical aquaculture and its physiological basics (U. Saint-Paul), WT 08/09
 Tropical aquaculture and its physiological basics (A. Kunzmann), WT 09/10
 Tropical fisheries and catching methods (W. Ekau, U. Saint-Paul), WT 08/09, WT 09/10
 Scientific writing (M. Teichberg), WT 08/09, WT 09/10
 Introduction into systems analysis (H. Reuter), WT 08/09, WT 09/10
 Student research project: Impacts of tropical peat swamp deforestation on aquatic ecosystems in central Sumatra, Indonesia (T. Rixen), WT 08/09, WT 09/10
 Student research project: Ecology and biodiversity of pelagic communities in the South Atlantic Ocean (W. Ekau), WT 08/09, WT 09/10
 Interdisziplinäre und transdisziplinäre Aspekte des Fischereimanagements (U. Saint-Paul), WT 08/09, WT 09/10
 Moderne organische Spurenanalytik in der marinen Biogeochemie (R. Lara),

WT 08/09, WT 09/10
 Einführung in die Biologie mariner Algen (K. Bischof, K. Springer), WT 08/09, WT 09/10
 Principles of marine ecophysiology (K. Bischof), WT 08/09, WT 09/10
 Marine microbiology and botany (K. Bischof), WT 08/09, WT 09/10
 Applied scientific training (K. Bischof), WT 08/09, WT 09/10
 Einführung in die organismische Meeresbiologie (K. Bischof), WT 08/09
 Research management and funding opportunities (K. Bischof), WT 08/09, WT 09/10
 Grant proposal and defence (K. Bischof), WT 08/09, WT 09/10
 Meeresforschungsinstitute im Lande Bremen (K. Bischof), WT 08/09, WT 09/10
 International marine environmental conservation (U. Meyer), WT 08/09, WT 09/10
 Meeresbotanik: MitarbeiterInnen-Seminar und Anleitung zum selbständigen wissenschaftlichen Arbeiten (K. Bischof), WT 08/09, ST 09, WT 09/10
 Tropenökologisches Seminar und Anleitung zum selbständigen wissenschaftlichen Arbeiten (U. Saint-Paul), WT 08/09, ST 09, WT 09/10
 Tropenökologisches Kolloquium (U. Saint-Paul), WT 08/09, WT 09/10, ST 10
 Tropenökologisches Kolloquium (K. Bischof), ST 09
 Biogeochemical cycling of elements in the aquatic environment (T. Jennerjahn), ST 09, ST 10
 Coastal geomorphology & coastal processes (G. Krause), ST 09, ST 10
 Population dynamics & stock assessment (M. Wolff), ST 09, ST 10
 Trophic modelling of ecosystems (M. Wolff), ST 09, ST 10
 Modelling spatio-temporal dynamics (H. Reuter), ST 09, ST 10
 Modelling the dynamics of marine resources under environmental variability (M. Wolff), ST 09
 Ecological economics I (K. Schwerdtner Mánéz), ST 09
 Participatory techniques & stakeholder analysis (M. Glaser, K. Schwerdtner Mánéz), ST 09
 Participatory techniques & stakeholder analysis (S. Ferse, K. Schwerdtner Mánéz), ST 10
 Interdisciplinarity between natural & social sciences (M. Glaser, K. Schwerdtner Mánéz), ST 09

Capacity Building

Interdisciplinarity between natural & social sciences (S. Ferse, K. Schwerdtner Máñez), ST 10

Ecological economics II (K. Schwerdtner Máñez), ST 09

Thesis seminar (K. Bischof, K. Springer), ST 09

Pflanzenphysiologie (K. Bischof), ST 09, ST 10

Meeresbiologie (K. Bischof), ST 09

Ökologie tropischer Küsten und Ästuar (U. Saint-Paul), ST 09, ST 10

Molekulare Tracer zur Untersuchung mariner Stoffkreisläufe (R. Lara), ST 09, ST 10

Fisheries biology and aquaculture (W. Ekau, U. Saint-Paul), ST 09, ST 10

Ecophysiology of marine algae (K. Bischof), ST 09, ST 10

Thesis and defence (K. Bischof), ST 09, ST 10

Formenkenntnis Tiere (U. Krumme et al.), ST 10

Seminars and colloquia

Aquatic flora (K. Bischof, K. Springer), WT 09/10

Scientific writing (M. Wolff, M. Teichberg), WT 09/10

Einführung in die Biologie mariner Algen (K. Bischof, K. Springer), WT 09/10

Principles of marine ecophysiology (K. Bischof et al.), WT 09/10

Applied scientific training (K. Bischof et al.), WT 09/10

Research management and funding opportunities (K. Bischof et al.), WT 09/10

Grant proposal and defence (K. Bischof et al.), WT 09/10

International marine environmental conservation (U. Meyer et al.), WT 09/10

Meeresbotanik: MitarbeiterInnen-Seminar und Anleitung zum selbständigen wissenschaftlichen Arbeiten (K. Bischof), WT 09/10

Tropenökologisches Seminar und Anleitung zum selbständigen wissenschaftlichen Arbeiten (U. Saint-Paul), WT 09/10

Tropenökologisches Kolloquium (U. Saint-Paul), WT 09/10

Thesis seminar (K. Bischof, K. Springer), ST 10

Konfliktfeld Wasser: Probleme und Perspektiven (M. Flitner), ST 10

Carbon cycle, evolution of key species and the CO₂ problem (T. Rixen), ST 10

Tropenökologisches Seminar und Anleitung zum selbständigen wissenschaftlichen Arbeiten (U. Saint-Paul), ST 10

Meeresbotanik: MitarbeiterInnen-Seminar und Anleitung zum selbständigen wissenschaftlichen Arbeiten (K. Bischof), ST 10

Teaching at the University of Bremen

Sunflowers, morals, framing and a natural experiment (A. Schlüter), 29 Sep 2010

Teaching at Jacobs University

Respiration physiology, Inter-University Institute IUI of the Hebrew University Jerusalem, Eilat, Israel (A. Kunzmann), 17 Feb - 6 Mar 2009

Limnology, UFPa, Belém, Brazil (U. Saint-Paul), 22- 25 Apr 2009

Ecologia Aquática e Pesca, UFPa, Belém, Brazil (U. Krumme), 11- 15 May 2009

Marine Ecology Summer Training (MEST), Universitas Hasanuddin, Makassar, Indonesia (S. Ferse), 24 Oct - 15 Nov 2009

Coral reef restoration - background and ap-

proaches, Department of Fisheries and Marine Science, Manado, Indonesia (S. Ferse), 13 Nov 2009

Respiration Physiology of Marine Animals, Hebrew University Jerusalem, IUI, Eilat, Israel (A. Kunzmann), 5 - 16 Jan 2010

Introduction into Ecological Modelling, University of Daresaalam, Sansibar (H. Reuter), 14 - 18 June 2010

Integrated Coastal Zone Management, INVEMAR, St. Marta, Bogota, Colombia (A. Schlüter), 18 - 21 May 2010

Teaching at other partner institutions

Capacity Building

Completed dissertations

- Lena Brey: Acclimation of kelp photosynthesis to seasonal changes in the underwater radiation regime of an Arctic fjord system (K. Bischof), 2009
- Maria-Isabel Criales Hernandez: Spatio-temporal variability of zooplankton community structure and trophic processes off Central Peru (M. Wolff), 2009
- Jana Fredersdorf: Interactive effects of ultraviolet radiation and other abiotic factors on photosynthesis of Arctic macroalgae (K. Bischof), 2009
- Britta Grote: The early life strategy of Cape hakes in the Benguela upwelling system off South Africa (W. Ekau), 2010
- Carin Jantzen: Primary production in coral reefs: key players and adaptive strategies to natural environmental variations (C. Richter), 2009
- Friedemann Keyl: The Cephalopod *Dosidicus gigas* of the Humboldt Current System under the Impact of Fishery and Environmental Variability (M. Wolff), 2009
- Julian Oxmann: Influence of substrate characteristics on phosphorus dynamics in replanted mangrove forests, Southern Vietnam (R. Lara), 2009
- Sascha Romatzki: Reproduction strategies of stony corals (Scleractinia) in an equator near, Indonesian coral reef. Contributions for the reef restoration (M. Wolff, A. Kunzmann), 2009
- Cornelia Roder: Coral acclimatization to disturbance (C. Richter), 2010
- Yvonne Sawall: Coral resistance to natural and anthropogenic disturbances (C. Richter), 2010
- Gertraud Maria Schmidt: Corals & waves: calcification and bioerosion in Large Amplitude Internal Wave (LAIW) affected coral reefs (K. Bischof), 2010
- Franciska Steinhoff: Phlorotannins as UV-protective substances in early developmental stages of brown algae (K. Bischof), 2010

Ongoing dissertations

- Abdulaziz Said Mohammed Al Marzouqi: Biology, stock assessment and fishery management of the santer seabream *Cheilimerius nufar* (Val. 1830) from the Arabian Sea off Oman (U. Saint-Paul, W. Ekau)
- Milena Arias-Schreiber: Fisheries sustainability and coastal governance in the Humboldt and Benguela Upwelling areas (M. Flitner, M. Glaser)
- Anne Baumgart: Biogeochemische Stoffkreisläufe vor Indonesien (T. Jennerjahn)
- Susanne Becker: Photoinhibition at low temperatures: DI-turnover in Antarctic rhodophytes (K. Bischof)
- Gustavo Castellanos-Galindo: The temporal and spatial variability of nursery habitats for fishes in macrotidal mangrove systems of Colombia and Brazil: implications for conservation and fisheries resources (U. Saint-Paul, U. Krumme)
- Gabriel Claramunt Quiñones: Reproductive biology of *Engraulis ringens*, egg quality, and survival of the offspring in Chilean waters (U. Saint-Paul)
- Shilly Elizabeth David: Catchment scale human interventions in the Pamba basin (Kerala, India) and their impact on estuarine ecosystem in the southern Vembanad Estuary (T. Jennerjahn)
- Rio Deswandi: The roles of local institutions in coral reefs management and their contribution to social and ecological resilience in Spermonde Archipelago, South Sulawesi (M. Flitner, M. Glaser)
- Alejandro Espinoza: Qualitative tools for the spatial and temporal representation of marine ecosystems (Local Ecological Knowledge, Driving Forces-Pressure-State/Impact-Responses indicators model, Loop Analysis, and Geographical Information System) (M. Wolff, U. Krumme)
- Wang Fei: Environmental impact and social implications of ecotourism in marine protected areas (MPA) – application of an agent-based modelling approach (H. Reuter, M. Glaser)
- Anita Flohr: Biogeochemical dynamics of the Namibian upwelling system, (T. Rixen)
- Anna Fricke: Modulating effects of UV-radiation on the succession of the tropical macro algal communities (K. Bischof)
- Simon Joscha Geist: Trophic position and physiological adaptations of early life stages of pelagic fish of the Northern Benguela Current upwelling system and their role in the food web (W. Ekau, A. Kunzmann, U. Saint-Paul)
- Hartoyo: Coastal management and socio-

Capacity Building

- economic development in Segara Anakan Lagoon: scenarios for sustainable natural resource management (M. Flitner, K. Schwerdtner Máñez)
- Carolyn Herbon: Benthic nutrient cycling in the mangrove fringed Segara Anakan Lagoon (K. Bischof, I. Nordhaus)
- Ingo Jänen: Saisonale Variabilität der Auswirkungen der Nährstoff- und Organikeinträge des Brantas Flusses auf die Wasserqualität und Biogeochemie der Madurastraße, Java, Indonesia (T. Jennerjahn)
- David Kaiser: Die Bedeutung von Mangroven für die biogeochemischen Stofftransporte in die Küstenökosysteme des Beibu Golf unter dem Einfluss anthropogener Veränderungen (D. Unger)
- Martina Keller: Marine protected areas – boon or bane for the Philippines small scale fishery? (M. Wolff)
- Germán Kopprio: Influence of climatic variability on the ecohydrology and biogeochemistry of brackish coastal lagoons (R. Lara)
- Wiebke Krämer: Photoecophysiology of zooxanthellae of hermatypic corals (K. Bischof, C. Richter)
- Lucia Herbeck: Land-based activities affecting the fluxes and transformation of nutrients and organic matter from watershed to the coastal sea (T. Jennerjahn)
- André Klicpera: The role of carbonate secreting organisms on sediment composition, redistribution, and modification on clastic shelves and their potential as environmental bioarchives (H. Westphal)
- Annika Krutwa: Small scale differences in subtidal benthic communities and succession processes between two sites of Floreana Island (Galápagos) exposed to different oceanographic regimes as related to gradients of substrate complexity (M. Wolff)
- Andreas Kubicek: Modelling Phase-shifts in coral systems (H. Reuter)
- Martin Lukas: Land use/land cover change and environmental governance in the Segara Anakan lagoon and its catchment area, Java, Indonesia (M. Flitner, M. Glaser)
- Regine Moll: Impact of benthic organisms and anthropogenic activities in the hinterland on the carbon- and nutrient-biogeochemistry in the mangrove fringed Segara Anakan Lagoon, Java, Indonesia (T. Jennerjahn)
- Jorge Enrique Paramo Granados: Deep-water fisheries in the Colombian Caribbean Sea: exploration, evaluation and habitat condition analysis that determine abundance and spatial distribution as tools for responsible fishing (U. Saint-Paul)
- Quynh Huong Pham: The coupling between vibrio and nitrogen, phosphorus dynamics in a mangrove-salt marsh ecotone (R. Lara)
- Tri Dewi Pribadi: Macroalgae as bioabsorbers of nutrients of aquaculture effluents (K. Bischof)
- Claudia Propp: Sources and fate of particulate organic matter in the sediments of the Brantas estuary, Java, Indonesia (T. Jennerjahn)
- Irendra Radjawali: Multi-agent social-ecological systems modelling of livelihood strategies and governance in a coastal social-ecological system (M. Flitner, H. Reuter, M. Glaser)
- Alejandra Sepúlveda Lozada: Food-web dynamics in estuarine ecosystems in Southeast Gulf of Mexico using stable isotope analysis (U. Saint-Paul)
- Gertrud Spörl: Impact of sugar cane cultivation on biogeochemistry and phytoplankton dynamics in a tropical Lagoon and estuary in Brazil (T. Jennerjahn)
- Alexander Wolf: The role of benthic algae in coral reef resilience (M. Nugues)

Ongoing dissertations

- Sonja Kleinertz: Fischparasiten als Bioindikatoren: zum Umweltstatus von Küstenökosystemen und einer Zackenbarschmarikultur in Indonesien, 2010
- Ute Magiera: Die Besiedlung von Süßwasserlebensräumen durch Palaemonetes argentinus, Nobili 1901 (Decapoda: Caridea; Palaemonidae): Experimentelle und morphologische Untersuchungen zur Larvalentwicklung (ZMT Supervisor: U. Saint-Paul), 2009
- Roberto Schwarz jr.: Composição, estrutura e abundância da ictiofauna capturada com redes de arrasto de portas na plataforma continental interna rasa do litoral do Paraná (ZMT Supervisor: U. Saint-Paul), 2009

Completed external dissertations

Capacity Building

Ongoing external dissertations

- Lucinaldo Blandtt: Capacitação da resiliência social através de metodologias participativas: Experiências em comunidades amazônicas, (capacitation of social resilience with participatory methodologies, UFFa, Campo Universitario de Belém, Brazil (ZMT Supervisor: M. Glaser)
- Neila Cabral: O setor pesqueiro brasileiro e o desempenho das estruturas e sistemas de representação política, Universidade Federal do Pará (ZMT Supervisor: M. Glaser)
- Cleise Cordeiro da Cruz: Influence on sediment biogeochemistry on the distribution of mangrove vegetation on the Braganca Peninsula, Pará, Brazil, UFFA, Belém, Brazil (ZMT Supervisor: R. Lara)
- J. M. Corrêa: Influência do pulso de inundação na estrutura de comunidades de peixes em áreas de várzea no rio Tauá, Estado do Pará, UFFA, Belem, Brazil (ZMT Supervisor: U. Saint-Paul)
- Anders Jensen-Schmidt: Recruitment biology and spatial dynamics of the mangrove crab *Ucides cordatus*, Federal University Rio Grande do Sul, Brazil (ZMT Supervisor: K. Diele)
- Lualhati Lachica Aliño: Soft Bottom ecosystem benthic-pelagic coupling: the interaction of topographic and hydrographic attributes and fisheries potentials, University of the Philippines (ZMT Supervisor: M. Wolff)
- Helenice Leal Risuenho dos Santos: Use of aminoacids and pyrite as indicator of redox conditions in mangrove sediment, Universidade Federal Fluminense, Rio de Janeiro, Brazil (ZMT Supervisor: R. Lara)
- Mizanur Rahman: Studies on the Sustainable Aquaculture and Reproductive Biology of Finfishes-White Spotted Spinefoot-Safi (*Siganus canaliculatus*) and Large Scale Mullet-Biah (*Liza macrolepis*) at the Umm Al-Qaiwain Lagoon of UAE, United Arab Emirates University (UAEU) (ZMT Supervisor: U. Saint-Paul)
- Darlan Simith: Postlarval settlement and juvenile ecology of the mangrove crab *Ucides cordatus*, Universidade federal do Pará, Braganca, Brazil (ZMT Supervisor: K. Diele)
- Chia-Chi Wu: Multi-actors and multi-criteria marine protected area design in southern Penghu archipelago, Taiwan, University of Bonn (ZMT Supervisor: M. Glaser)
- Dewi Yanuarita: Coral reef and social resilience in Spermonde Archipelago, South Sulawesi, Hassanuddin University, Makkassar, South Sulawesi, Indonesia (ZMT Supervisor: M. Glaser)

Completed diploma and master's theses

- Anne Buhmann: Untersuchungen zum Phytoremediationspotential zweier Mangrovenarten (ZMT Supervisor: A. Kunzmann), 2009
- Rebecca Carstensen: Photophysiological responses of the calcifying, green macroalga *Halimeda opuntia* to shifting pH regimes (ZMT Supervisor: K. Bischof), 2009
- Lorenzo Franchescinis: Routine metabolic rate and critical oxygen levels of Cape horse mackerel larvae and juveniles in the Northern Benguela (ZMT Supervisor: A. Kunzmann, U. Saint-Paul), 2009
- Stefanie Grass: Respiration und Kalzifizierung in *Tridacna maxima* und *Tridacna squamosa* als Funktion von Lichtintensität und Nährstoffangebot, University of Oldenburg (ZMT Supervisor: A. Kunzmann), 2009
- Sebastian Kaspers: Nutritional value of the shrimp *Litopenaeus vannamei* fed several feed additions (ZMT Supervisor: A. Kunzmann, U. Saint-Paul), 2009
- Polina Khrycheva: Anthropogenic organic contaminants in water and sediments from the Segara Anakan Lagoon, Indonesia (ZMT Supervisor: V. Ittekkot, L. Dsikowitzky), 2009
- Dorothea Kohlmeier: Physiologische Effekte der Canopy-Entfernung auf die Unterwuchsalggen der Helgoländer Gezeitenzone (ZMT Supervisor: K. Bischof), 2009
- Min Li: Menge und Zusammensetzung partikulärer Aminosäuren und Aminosucker in den Flüssen Wenchang und Wenjiao und ihrem Ästuar, Hainan, China (ZMT Supervisor: D. Unger, T. Jennerjahn), 2009
- C. Nebel: River reef impact in Nha Trang Bay, Vietnam: The potential use of $\delta^{15}\text{N}/\delta^{13}\text{C}$ isotopes as tracer of anthropogenic input in a heterogenic environment (ZMT Supervisor: A. Kunzmann, K. Bischof), 2009
- Angela Scharfbillig: Ecology of two back reef areas on the southern Chinese Island Hainan (ZMT Supervisor: U. Saint-Paul, U. Krumme), 2009

Capacity Building

- Kim Smyla: The connection between innovations and sustainability in a globalized world, Faculty of Business Studies and Economics, Bremen University (ZMT Supervisor: M. Glaser), 2009
- Andrea Wagner: Untersuchungen zur Stressphysiologie der Zooxanthellen aus der Riesenmuschel *Tridacna spec.* (ZMT Supervisor: K. Bischof, A. Kunzmann), 2009
- Tianci Wang: Zeitliche und räumliche Dynamik der Fischgemeinschaft in der Wenchang-Bucht (Ost-Hainan, Südchinesisches Meer) (ZMT Supervisor: U. Saint-Paul, U. Krumme), 2009
- Svenja Beilfuss: Feeding impact of herbivorous fishes on the brown alga *Lobophora variegata*: a species-specific approach along a depth gradient (ZMT Supervisor: K. Bischof, M. Nugues), 2010
- Stephanie Czudaj: Reproductive biology, behavioural ecology and metabolic physiology of sepiolids (ZMT Supervisor: U. Saint-Paul), 2010
- C. Kümmel: Detection and classification for Cuvier's beaked whale (*Ziphius cavirostris*) echolocation clicks from towed array recording: real-time and post-processing approaches (ZMT Supervisor: U. Saint-Paul), 2010
- Dominique Maier: Variabilität des Phytoplanktons im tidenbeeinflussten Wenchangästuar, Ost-Hainan, Südchinesisches Meer (ZMT Supervisor: K. Bischof, U. Krumme), 2010
- Katharina Michalowski: Wachstum und trophische Stellung der subtropischen Grundel *Sufflogobius bibarbatus* im Nahrungsgefüge des nördlichen Benguela-Auftriebssystems (ZMT Supervisor: W. Ekau, U. Saint-Paul), 2010
- Hendrik Monsees: Einfluss von Licht auf die Nitrifikation mikrobieller Biofilme auf „Lebenden Steinen“ in marinen Zierfischzuchtanlagen (ZMT Supervisor: A. Kunzmann), 2010

Completed diploma and master's theses

- Isabel Caamano: Temperature tolerance of cultured zooxanthellae (ZMT Supervisor: K. Bischof)
- Christiane Felder: Der gemeindeorientierte und partizipative Ansatz von Caritas International als Beitrag zur Katastrophenprävention in Guatemala (ZMT Supervisor: M. Flitner)
- Catherine Fürsich: Stomach content of the spiny lobster (*Panulirus argus*) juveniles in their algal phase in the South of Cayo Matias/Cuba (M. Wolff)
- Philipp Gorris: Nachhaltige Nutzung mariner Ressourcen: Partizipatives Management von Marine Protected Areas auf den Philippinen (ZMT Supervisor: M. Glaser)
- Zainab Husain: Analysis of factors affecting resilience towards climate change on several islands in the Spermonde Archipelago, Sulawesi, Indonesia (ZMT Supervisor: S. Ferse)
- Janine Jachtner: Effects of grazer exclusion and nutrient enrichment on primary algal succession and settlement potential of the benthos for corals (ZMT Supervisor: M. Nugues)
- Pia Kegler: On the metabolic activity of the anemonefish *Amphiprion ocellaris* (ZMT Supervisor: A. Kunzmann)
- Roger Madrigal: Community based approaches for managing common-pool resources in Costa Rica (ZMT Supervisor: A. Schlüter)
- Moritz Lürig: How do elevated levels of nitrate, CO₂ and temperature affect the physiology of the scleractinian corals *Seriatopora hystrix* and *Stylophora pistillata*? (ZMT Supervisor: A. Kunzmann)
- Sophie Martens: Traditional ecological knowledge of the fishermen in the Spermonde Archipelago, Indonesia (ZMT Supervisor: M. Glaser)
- Friedrich Meyer: The effect of ocean acidification on the survival, development and metabolism of tropical crab larvae (ZMT Supervisor: K. Diele, U. Saint-Paul)
- Bastian Piltz: Diversity of benthic cyanobacteria in the coral reefs of Curaçao (ZMT Supervisor: M. Nugues)
- Katrin Prüter: River health and diagnostic results on community health along Siak river, Sumatra, Indonesia, MSc Public Health (ZMT Supervisor: M. Glaser)
- Christian Reichel: Nutzerkonflikte und -kulturen der Segara Anakan Lagoon, West Java, Indonesien (ZMT Supervisor: M. Glaser)

Ongoing diploma and master's theses

Capacity Building

Ongoing diploma and master's theses

- Bianca Risopp: Diversität, Gemeinschaftsstruktur und zeitlich-räumliche Variation von Makrobenthos in der Segara Anakan Lagoon, Java (ZMT Supervisor: M. Wolff, I. Nordhaus)
- George Rushingisha: Modeling Coral - Coral-limorpharia interactions under varying anthropogenic inputs along the coast of Tanzania (ZMT Supervisor: H. Reuter)

- Eva Suhren: River health and perceived community health along Siak river, Sumatra, Indonesia (ZMT Supervisor: M. Glaser)
- Berend Zacher: Photosynthese und Respiration in *Tridacna maxima* und *Tridacna squamosa* als Funktion von Lichtintensität und Nährstoffangebot (ZMT Supervisor: A. Kunzmann)

Completed bachelor's theses

- Melanie Koch: Struktur von Fischgemeinschaften in unterschiedlichen Habitaten in der Masbat Bay, Dahab, Süd-Sinai, Ägypten (ZMT Supervisor: U. Saint-Paul, M. Wolff), 2010
- Janina Korting: Leaching of dissolved inorganic nutrients from mangrove leaves of the Segara Anakan Lagoon, Java, Indonesia (ZMT Supervisor: T. Jennerjahn), 2009
- Julian Rau: Analyse der Fischgemeinschaft im Wenchang-Ästuar, Ost-Hainan (Südchinesisches Meer), (ZMT Supervisor: U. Saint-Paul), 2010

- Hauke Schwieder: Comparison of the benthos community composition, regarding to sediment parameters, in two areas of the Segara Anakan Lagoon in south-central Java, Indonesia (ZMT Supervisor: I. Nordhaus), 2009

Capacity Building

ISATEC master's theses

Term 2007-2009

- Wasistini Baitoningsih (Indonesia): Community participation in designing Marine Protected Area in Spermonde Archipelago, South Sulawesi, Indonesia (M. Glaser, G. Krause, S. Ferse)
- Carolina Becerra Contreras (Colombia): A framework for coastal water stress management. A case study of the western Mediterranean (M. Flitner, K. Schwerdtner Mañez)
- Coen Bosboom (Netherlands): Implementing Grouper mariculture as an alternative livelihood in the Marine Protected Area of Berau, East Kalimantan Indonesia (S. Ferse)
- Arianto Budi Santoso (Indonesia): Spatio-temporal variation of dissolved and particulate organic carbon and nutrients in Segara Anakan Lagoon, Indonesia (T. Jennerjahn, D. Unger)
- Antonius Freiherr von Gagern (Germany): Population dynamics and fisheries potential of the Galapagos Grouper *Mycoteroperca olfax* (M. Wolff, W. Ekau)
- Gloria Gallego (Columbia): Impacts of flow changes induced by dams on water-dependent livelihoods in the Tonle Sap, Cambodia; a gender perspective (U. Saint-Paul, K. Schwerdtner Mañez)
- Rachel Sapery James (Papua New Guinea): Tidal surge disaster impact NIP, PNG (W. Ekau, A. Kunzmann)
- Robert Eliakim Katikiro (Tanzania): Shifting environmental baselines among fishers of Tanga coastline, northeast Tanzania (K. Schwerdtner Mañez, M. Flitner)
- Niklas Lücke (Germany): Contributions to the nutrient budget of a modified extensive shrimp farm in India, including the application of biofilters (A. Kunzmann, K. Bischof)
- Angela Maria Oviedo Sabogal (Colombia): Leaf-litter production and leaching of dissolved organic carbon and dissolved inorganic nutrients in the Segara Anakan mangrove forest, Java, Indonesia (I. Nordhaus, T. Jennerjahn)
- Md. Harun Or Rashid (Bangladesh): Mangrove-based shrimp fry fisheries in Bangladesh: Government policies and associated socio-economic dynamics involving fry collectors (M. Glaser, K. Schwerdtner Mañez)
- Janina Seemann (Germany): Adaptive processes of corals to anthropogenic impacts

with focus on lipid and protein reserves, Indonesia (K. Bischof)

Mesfin Mengesha Tsegaye (Ethiopia): Heavy metal concentrations in the fish of selected Ethiopian rift valley lakes (L. Dsikowitzky)

Sivartharsahn Yoganathan (Sri Lanka): Organic pollutants in benthic animals and fish from a mangrove fringed lagoon (Segara Anakan), South-Central Java, Indonesia (I. Nordhaus, L. Dsikowitzky)

Term 2008-2010

- Esteban Acevedo Trejos (Costa Rica): Spatial ecology of the dwarf round stingray *Urotrygon nana* in the Gulf of Nicoya, Costa Rica (H. Reuter, K. Bischof)
- Marielle Dumestre (France): An analysis of the holothurian fishery and associated socio-economic issues in the Spermonde Archipelago (South Sulawesi, Indonesia) (S. Ferse, K. Schwerdtner Mañez)
- Claudia Gomez Alfaro (Peru): Population dynamics and feeding ecology of seastars in the Galapagos Archipelago (M. Wolff, K. Bischof)
- Remjius Ngeso Gwaye (Kenia): The effect of *Ligula intestinalis* on the biology of *Rastrineobola argentea* and its implications on the economics of the fishery in Lake Victoria, Kenyan waters (W. Ekau)
- Manuel Jänig (Germany): Sharks in mangrove-fringes habitats of the Galapagos Marine Reserve (GMR) with implications for management and conservation (K. Diele, M. Wolff, U. Saint-Paul)
- Julia Jantke (Germany): Transformation of fisheries practices on the Sangihe Islands, Indonesia: A social investigation (M. Flitner)
- Katharina Michalowski (Germany): Growth performance of the pelagic goby *Sufflogobius bibarbatatus* in Namibian upwelling waters (W. Ekau, U. Saint-Paul)
- Pulakesh Mondal (Bangladesh): Evaluation of impact of co-management of a wetland on conservation of fisheries biodiversity – A case study in Ramsar site (Tangour Haour) of Bangladesh (M. Glaser)
- Alexandra Ostmann (Germany): Diversity and spatial variation of meiofauna in the Segara Anakan Lagoon, Java, Indonesia (I. Nordhaus)

Capacity Building

ISATEC master's theses

Maricela Rodriguez Gongora (Colombia):
Abiotic and biotic factors controlling the
distribution and abundance of macroalgae
in propoots of mangrove on the Caeté
estuary, Brazil (U. Krumme, M. Teichberg)

Liesa-Marlena von Essen (Germany):
Assessment of sea cucumber farming as an
alternative source of income for the local
community in Likupang area, North Su-
lawesi, Indonesia (A. Kunzmann, M. Glaser,
S. Ferse)

Daniel Wangpraseurt (Germany): The in situ
microenvironment of corals and benthic
algae: Assessing coral-algal interactions on
a micron scale (M. Nugues, K. Bischof)

Term 2009-2011

Regina Therese Bacalso (Philippines): Investi-
gating fisheries impacts of illegal/destructive
fishing operations in a municipal fishery in
the Danajon Bank, North-Western Bohol,
Philippines (M. Wolff)

Kathryn Berry (Canada): Heavy metal accu-
mulation in scleractinian corals from
Almirante Bay, Panama (M. Nugues)

Lorel Dandava (Papua New Guinea): Prelimi-
nary socioeconomic impact assessment of
the marine aquarium trade on fishing com-
munities: a Papua New Guinea case study
(W. Ekau, K. Schwerdtner Máñez)

Kalvis Grinvalds (Latvia): Influence of lunar and
diel dynamics on a tidal creek fish com-
munity in a mangrove estuary from Trang
province, Thailand (U. Krumme)

Daniela Grunder (Switzerland): Variations
in mercury accumulation in the shrimp
species *Xiphopenaeus kroyeri* from the
Northeastern Coast of Rio de Janeiro
State, Brazil (L. Dsikowitzky)

H.M. Moniruzzaman (Bangladesh): Female
contribution from homestead aquaculture
to family livelihood in south-west coastal
districts of Bangladesh (M. Glaser)

Adilah Ponnurangam (Tanzania): Biogeochemical
characterization of the sources of carbon
and nutrient input in the Brantas River,
estuary and coastal waters of Madura
Strait, Java, Indonesia (T. Jennerjahn)

Ario Putra (Indonesia): Successional patterns
on *Porites* sp. predated by *Acanthaster* sp.:
A Coral quadrat photo analysis on Derawan
Island, Sangalaki Island, and Kakaban Island
(Berau, East of Kalimantan) (M. Nugues)

Hans Sloterdijk (Canada): On the distribution
and biological characteristics of the alien
mosquitofish (*Gambusia affinis*) in a South
African Ramsar wetland (W. Ekau)

Paul Mboya Tuda (Kenia): Temporal and spatial
patterns in the abundance, feeding and
reproduction of *Lile stolifera* (Jordan &
Gilbert 1882) in the intertidal mangrove of
Bahía Málaga, Pacific Colombia
(U. Krumme)

Kibru Teshome Zeleke (Ethiopia): The tempo-
ral variation in physico-chemical charac-
teristics, planktonic biomass, diversity and
primary productivity in three crater lakes
in Ethiopia (K. Bischof)

Cephas Kwesi Zu (Ghana): Assessment of
age, growth and food habit of the black-
chinned tilapia, *Sarotherodon melano-*
theron (Rüppell, 1852) from two lagoons
in Ghana (W. Ekau)

- Faust – geteilt durch zwei mal 57 / Die Norddeutsche, 4 Feb 2009
- Meeresforschung im Wandel / Weser Kurier, 7 Mar 2009
- Manchmal sehne ich mich nach dem offenen Meer / Nordsee-Zeitung, 15 Mar 2009
- „Ich wollte etwas bewegen“ – Forscher, Lehrer, Botschafter und Macher: Prof. Gotthilf Hempel feierte seinen 80. Geburtstag / Kieler Nachrichten, 8 Apr 2009
- Tangled Up in a Global Net / The Jakarta Post, 23 Apr 2009
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- Bremer legen Lehrbuch vor / Weser Kurier, 27 July 2009
- Ausstellung fragt: Muß Bremen umziehen? / Weser Kurier, 17 Aug 2009
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- Ökologische Folgen der Ölpest – Bedrohte Mangroven an der amerikanischen Südstaaten-Küste / Neue Zürcher Zeitung, 5 May 2010
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- Schnellwaschgang für den Golf von Mexiko / Die Welt, 8 Aug 2010
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- Auf den Spuren des Cholera-Erregers – Bremer Tropenforscher untersuchen in Asien, unter welchen Bedingungen das Bakterium besonders gut gedeiht / Weser Kurier, 12 Aug 2010
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- Viele Flüsse sind stark mit Schadstoffen belastet / Weser Kurier, 4 Oct 2010
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Rückkehr der Mangrovenwälder spart viel Geld / Der Standard (Österreich), 8 Nov 2010

Schatzkammer der Natur – Mangroven zählen zu den produktivsten Lebensräumen / Weser Kurier, 12 Nov 2010

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15 May 2009 – Bayern 2: IQ – Wissenschaft und Forschung, 6:05 pm, „Schutz für wertvolles Unterwassergebiet“ (Report about the “World Oceans Conference” in Manado / Indonesia, interview with Y. Sawall)

15 May 2009 – NDR Info: Mittagsecho, 1:05 pm (Report about the “World Oceans Conference” in Manado / Indonesia and the SPICE project, interview with T. Jennerjahn)

6 July 2009 – Center TV: Stadtgespräch, 7:00 pm, „Umweltveränderungen an Indonesiens Küste“ (Interview with T. Jennerjahn and S. Ferse about their research in the frame of the SPICE project), rebroadcast on 11 July at 5:00 pm, on 12 July at 7:00 pm

20 July 2009 – Radiobremen – Nordwestradio: Kultur-Journal, 6:08 pm, „Symposium zum Schutz der Galápagos-Inseln“ (Interview with M. Wolff about the Darwin-Symposium on the Galápagos Islands)

10 Aug 2009 – Radiobremen – Bremen Eins: Der Mittag, 1:40 pm (Interview with K. Diele about the Darwin-Symposium on the Galápagos Islands)

6 Sep 2009 – Deutsche Welle TV: Projekt Zukunft, „Kluge Köpfe: die Meeresbiologin Mirta Teichberg“ (Portrait of young researcher M. Teichberg, Jungwissenschaftlerin and her work at the ZMT)

7 Sep 2009 – WDR 5: Leonardo, 4:05 pm, (Report about research in the Spermonde Archipelago in the frame of the SPICE project)

9 Sep 2009 – Bayern 2: Radiomikro, 6:30 pm, „Das Leben auf der Cinta Laut“ (Interview with S. Ferse about work on a research vessel)

11 Oct 2009 – Bremen Vier: Zebra Vier forscht, 9:45 am (Interview with S. Ferse about his research on coral reefs)

25 Nov 2009 – Bayern 2: IQ – Wissenschaft und Forschung, 6:05 pm, „Korallen in Gefahr – Die Lebensgrundlage indonesischer Fischer“ (Feature about an expedition in Cluster 6 of the SPICE project, Interviews with S. Ferse and I. Radjawali)

11 Dec 2009 – MDR: LexiTV – Das Wissensmagazin, 2:30 pm, „Exoten unter Wasser – ein Tauchgang im Roten Meer“ (Report about the discovery of a new giant clam species), rerun 12.12. at 7:40

15 Mar 2010 – Bayern 2: radioWissen, 9:05 am, „Korallen in Gefahr- Warum Fischer in Indonesien ihre eigene Lebensgrundlage zerstören“ (Feature about an expedition in Cluster 6 of the SPICE project), rebroadcast on 15 Mar at 3:05 pm

3 May 2010 – WDR Radio: I Live, 10:00 am (Live interview with W. Ekau about the oil spill in the Gulf of Mexico)

3 May 2010 – Phoenix TV: Vor Ort, 1:15 pm (Live interview with W. Ekau about the oil spill in the Gulf of Mexico)

4 May 2010 – Schweizer Radio DRS3: Morgen-sendung, 7:20 am (Interview with W. Ekau about the oil spill in the Gulf of Mexico)

26 May 2010 – ZDF: Abenteuer Wissen, 10:15 pm, Bedrohte Unterwasserwelten (Report about the research on reef reconstruction of S. Ferse and Y. Sawall)

26 May 2010 – Phoenix: Der Tag, 11:00 pm (Interview with W. Ekau about the oil spill in the Gulf of Mexico)

5 June 2010 – ARTE TV, 10:15 am, „Mangroven – Bedrohte Küstenwälder in Brasilien“ (Report about the MADAM project)

15 June 2010 – Radiobremen TV / NDR: Ansichten, 6:45 pm, „Tiefer Blick ins Meer“ (Interview with S. Ferse about his research in coral reef ecology)

Radio/TV review

Public Relations

Radio/TV review

- 20 July 2010 – ZDF: Natürlich Steffens! 10:45 pm, „Der Regenwald der Ozeane“ (Interview with S. Ferse and Y. Sawall about endangered coral reefs and their work at ZMT)
- 2 Aug 2010 – Radiobremen: Nachrichten (News about the German-Chinese Summer School)
- 4 Aug 2010 - Nordwestradio: Kultur Journal, 6:08 pm (Interview with P.Westhaus-Ekau about the German-Chinese Summer School)
- 5 Aug 2010 – WDR 1LIVE (Interview with W. Ekau about the oil spill in the Gulf of Mexico)
- 6 Aug 2010 – Center TV: Weserzeit, 6:00 pm (Interview with P.Westhaus-Ekau about the German-Chinese Summer School)
- 11 Aug 2010 – Radiobremen TV / NDR: An-
sichten, 6:45 pm, „Tief im Meer – Meeresbiologin Yvonne Sawall zu Gast“ (Interview with Y. Sawall about her work on coral reef ecology)
- 7 Sep 2010 – ZDF: Mittagmagazin, 1:00 pm (Statement of S. Ferse about the dying corals in South East Asia)
- 7 Sep 2010 – ZDF: heute, 12:00 noon (Statement of S. Ferse about the dying corals in South East Asia)
- 29 Sep 2010 – SAT 1 Regional, 5:30 pm, „Korallen vom Aussterben bedroht“ (Report about S. Fereses work on coral reef ecology)
- 5 Nov 2010 – DRadio Wissen, „Zehn-Jahres-Projekt untersucht Funktion der Mangrovenwälder“ (News about the new book on the MADAM project)

Press releases Web news items

- Neues Lehrbuch zu aquatischen Ökosystemen der Tropen, 15 July 2009
- Darwin-Jahr 2009: Internationales Symposium auf den Galápagos Inseln, 17 July 2009
- Indonesische Gäste zur beruflichen Weiterbildung am ZMT, 21 Oct 2009
- Neues Zentrum für die Deutsch-Chinesische Kooperation in den Meereswissenschaften, 27 Jan 2010
- Indonesische Gäste zur beruflichen Weiterbildung am ZMT, 15 Feb 2010
- Besuch des chinesischen Botschafters am ZMT, 26 Feb 2010
- Dr. Agostino Merico appointed new Professor for Ecological Modelling, 11 Mar 2010
- Dr. Achim Schlüter übernimmt eine Professur für „Soziale Systeme und Ökologische Ökonomik“ am ZMT, 15 Apr 2010
- Ölkatastrophe im Golf von Mexiko: ein Interview, 5 May 2010
- Chairman of the Indonesian National Research Council at the ZMT, 16 June 2010
- Auf der Spur des Choleraerregers, 15 July 2010
- Deutsch-Chinesische Sommerschule am ZMT, 30 July 2010
- Meeresforschung im Land Bremen – eine Ausstellung, 24 Sep 2010
- PD Dr. Christian Wild übernimmt eine Professur für „Marine Ökologie/Riffökologie“ am ZMT, 27 Oct 2010
- Mangroven – Ödnis oder ökologisches Multitalent?, 4 Nov 2010
- Wechsel an der Spitze des Leibniz-Zentrums für Marine Tropenökologie, 2 Dec 2010

Information material

- SPICE II – Science for the Protection of Indonesian Coastal Marine Ecosystems (flyer, series “Projects”), 2009
- Three-Year Report (2006-2008), 2009
- ZMT flyer, ger. and eng. versions, 2010

- 18 Mar 2009, poster exhibition („Forschung für Nachhaltigkeit“) at a symposium of the parliamentary party CDU about research cooperation with developing countries
- 4 Apr 2009, talk by K. Schwerdtner-Máñez: „Segara Anakan – Das Kind des Meeres. Vom Verschwinden einer Lagune auf Java“, Wissen um 11, Haus der Wissenschaft, Bremen
- 23 Apr 2009, Girls' Day at the ZMT with a program about research on tropical marine organisms
- 11 May 2009, talk by M. Wolff: „Die Darwin Research Station auf den Galápagos Inseln. Forschung und Maßnahmen zum Schutz der einzigartigen Ökosysteme“, special event within the framework of Darwin Year, Übersee-Museum, Bremen
- 19 Aug – 20 Nov 2009, exhibition „Muß Bremen umziehen?“ at the Haus der Wissenschaft with an exhibit of the ZMT showing climate research on coral cores
- 14 Sep 2009, „Um Welt“, panel discussion in the frame of „Um Natur“, Schwankhalle, Bremen, participant: T. Jennerjahn
- 17 Sep 2009, „Zerstört Klimawandel Entwicklung?“, panel discussion in the frame of „Eine Welt – eine Zukunft“ in Berlin, participant: I. Radjawali
- 18 Sep 2009, visit of the 8th grade of the Kaiser-Friedrich Gymnasium in Bremen, guided tour through the ZMT
- 22 Apr 2010, Girls' Day at the ZMT with a workshop about tropical marine organisms
- 30 Apr – 1 Aug 2010, exhibition „Kalte Zeiten – Warme Zeiten“ about climate change at the Oldenburger Landesmuseum Natur und Mensch with an exhibit of the ZMT showing climate research on coral cores
- 25 Feb 2010, talk of S. Ferse: „Korallenriffe – bedrohte Wildnis tropischer Meere“, Internationales Maritimes Museum Hamburg, course of lectures „Ocean Talk“
- 27 June 2010, talk „Die indonesische See im Zeichen des globalen Wandels“ by T. Rixen, Indonesische Botschaft, Berlin
- 2-3 Oct 2010, exhibition „Meeresforschung im Land Bremen“ within the framework of the „Tag der Deutschen Einheit“ in Bremen, Überseestadt, together with other marine research institutions
- 8 Dec 2010, talk „Was geht es uns an, ob ein Korallenriff funktioniert und wie?“ Christian Wild, Paleontology Museum Munich

Public awareness events

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Sawall, Yvonne
Schlüter, Prof. Dr. Achim
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<p>BMBF-Review Panel on “Integrated Management of German Coasts” (V. Ittekkot)</p> <p>Deutsche Sektion der Intergovernmental Oceanographic Commission (IOC) (T. Jennerjahn)</p> <p>German Delegation to UNESCO-IOC (Capacity Building) (V. Ittekkot)</p> <p>ICES-Working Group on Marine Shellfish Cultivation (WGMASC) (G. Krause)</p> <p>ICSU (International Council for Science) – SCOR (Scientific Committee on Ocean Research) Capacity Building (V. Ittekkot, Chair; W. Ekau)</p>	<p>ICSU-SCOPE (Scientific Committee on Problems of the Environment) Germany (V. Ittekkot, Chair)</p> <p>International Hydrological Programme (IHP), UNESCO, Ecohydrology Working Group, (R. Lara)</p> <p>Scientific Steering Committee of the Land-Ocean Interaction in the Coastal Zone (LOICZ) Programme (IGBP-IHDP) (M. Glaser)</p> <p>SCOR Executive Committee (V. Ittekkot)</p> <p>SCOR Working Group 128 Hypoxia (V. Ittekkot, W. Ekau)</p>	<p>• Representations in committees</p>
<p>Amazoniana (U. Saint-Paul)</p> <p>Archaeopteryx (H. Westphal)</p> <p>Ecotropica – An International Journal of Tropical Ecology (U. Saint-Paul)</p> <p>Journal of Applied Ichthyology (U. Saint-Paul, U. Krumme)</p> <p>Journal of Aquaculture in the Tropics (U. Saint-Paul)</p>	<p>Journal for Marine and Petroleum Geology (H. Westphal)</p> <p>Panamerican Journal for Aquatic Science (Permanent Advisory Committee, K. Diele)</p> <p>Studies on Neotropical Fauna and Environment (R. Lara)</p> <p>Wetlands Ecology and Management (R. Lara)</p>	<p>• Memberships in editorial boards</p>
<p>German Society for Marine Research (DGM), Vice-President (W. Ekau)</p> <p>Gesellschaft für Marine Aquakultur mbH (GMA), Büsum, Council Member (A. Kunzmann)</p> <p>Geologische Vereinigung, Board Member (H. Westphal)</p> <p>International Association of Sedimentologists, Council Member (H. Westphal)</p>	<p>IOI, Chair of Committee of Directors (W. Ekau)</p> <p>IOI, Director of the Operational Centre Germany (W. Ekau)</p> <p>IOI, Member of the Governing Board (W. Ekau)</p>	<p>• Memberships in executive boards</p>

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List of Acronyms

ABEQUA	Associação Brasileira de Estudos do Quaternário (Brazil)	BFAFi	Energie und Ökologie Bundesforschungsanstalt für Fischerei (Hamburg, Rostock)
ABF	Angola Benguela Front	BGR	Bundesanstalt für Geowissenschaften und Rohstoffe (Hannover)
ACEMON	Managing Aquatic Coastal Ecosystems of Monsoon Asia	BHU	Bng Hatta University (Padang, Indonesia)
ACQUIN	Akkreditierungs-, Zertifizierungs- und Qualitätssicherungs-Institut e.V	BIA	Bremer Innovations-Agentur
AGEP	Arbeitsgemeinschaft entwicklungs-länderbezogener Postgraduierten-Programme	BIG	Bremer Investitionsgesellschaft
AGU	American Geophysical Union	BITZ	Bremer Innovations- und Technologiezentrum
AIF	Arbeitsgemeinschaft Industrieller Forschung	BIOACID	Biological Impact of Ocean Acidification
AIMS	Australian Institute of Marine Science	BIOLOG	Biodiversität und Globaler Wandel
ALFA-COSTA	América Latina Formación Académica – Coastal Sustainable Management of Tropical America	BIOME	Global Biome Mapping Project
A&M	Agricultural and Mechanical	BIOTA	Biodiversity Monitoring Transect Analysis in Africa
AMB	Arbeitsgemeinschaft Meereskundlicher Bibliotheken	BIS	Bremerhavener Investitions- und Stadtentwicklungsgesellschaft
ARTEC	Das Forschungszentrum Zentrum und Technik (Bremen)	BLE	Bundesanstalt für Landwirtschaft und Ernährung
ASEAMS	Association of Southeast Asian Marine Scientists	BMBF	Bundesministerium für Bildung und Forschung
ASEAN	Association of South-East Asian Nations	BMVEL	Bundesministerium für Verbraucherschutz, Ernährung und Landwirtschaft
ASLO	American Society for Limnology and Oceanography	BMWA	Bundesministerium für Wirtschaft und Arbeit
ATBC	Association for the Tropical Biology and Conservation	BMWI	Bundesministerium für Wirtschaft und Technologie
ATSAF	Arbeitsgemeinschaft Tropische und Subtropische Agrarforschung e.V. (now BEAF: Beratungsgruppe Entwicklungsorientierte Agrarforschung)	BMZ	Bundesministerium für Wirtschaftliche Zusammenarbeit und Entwicklung
ATSEF	Arafura and Timor Seas Expert Forum	BPPT	Agency for the Assessment and Application of Technology (Indonesia)
AU	Anna University Chennai (India)	BRAMS	Brantas-Madura-Strait Biogeochemistry
AWI	Alfred-Wegener-Institut für Polar- und Meeresforschung (Bremerhaven, Potsdam, Sylt und Helgoland)	B.Sc.	Bachelor of Science
BAH	Biologische Anstalt Helgoland	BSH	Bundesamt für Seeschifffahrt und Hydrographie (Hamburg, Rostock)
BBN	Bremen Business Net	Can Gio	Ecosystem functioning of rehabilitated versus natural mangroves in the Can Gio Reserve, (Vietnam – Can Gio-Projekt)
BCGC, BENEFIT	Committee for German Cooperation	CAPES	Coordenação de Aperfeiçoamento de Pessoal de Nível Superior, Ministério da Educação (Brazil)
BCC	Benguela Current Commission	CARMABI	Caribbean Research and Management of Biodiversity (Curaçao, Netherlands Antilles)
BEAF	Beratungsgruppe Entwicklungsorientierte Agrarforschung	CATIE	Center for Tropical Agronomy Research and Teaching (Costa Rica)
BEG	Bremer ExistenzGründungsinitiative	CAU	Christian-Albrechts-Universität Kiel
BENEFIT	Benguela Environment Fisheries Interaction & Training Programme		
BEO	Projekträger des BMBF, Biologie,		

List of Acronyms

CCM	Center for Coastal Management (Newcastle)	DAAD	Deutscher Akademischer Austauschdienst
CCMAR	Algarve Marine Sciences Centre (Faro, Portugal)	DATZ	Deutsche Aquarien- und Terrarien Zeitung
CCMRS	Centre for Coastal and Marine Resources Studies (Indonesia)	DBU	Deutsche Bundesstiftung Umwelt
CCRF	Code of Conduct for Responsible Fisheries	DDP	Deutscher Depeschendienst
CCRR	Center for Coral Reef Research (Indonesia)	DDR	Deutsche Demokratische Republik
CDG	Carl-Duisberg-Gesellschaft	DED	Deutscher Entwicklungshilfedienst
CEMarin	Center of Excellence in Marine Sciences	DEKLIM	Deutsches Klimaforschungsprogramm
cenTER	Centre for Tropical Ecosystems Research (Aarhus, Denmark)	DEKLIMC	Deutsches Klimaforschungsprogramm, Teil C
CENSOR	Climate variability and El Niño Southern Oscillation: Implications for natural coastal Resources and management	DFG	Deutsche Forschungsgemeinschaft
CeSIA	Leibniz Center for Sustainability Impact Assessment	DFN	Deutsches Forschungsnetz
CESS	Centre for Earth Science Studies (India)	DFOR	Deutsches Forum für Entwicklungsorientierte Forschung
CGK	Cordes-Graefe-Kluncker (Bremen)	DG	Directorate-General of the European Commission
CGRFA	Commission on Genetic Resources for Food and Agriculture	DGH	Deutsche Gesellschaft für Humanökologie
CHM	Clearing House Mechanism (Canada)	DGM	Deutsche Gesellschaft für Meeresforschung
CIBNOR	Centro de Investigaciones Biológicas del Noroeste (Mexico)	DIVERSITAS	An International Programme of Biodiversity Science
CICESE	Centro de Investigación Científica y de Educación Superior de Ensenada (CICESE) (Baja California)	DKP	Ministry of Marine Affairs and Fisheries (Indonesia)
CIAD	Centro De Investigación En Alimentación Y Desarrollo (Mexico)	DLR	Deutsches Zentrum für Luft- und Raumfahrt e.V.
CIM	Centro de Investigaciones Marinas (Cuba)	DRN	Indonesian National Research Council
CIMAR	Centro de Investigacion en Ciencias del Mar y Limnologia (Costa Rica)	DSE	Deutsche Stiftung für internationale Entwicklung
CIP	Centro des Investigaciones Pesqueras (Cuba)	DSS	Decision Support System
CIS	Crab Information System	DTU	Technical University of Denmark
CITMA	Ministerio de Ciencias, Tecnología y medio Ambiente (Cuba)	DWK	Deutsche Wissenschaftliche Kommission für Meeresforschung
CMTT	Continental Margin Task Team	DZG	Deutsche Zoologische Gesellschaft
CNPq	Conselho Nacional de Desenvolvimento Científica e Tecnológico (Brazil)	EAOG	European Association of Organic Geochemists
CNPS	Carbon Nitrogen Phosphorus Sulfur	EAS	European Aquaculture Society
CoF	College of Fisheries (India)	ECNU	East China Normal University
Corelab	Coastal Research Laboratory (Kiel)	ECOMARES	Ecological Marine Recirculation Systems
CSA	Cambridge Scientific Abstracts	ECOSUR	El Colegio de la Frontera Sur (Mexico)
CZM-C	Coastal Zone Management Centre (Den Haag)	EDFAM	European Decapod Fisheries: Assessment and Management
		EDV	Elektronische Datenverarbeitung
		EEAA	Egyptian Environmental Affairs Agency (Egypt)
		EFMS	European Federation of Marine Science and Technology Societies
		EIOT	Equatorial Indian Ocean Trapp
		ENAAM	Encontro Nacional de Educacao

List of Acronyms

	Ambiental em Áreas Manguezais (Brasil)	GfÖ	Gesellschaft für Ökologie
ENSO	El Niño-Southern Oscillation	GFZ	GeoForschungsZentrum (Potsdam)
EPOCA	European Project on Ocean Acidification Consortium	GIACT	Gestion Integrada de Areas Costeras Tropicales
EPD	European Pollen Database	GIGA	Leibniz-Institut für globale und regionale Studien
ESA	Ecological Society of America	GIS	Geographisches Informationssystem
ESEE	European Society for Ecological Economics	GITEWS	German-Indonesian Tsunami Early Warning System
ESRC	Economic and Social Research Council	GIWA	Global International Waters Assessment
ETFERN	European Tropical Forest Research Network	GIZ	Deutsche Gesellschaft für Internationale Zusammenarbeit
ETM	Enhanced Thematic Mapper	GLOMAR	Global Change in the Marine Realm
EU	European Union	GKSS	Gesellschaft für Kernenergieverwertung in Schiffbau und Schifffahrt mbH (Geesthacht)
FAO	Food and Agriculture Organisation of the United Nations	GMA	Global Marine Assessment
FB	Fachbereich	GMA	Gesellschaft für Marine Aquakultur mbH, Büsum
FB-Rat	Fachbereichsrat	GMRC	Guangxi Mangrove Research Centre (Beihai, P.R. China)
FCCC	Framework Convention on Climate Change	GTÖ	Gesellschaft für Tropenökologie
FHB	Freie Hansestadt Bremen	HdW	Haus der Wissenschaften (Bremen)
FIAS	Flow Injection Analysis System	HfK	Hochschule für Künste (Bremen)
FIEMA	Feira Internacional de Tecnologia para o Meio (Brasil)	HHUD	Heinrich-Heine-Universität Düsseldorf
FIP	Forschungs- und Infrastrukturplan der FHB	HPLC	High Performance Liquid Chromatography
FON	Field of Neighbourhood	HTML	Hypertext Markup Language
FONA	Forschung für Nachhaltigkeit	HWK	Hanse-Wissenschaftskolleg Delmenhorst
FORCE	Future of Coral Reefs in a Changing Environment	IACRS	Indonesian Association for Coral Reef Studies
FRS	Fisheries Research Ship	IADO	Instituto Argentino de Oceanografía
FS	Forschungsschiff	IAMRI	International Association of Marine-related Institutions
FTZ	Forschungs- und Technologiezentrum Westküste der Christian-Albrechts-Universität zu Kiel	IAMSLIC	International Association of Aquatic and Marine Science Libraries and Information Centers
FUB	Freie Universität Berlin	IAS	International Association of Sedimentologists
FUNTEC	Fundação de Tecnologia Florestal e Geoprocessamento (Brasil)	IB	Internationales Büro des BMBF
GAIA	Ecological Perspectives for Science and Society	IBAU	Ingenieurbüro für Aquakultur und Umwelttechnik (Beelitz-Elsholz)
GAMSLIC/AMB	German Association of Marine Science Libraries and Information Centers	IC	Ionenchromatographie
GATE	Guide to Academic Training and Education	ICBM	Institut für Chemie und Biology des Meeres (Oldenburg)
GBV	Gemeinsamer Bibliotheksverbund	ICDDR,B	International Centre for Diarrhoeal Disease Research (Bangladesh)
GENUS	Geochemistry and Ecology of the Namibia Upwelling System	ICES	International Council for the Exploration of the Sea
GEO	Geowissenschaften der Universität Bremen	ICOPA	International Congress of Parasitology
GESAMP	Joint Group of Experts on the Scientific Aspects of Marine Environmental Protection		

List of Acronyms

ICP-OES	Induktiv gekoppeltes Plasma (Inductively-Coupled-Plasma) mit optischer-Emissionen-Spektrometrie	INQUA	International Union for Quaternary Research
ICRI	International Coral Reef Initiative	INSMET	Instituto de Meteorología Ministerio de Ciencia Tecnología y Medio Ambiente de la República de Cuba (Cuba)
ICSU	International Council for Science	INVEMAR	Instituto de Investigaciones Marinas y Costeras (Colombia)
ICZM	Integrated Coastal Zone Management	InWent	Internationale Weiterbildung und Entwicklung gemeinnützige GmbH
IdO	Instituto de Oceanología (Cuba)	IOC	Intergovernmental Oceanographic Commission
IDW	Informationsdienst Wissenschaft	IOI	International Ocean Institute (Malta)
IECA	Instituto de Ecología y Ciencias Ambientales	IOM	Institute for Ocean Management (India)
IEE	Institute for Ecological Economics (University of Maryland, USA)	IOW	Institut für Ostseeforschung (Warnemünde)
IfBM	Institut für Biogeochemie und Meereschemie der University of Hamburg	IPCC	Intergovernmental Panel on Climate Change
IfM	Institut für Meereskunde (Kiel)	IPB	Fisheries Faculty of Bogor University (Indonesia)
IfM-GEOMAR	Leibniz-Institut für Meereswissenschaften an der Universität Kiel	IPN	Leibniz-Institut für die Pädagogik der Naturwissenschaften und Mathematik
IGBP	International Geosphere-Biosphere Programme	IPÖ	Institut für Polarökologie
IGV	Institut für Getreideverarbeitung GmbH (Bergholz-Rehbrücke)	ISA	International Sociological Association
IHDP	International Human Dimensions Programme on Global Environmental Change	ISATEC	International Studies in Aquatic Tropical Ecology
IHF	Institut für Hydrobiologie und Fischereiwissenschaft der University of Hamburg	ISC	International Sedimentological Congress
IHP	International Hydrological Programme	ISEE	International Society for Ecological Economics
IKT	Informations- und Kommunikationstechnologie	ISME	International Society for Mangrove Ecosystems
ILAR	Improved Larval Rearing	ISRS	International Society for Reef Studies
IMARPE	Instituto del Mar del Peru (Peru)	IST	Institute of Technology (Surabaya)
IMBER	Integrated Marine Biogeochemistry and Ecosystem Research	ITB	Bogor Agricultural University (Indonesia)
IMOG	International Meeting on Organic Geochemistry	ITLOS	International Tribunal for the Law of the Sea
IMR	Institute of Marine Research (Norway)	IUCN	International Union for Conservation of Nature
IMS	Institute of Marine Sciences (Tanzania)	IUI	Inter-University Institute of the Hebrew University Jerusalem (Eilat, Israel)
INASEA	Institut für nachhaltige Aktivitäten auf See (Cuxhaven)	IUIC	Instituto de Investigaciones Científicas (Venezuela)
INCO	Iranian National Center for Oceanography (Iran)	JAMSTEC	Japan Agency for Marine-Earth Science and Technology (Japan)
INCO-DEV	International Cooperation in the Field of Research and Technological Development	JGOFS	Joint Global Ocean Flux Study
INIDEP	Instituto Nacional de Investigación y Desarrollo Pesquero (Argentina)	JIGIE	Joint Indonesian German Indian Ocean Expedition
InnoWi	Innovation für die Wirtschaft		
INPA	Instituto Nacional de Pesquisas da Amazônia (Brazil)		

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JIGSE	Joint Indonesian-German Sunda Expedition	MFRI	Marine and Fisheries Research Institute (Kenya)
JOPS I/II	Joint Oceanographic Projects I/II	MNU	Mathematisch und Naturwissenschaftlicher Unterricht
KAUST	King Abdullah University of Science & Technology (Saudi Arabia)	MoU	Memorandum of Understanding
KDM	Konsortium Deutsche Meeresforschung	MOSTE	Ministry of Science, Technology and Environment (Vietnam)
KfW	Kreditanstalt für Wiederaufbau (Frankfurt)	MoRST	Ministry of Research, Science and Technology (Neuseeland)
KITLV	Koninklijk Instituut voor Taal-, Land- en Volkenkunde – Royal Netherlands Institute of South-east Asian and Caribbean Studies (Leiden)	MOST	Ministry of Science and Technology (Vietnam)
KiWi	Mangroven-Waldmodell	MPA	Marine Protected Areas
KKP	Research Center for Marine and Fisheries Product Processing and Biotechnology, Indonesian Ministry for Marine Affairs and Fisheries (Jakarta, Indonesia)	MPEG	Museu Paraense Emilio Goeldi (Brazil)
KLMM	Konferenz leitender Meeresforscher Norddeutschlands	MPI	Max-Planck-Institut
KMFRI	Kenya Marine & Fisheries Research Institute (Kenya)	MPIBC	Max-Planck-Institut für biophysikalische Chemie (Göttingen)
KÖM	Küste, Ökologie und Mensch	MPIEM	Max-Planck-Institut für experimentelle Medizin (Göttingen)
KRT	The Ministry of Research & Technology (Indonesia)	MPIMM	Max-Planck-Institut für marine Mikrobiologie (Bremen)
LAPAN	National Aeronautics & Space Institute (Indonesia)	MRC	Mekong River Commission
LAPD	Latin American Pollen Database	MRE	Ministério das Relações Exteriores (Brazil)
LIPI	Indonesian Institute of Sciences (Indonesia)	M.Sc.	Master of Science
LME	Large Marine Ecosystem	MSS	Marine Science Station, Aqaba (Jordan)
LOI	Letter of Intent	NAM S&T	Centre, Non-aligned movement and Developing Countries Science and Technology Centre (India)
LOICZ	Land-Ocean Interactions in the Coastal Zone	NARA	National Aquatic Resources Research and Development Agency (Sri Lanka)
LPS	Landesamt für Personendosimetrie und Strahlenschutz Ausbildung	NatMIRC	National Marine Information and Research Centre (Namibia)
MADAM	Mangrove Dynamics and Management	NEBROC	Netherlands Bremen Oceanography
MAIS	Mangroven-Informationssystem	NFA	National Fisheries Authority (Papua New Guinea)
MARCUBA	Congress on Marine Science in Cuba	NGO	Non-Governmental Organisation
MARIANDA	Marine Analytics and Data (Kiel)	NHI	Neue Hanse Interregio – Nieuwe Hanze Interregio
MarMic	International Max Planck Research School of Marine Microbiology (Bremen)	NICED	National Institute for Cholera and Enteric Diseases (India)
MARUM	Zentrum für Marine Umweltwissenschaften (Bremen)	NIO	National Institute of Oceanography (Goa, India)
MCT	Ministério da Ciência e Tecnologia (Brazil)	NIOF	National Institute of Oceanography and Fisheries (Egypt)
MCM	Marine and Coastal Management (South Africa)	NIOZ	Nederlands Instituut voor Onderzoek der Zee (Texel)
MdB	Mitglied des Deutschen Bundestages	NLU	Institut für Natur-, Landschafts- und Umweltschutz
		NOAA	National Oceanic and Atmospheric Administration
		NRC	National Research Center (Egypt)

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NRCT	National Research Council of Thailand	PMBC	Phuket Marine Biological Center (Thailand)
NTAFS	Network of Tropical Aquaculture and Fisheries Scientists, ICLARM (Malaysia)	PNG	Papua Neuguinea
NUMA	Núcleo do Meio Ambiente (Brazil)	POLYPLAN	Ingenieurbüro für Energie- und Umwelttechnik GmbH (Bremen)
NUPAUB-USP	Núcleo de Apoio à Pesquisa Sobre Populações Humanas em Áreas Úmidas Brasileiras da Universidade de São Paulo (Brazil)	PPGCIEN	Programa de Pós-Graduação em Ciências: Ênfase em Desenvolvimento Sustentável (Brazil)
NWO	Nederlandse Organisatie voor Wetenschappelijk Onderzoek	PPTK	Center for Coral Reef an der Hasanuddin Universität (UNHAS) (Indonesia)
OECD	Organization for Economic Cooperation and Development	Pro Inno II	Programm zur Förderung der Erhöhung der Innovationskompetenz mittelständischer Unternehmen
OPAC	Online Public Access Catalogue	PRORENDA	Programma de Renda Familiar (Brazil)
ORCAS	Ocean Reef Coupling in the Andaman Sea	ProSys	Gesellschaft für produktionsorientierte Umweltsystemtechnologien und -management mbH
OUC	Ocean University of China (P.R. China)	PSC	Phillips Seafood Company (Indonesia)
PACKMEDS	Dynamics of semi-enclosed marine systems: the integrated effects of changes in sediment and nutrient input from land	PT	Projektträger
PACON	Pacific Congress on Marine Science and Technology	PTJ	Project executing organization Jülich – Forschungszentrum Jülich
PAGES	Past Global Environmental Changes (IGBP)	PUSH	Public Understanding of Science and Humanities
PAHs	Polyaromatic Hydrocarbons	RC	Research cutter
PAKT	Leibniz-Vorhaben im wettbewerblichen Verfahren (SAW-Verfahren) im Rahmes des Paktes für Forschung und Innovation	RMD	Resource and Development Division (Philippines)
PANGAEA	Paleo-Network for Geological and Environmental Data	RISTEK	Ministry of Science and Technology (Indonesia)
PASARELA	Discovery Modelling Mediation Deliberation: Interface Tools for Multi-stakeholder Knowledge Partnerships for the Sustainable Management of Marine Resources and Coastal Zones	ROSTE	Regional Office for Science and Technology (Europe)
PCAMRD	Philippine Council for Aquatic and Marine Research and Development (Philippines)	ROSTLAC	Regional Office for Science and Technology (Latin America and the Caribbean)
PCG	Palestine Consultancy Group (Jerusalem)	RSMAS	Rosenstiel School of Marine and Atmospheric Science (USA)
PD/A	Programas Demonstrativas, tipo A (Brazil)	RSP	Red Sea Program on Marine Sciences
PEP	Postgraduate Programme in Environmental Physics (Bremen)	RV	Research Vessel
PFAU	Programm zur Förderung für angewandte Umweltforschung	SADC	South African Development Countries
Ph.D.	Doctor of Philosophy	SAMSS	South African Marine Sciences Symposium
PIK	Potsdam Institut für Klimafolgenforschung	SBBT	Southern Bay of Bengal Trap
		SES	Social-ecological systems
		SKLEC-ECNU	State Key Laboratory of Estuarine and Coastal Research – East China Normal University (P.R. China)
		SCOPE	Scientific Committee on Problems of the Environment

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SCOR	Scientific Committee on Oceanic Research	UAB	Universitat Autònoma de Barcelona
SEACORM	Southeast Asia Centre for Ocean Research and Monitoring	UAEU	United Arab Emirates University
SECTAM	Secretaria do Meio Ambiente - environmental ministry of the state of Pará (Brazil)	UBH	Universitas Bung Hatta (Indonesia)
SECYT	Secretaria de Ciencia y Tecnica (Argentina)	UCC	University of Cape Coast (Ghana)
SEQUA	Stiftung für wirtschaftliche Entwicklung und berufliche Qualifizierung	UCR	Universidad de Costa Rica
SFAS	Segmented Flow Analysing System	UENF	Universidade Estadual do Norte Fluminense (Campos dos Goytacazes, Brazil)
SFB	Sonderforschungsbereich	UFAL	Universidade Federal de Alagoas (Maceió, Brazil)
SHIFT	Studies on Human Impact on Forests and Floodplains in the Tropics	UFCE	Universidade Federal do Ceará (Fortaleza, Brazil)
SICSS	Shanghai International Conference on Social Science	UFF	Universidade Federal Fluminense (Niterói, Brazil)
SIOSEA	Second Institute of Oceanography (SIO) under the State Oceanic Administration (SOA) (P.R. China)	UFPa	Universidade Federal da Pará (Belém, Brazil)
Sim-Coas	Coastal Management Expert System (computational model)	UFPe	Universidade Federal de Pernambuco (Recife, Brazil)
SIRRO	Siberian River Runoff	UFPR	Universidade Federal do Paraná (Curitiba, Brazil)
SKLEC	State Key Laboratory of Estuarine and Coastal Research (Shanghai, P.R. China)	UFRPe	Universidade Federal Rural de Pernambuco (Recife, Brazil)
SKLEC-ECNU	State Key Laboratory of Estuarine and Coastal Research (SKLEC), at the East China Normal University (ECNU) (Shanghai, P.R. China)	UFS	Universidade Federal de Sergipe (Brazil)
SOA	State Oceanic Administration	UFT	Zentrum für Umweltforschung und Umwelttechnologie (Bremen)
SOLAS	Surface Ocean Lower Atmosphere Study	UFZ	Umweltforschungszentrum Leipzig-Halle GmbH
SP	Sonderstipendienprogramm	UI	University of Indonesia (Indonesia)
SPACES	Science Partnership for the Assessment of Complex Earth System Processes	UKOARP	UK Ocean Acidification Research Programme
SPICE	Science for the Protection of the Indonesian Coastal Ecosystems	ULBRA	Universidade Luterana do Brasil (Brazil)
SSC	Scientific Steering Committee	UN	United Nations
SUCOZOMA	Sustainable Coastal Zone Management (Sweden)	UNA	Universidad Nacional de Costa Rica (Costa Rica)
SUSANET	Sustainable Aquaculture Network	UNALM	Universidad Nacional Agraria La Molina (Costa Rica)
TeLa GmbH	Technische Lebensmittel und Umweltanalytik	UNAM	University of Namibia
TEMA	Training, Education and Mutual Assistance	UNAN-León	Universidad Nacional Autónoma de Nicaragua-León (Nicaragua)
TROPICOAST	Datenbank für tropische Küstenforschung	UNCBD	United Nations Convention on Biodiversity
TUVA	United Lands of Neighbours for the Environment (Costa Rica)	UNCED	United Nations Conference on Environment and Development
TZ	Technische Zusammenarbeit	UNCLOS	United Nations Convention on the Law of the Sea
TTZ	Technologie-Transfer-Zentrale	UNDIP	University of Diponegoro (Indonesia)
		UNEP	United Nations Environmental Programme
		UNEP-GPA	Global Programme of Action for the Protection of the Marine Environment from Land-based Activities

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UNESCO	United Nations Educational, Scientific and Cultural Organization		Landnutzungsforschung (Müncheberg)
UNHAS	University of Hasanuddin (Indonesia)	ZARM	Zentrum für angewandte Raumfahrttechnik und Mikrogravitation
UnivB	Universität Bremen	ZEW	Zentrum für Europäische Wirtschaftsforschung (Mannheim)
UNMdP	Universidad Nacional de Mar del Plata (Argentina)	ZMAW	Zentrum für Marine und Atmosphärische Wissenschaften (Hamburg)
UNRI	University of Riau (Indonesia)		
UNS	Universidad Nacional del Sur (Argentina)	ZMK	Zentrum für Meeres- und Klimaforschung (Hamburg)
UNSOED	Universitas Jenderal Soedirman (Indonesia)	ZMT	Leibniz-Zentrum für Marine Tropenökologie GmbH (Leibniz Center for Tropical Marine Ecology)
UNSRAT	Sam Ratulangi Universität in Manado (Indonesia)		
UNSW	University of New South Wales (Australia)	ZWE	Zentrale Wissenschaftliche Einrichtung (Bremen)
UOF	Union des Océanographes de France		
UP-MSI	University of the Philippines, Marine Science Institute		
URGS	Universidade Federal Rio Grande do Sul (Brazil)		
USFQ	University San Francisco de Quito (Ecuador)		
USP	Universidade de Sao Paulo (Brazil)		
VAST	Vietnamese Academy of Science and Technology		
vdbiol	Verband Deutscher Biologen und biowissenschaftlicher Fachgesellschaften e.V.		
VDI	Verein Deutscher Ingenieure		
VIMS	Virginia Institute of Marine Science		
WAMER	West African Marine Eco Region		
WAST	Western Arabian Sea Trap		
WBGU	Wissenschaftlicher Beirat der Bundesregierung Globale Umweltveränderungen		
WDC-Mare	World Ocean Data Center		
WFB	Wirtschaftsförderung (Bremen)		
WGL	Wissenschaftsgemeinschaft Gottfried Wilhelm Leibniz		
WOC	World Ocean Conference		
WOCE	World Ocean Circulation Experiment		
WOTRO	Netherlands Foundation for the Advancement of Tropical Research		
WTZ	Wissenschaftlich-Technische Zusammenarbeit		
WWF	World Wildlife Fund		
WZB	Wissenschaftszentrum Berlin		
YoMo	Young Modellers		
ZAIT	Zentrum für Angewandte Informationstechnik		
ZALF	Zentrum für Agrarlandschafts- und		

