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 Geoeosystems”.

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.
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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).

**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, available 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.
LANCET

Land-Sea Interactions along Coastal Ecosystems of Tropical China: Hainan

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 (δ18O und δ13C) 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 δ18O. 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.
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 chitinaceous micro-detritus rather than zooplankton is the main V. cholerae reservoir, and whether higher contents of chitin, salts, 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.

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 contributes 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.
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.

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 northwestern 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.
**Breeding and Rearing of Ornamental Organisms under Controlled Conditions**

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.

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**High-PUFA Algae**

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.

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Capacity Building and Cooperation

**Capacity Building**
- Sino-German Initiative on Marine Sciences
- Capacity Building Support in Fisheries
- Sandwich Programme with the Indonesian Bogor Agricultural University

**Transfer**
- Mangrove Rehabilitation in the Gulf of Kutch, Gujarat, India

**Cooperation with International Organisations and Programmes**
- 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 semester 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 128). 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 1 (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.
Laboratories

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. 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 socioeconomic 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.

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 expand 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.
Appendix

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Appendix

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Publications

Articles in peer-reviewed journals


Fox, S. E., **Teichberg, M., Olsen, Y. S., Heffner, L., Valiela, I.** (2009) Restructuring of benthic communities in eutrophic
estuaries: lower abundance of prey leads to trophic shifts from omnivory to grazing. Marine Ecology Progress Series, 380, pp. 43-57, DOI 10.3354/meps07917.


Publications


Articles in books and series


Articles in books and series


Publications


Publications


Baum, A.
The role of oxygen for ecosystem functioning.
World Ocean Conference 2009, “Climate change impacts to oceans and the role of oceans to climate change”, Manado, Indonesia, 13 May 2009

Bischof, K.
Succession patterns of turf algal communities in a Caribbean coral reef.
Botanists’ meeting, Leipzig, 6-10 Sep 2009
Physiological responses of tropical reef macroalgae to nutrient enrichment along a reef slope.
Botanists’ meeting, Leipzig, 6-10 Sep 2009
Feeding status of scleractinian corals may alleviate thermal stress on photosynthesis of symbiotic zooxanthellae.
Botanists’ meeting, Leipzig, 6-10 Sep 2009
Antioxidative strategies of the intertidal green macroalga Ulva prolifera L. to different UV-B irradiances.
Botanists’ meeting, Leipzig, 6-10 Sep 2009

Borell, E.
Eat well and be healthy – coral feeding and thermal resistance of the scleractinian symbiosis.
3rd Public Core Mini-Symposium on Ecological and Biogeochemical Coral Reef Research, Munich, 4 May 2009
Feeding status of scleractinian corals may alleviate thermal stress on photosynthesis of symbiotic zooxanthellae.
Botanists’ meeting, Leipzig, 6-10 Sep 2009

Deswandi, R.
On the co-evolution of institutions: understanding institutions’ emergence, persistence, and change in Spermonde archipelago.

Diele, K.
Effects of industrial pollution on benthic organisms and biodiversity in tropical estuaries.
Leibniz Association, Berlin, 7 Oct 2010

Dsikowitzky, L.
Overview of the Chinese-German collaboration project LANCET. 2nd LANCET workshop, Haikou, Hainan, P.R. China, 6 Mar 2010
Auswirkungen industrieller Schadstoffe auf benthische Organismen und Biodiversität tropischer Ästuare. Presentation of SAW development plan, Leibniz Association, Berlin, 7 Oct 2010

Ekau, W.
A change in larval fish community of the Northern Benguela induced by the extension of the oxygen minimum layer.
Meeting of American Society of Ichthyologists & Herpetologists, Portland, Oregon, 26 July 2009
Capacity building in ocean governance and marine resource management – a never-ending task. 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, 28 Apr 2010
Capacity building in ocean governance and marine resource management – a never-ending task. 12th IOC/UNESCO-IUCN-NOAA, Consultative Meeting on Large Marine Ecosystems (LMEs), Paris, 8 July 2010
Outlook on GENUS II. Benguela Current Commission Meeting, Swakopmund, Namibia, 13 Oct 2010

Ferse, S.
Linking people and coral reefs – how realistic are sustainable alternatives?
3rd Public Core Mini-Symposium on Ecological and Biogeochemical Coral Reef Research, Munich, 4 May 2009
Multivariate similarity of fish communities – a potential indicator of reef recovery?
PhD and Post-Doc Minisymposium on Coral Reefs, Leibniz Center for Tropical Marine Ecology, Bremen, Germany, 14-15 Sept 2009
Coral reef restoration – background and approaches (invited talk).
Training workshop on coral transplantation, North Sulawesi Fisheries Department (DKP SulUt), Manado, Indonesia, 13 Nov 2009
Coastal management in Indonesia – some issues and challenges.
IPB, Bogor, Indonesia, 8 Jan 2010
Analysis of coastal social-ecological systems in the frame of the SPICE program (invited

Untying the Gordian Knot? Challenges and approaches in marine coastal resource management and research in Indonesia (invited talk). Keynote at Young marine research: Diversity and similarities. 1. German Young Marine Scientist Meeting, ZMAW Hamburg, Germany, 12 June 2010

On reef exploration and livelihoods. SPICE cluster 6 final workshop “People, reefs and fish in Spermonde Archipelago, South Sulawesi”, Hasanuddin University, Makassar, Indonesia, 24 Nov 2010

Ferse, S., Glaser, M., Radjawali, I., Glaeser, B.

Ferse, S., Knittweis, L., Maddusila, A., Krause, G., Glaser, M.

Ferse, S., Maddusila, A., Husain, S., Glaser, M.

Ferse, S., Schwerdtner Máñez, K., Kunzmann, A.
Gems of the sea – assessing the economic potential of ornamental coral reef fishes. 11th annual meeting of the International Society for Ecological Economics (ISEE), University of Oldenburg, 24 Aug 2010

Baitoningsih, W., Ferse, S., Glaser, M., Neil, M., Deswandri, R.

Flitner, M.
Social-ecological research and nodal governance. World Ocean Conference 2009, “Climate change impacts to oceans and the role of oceans to climate change”, Manado, Indonesia, 13 May 2009

Fredersdorf, J.
Antioxidative strategies of the intertidal green macroalga Ulva prolifera L. to different UV-B irradiances. Botanists’ meeting, Leipzig, 6-10 Sep 2009

Fricke, A.
Succession patterns of turf algal communities in a Caribbean coral reef. Botanists’ meeting, Leipzig, 6-10 Sep 2009

Physiological responses of tropical reef macroalgae to nutrient enrichment along a reef slope. Botanists’ meeting, Leipzig, 6-10 Sep 2009

Epiphytic algae on the brown macrophyte Lobophora variegata along a depth gradient in a Caribbean coral reef. European Marine Biological Symposia, EMBS, Heriot-Watt University, Edinburgh, Scotland, 22-17 Aug 2010

Glaser, M.

Social-ecological systems analysis for sustainable coastal futures. Colloquium on coastal management, IPB, Bogor, Indonesia, 8 Jan 2010

Understanding and implementing coastal and marine social-ecological system analysis. International SPICE workshop “Developing theory and supporting policy through
multi-level social-ecological analysis in the context of coastal and marine resources governance”, Bogor, Indonesia, 15 Apr 2010
Workshop CeSIA: Nachhaltigkeitsforschung und Bewertung am Leibniz-Zentrum für Marine Tropenökologie. Aufbau eines Leibniz Zentrums für nachhaltige Wirkungsmessung, Leibniz Centre for Sustainability Impact Assessment (CeSIA), Berlin, 4 Nov 2010
Research findings, policy recommendations and further research needs: People, reefs and fish in Spermonde Archipelago, South Sulawesi. Hasanuddin University, Makassar; WWF-TNC Joint Marine Program, Berau, Indonesia, 24 Nov 2010
Innovations and transformations in marine social-ecological systems: some initial thoughts.... Workshop ”Innovation and transformation in marine social-ecological systems”, Cairns, Australia, 1 Dec 2010

Glaser, M., Ferse, S.

Glaser, M., Glaeser, B.
Introduction to LOICZ priority topic I – social-ecological systems analysis. ASLO Aquatic Sciences Meeting 2009 “A Cruise through Nice Waters”, Nice, France 30 Jan 2009

Grote, B.
Possible effects of climate change on the recruitment of Merluccius capensis and M. paradoxus, Fish and Climate Change. The Fisheries Society of the British Isles Annual Symposium, Queen’s University, Belfast, Northern Ireland, 27 July 2010

Herbeck, L.
Amino acid and amino sugars as indicator for particulate organic matter quality and distribution in the Wenchang/Wenjiao rivers and estuary, Hainan, China: Seasonal changes and human impact. 2nd Sino-German Joint LANCET Workshop, Haikou, Hainan, P.R. China, 6-7 Mar 2010
Impacts of shrimp and fish pond effluents on the water quality in the coastal zone of Hainan, tropical China. 2nd Sino-German Joint LANCET Workshop, Haikou, Hainan, P.R. China, 6-7 Mar 2010

Herbeck, L., Unger, D., Jennerjahn, T.
Impacts of shrimp and fish pond effluents on coastal waters of Hainan, tropical China, traced by water quality and bio-indicators, Estuaries and Coasts in a Changing World, Coastal and Estuarine Research Federation 20th Biennial Conference, Portland, USA, 1-5 Nov 2009

Herbeck, C.
Influence and importance of benthic food web on carbon and nutrient cycle. International workshop on progress and plan of SPICE cluster 2 phase II, Purwokerto, Indonesia, 25 Feb 2009

Hohn, S.
Is coccolithophore calcification coupled to photosynthesis? Joint EPOCA, BIOACID and UKOARP meeting, Bremerhaven, 28 Sep 2010

Ittekkot, V.
Capacity building activities under SCOR. Third SCOR Summit of International Marine Research Projects, Newark, Delaware, USA, 30 Mar 2009
Research on environmental issues related to tropical coastal systems. Chinese University of Geosciences, Wuhan, P.R. China, 15 Jan 2010
SPICE status. Interministerial meeting of the German Indonesian Cooperation, Berlin, 6-8 June 2010
Capacity building in marine science, IOC 50th anniversary celebration, Berlin, 6 Oct 2010

Keyl, F.
On the biophysical tolerance of Dosidicus gigas. 5th International Symposium on Pacific Squid, CIBNOR, La Paz, Mexico, 13 Oct 2010
Size-at-maturity and population fecundity in marine animals. 5th International Symposium on Pacific Squid, CIBNOR, La Paz, Mexico, 14 Oct 2010

Klicpera, A., Hanebuth, T. J. J., Westphal, H.
Microsampling of bivalve shells: a window into the past. Workshop – Paleoceanography of
Rio de la Plata and Atlantic Ocean; Universidad de la República, Montevideo, Uruguay, 4 Oct 2010

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Microfacies analysis and palaeoenvironmental evolution of latest Jurassic biogenic carbonates in the Molinos area (Tithonian, NE Spain). Sediment 2010, University of Potsdam, Potsdam, Germany, 25-27 June 2010

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Fish parasite diversity in Indonesian coastal ecosystems. Annual meeting of the Deutsche Gesellschaft für Parasitologie, Düsseldorf, 18 Mar 2010
Fish parasite diversity in Indonesia and its use as biological indicators. The XIIth International Congress of Parasitology (ICOPA), Exhibition and Convention Centre Melbourne, Australia, 12-25 Aug 2010

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Status of the seagrass fish community in back-reef areas of East Hainan. ZMT-GMRC workshop, Beihai, P.R. China, 12 Mar 2010
Mangrove dynamics and management in North Brazil. Universidad del Valle, Santa Marta, Colombia, 15 Oct 2010

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Distribution and abundance of cetaceans off the Ecuadorian continental coast and in the Galapagos Marine Reserve. Galapagos Science Symposium, Santa Cruz, Galapagos, 20-24 July 2009

Kunzmann, A.
Physiological performance of giant clams in aquaculture (invited talk). World Ocean Conference 2009, "Climate change impacts to oceans and the role of oceans to climate change", Manado, Indonesia, 12 May 2009
Latest developments in ornamental aquaculture in ZMT: Improvement of water treatment (invited talk). IUI of the Hebrew University Jerusalem, Eilat, Israel, 14 Jan 2010

Lukas, M.
Spatial pasts challenging present management. The Citanduy watershed on Java between colonial forestry and contemporary management. Conference Space, Movement and Place in Southeast Asia, University of California, Berkeley, 2 Apr 2010
"Himalayan degradation" and the disappearing Segara Anakan Lagoon. Land use change and watershed management on Java, Indonesia. 11th annual meeting of the International Society for Ecological Economics (ISEE), University of Oldenburg, 23 Aug 2010
Beyond the divide between "local" and "scientific" knowledge. The role of hybrid knowledge and networks for more inclusive and sustainable decision making. 11th annual meeting of the International Society for Ecological Economics (ISEE), University of Oldenburg, 24 Aug 2010
Lectures

Nordhaus, I.
Spatio-temporal variation of macrobenthic communities related to environmental conditions. International workshop on progress and plan of SPICE cluster 2 phase II, Purwokerto, Indonesia, 25 Feb 2009

Nordhaus, I., Diele, K., Dsikowitzky, L.
Auswirkungen industrieller Schadstoffe auf benthische Organismen und Biodiversität tropischer Ästuare. Presentation of SAW development plan, Leibniz Association, Berlin, 7 Oct 2010

Nordhaus, I., Dsikowitzky, L., Geist, S., Hinrichs, S., Jennerjahn, T.

Nordhaus, I., Geist, S., Hinrichs, S., Dsikowitzky, L.
Human impacts on a mangrove-fringed lagoon in Java: Consequences for tree and macrobenthic biodiversity. International Conference of the Association for Tropical Biology and Conservation, Sanur, Bali, Indonesia, 22 July 2010

Nugues, M.
Life and death of coral reefs: The role of benthic algae. 3rd Public Core Mini-Symposium on Ecological and Biogeochemical Coral Reef Research, Munich, 4 May 2009

Physiological responses of tropical reef macroalgae to nutrient enrichment along a reef slope. Botanists’ meeting. Leipzig, 6 -10 Sep 2009


Effects of grazer exclusion and nutrient enrichment on primary algal succession and settlement potential of the benthos for corals. European Meeting of the International Society for Reef Studies (ISRS) 2010, Wageningen, Netherlands, 14 Dec 2010

Pribadi, T.
Macroalga as nutrient bioabsorber. Seminar of Aquatic Ecology, University of Skövde, Sweden, 21-26 Nov 2010

Reuter, H.
Coastal connectivity and management and potential modelling approaches. University of Eduardo Mondlane Maputo, Mozambique, 22 June 2010

Modelling D. gigas life-history & ecological function in the eastern Pacific Ocean. IMARPE, Lima, Peru, 10 Nov 2009

From organismic properties to community dynamics – The potential of agent-based models to represent and analyse ecological systems (invited talk). ICBM, Seminar Complex Systems and Modelling, Oldenburg, 8 Jan 2009

Reuter, H., Jopp, F.
Eco logical modeling in aquatic and terrestrial environments – How does the research object influence theory and practice? Annual meeting of the Gesellschaft für Ökologie, Giessen, 1 Sep 2010

B. Breckling, B., Reuter, H.
A modelling approach to estimate regional dispersal processes: Case study on maize gene flow in Northern Germany. Annual Meeting of the Gesellschaft für Ökologie, Giessen, 1 Sep 2010

Rick, S.
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Determining the anhydrosugars levoglucosan, mannosan and galactosan in aerosols. 28th International Symposium on Chromatography, Valencia, Spain, 12 -16 June 2010

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

Rixen, T.

Impact of land-sea fluxes from major rivers of
Lectures

East Sumatra on coastal ecosystem health: pollutant loads, transport and fate. World Ocean Conference 2009, “Climate change impacts to oceans and the role of oceans to climate change”, Manado, Indonesia, 13 May 2009

The role of oxygen for ecosystem functioning. World Ocean Conference 2009, “Climate change impacts to oceans and the role of oceans to climate change”, Manado, Indonesia, 13 May 2009

Biogeochemical fluxes in the Indonesian Sea. World Ocean Conference 2009, “Climate change impacts to oceans and the role of oceans to climate change”, Manado, Indonesia, 13 May 2009

Monsoonal impacts on biogeochemical processes in the northern Indian Ocean. 2010 Ocean Sciences Meeting, Portland, Oregon, USA, 24 Feb 2010

Global change and the Indonesian seas. UNHA, Makassar, Indonesia, 9 Aug 2010

Some aspects of the carbon cycle within the Benguela upwelling system. Benguela Current Commission Meeting, Swakopmund, Namibia, 13 Oct 2010

Roder, C.
Resilience, potential and mechanisms of acclimatisation of corals. 3rd Public Core Mini-Symposium on Ecological and Biogeochemical Coral Reef Research, Munich, 4 May 2009

Field observation and preliminary notes on the status of NE-Hainan coral reefs. 2nd LANCET workshop, Haikou, Hainan, PR. China, 6 Mar 2010

Coral reef research at the ZMT. ZMT-GMRC workshop, Beihai, PR. China, 12 Mar 2010

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

Lessons learnt from Can Gio for mangrove rehabilitation in India (invited talk). International Symposium on the Biodiversity associated with Mangrove Ecosystems in Southeast Asia, Hanoi, Vietnam, 18 May 2010

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

Sawall, Y.
Metabolism of the hermatypic coral Stylophora subsenata and its adaptive capacity under changing environmental conditions. World Ocean Conference 2009, “Climate change impacts to oceans and the role of oceans to climate change, Manado, Indonesia, 12 May 2009

Metabolic adaptations of the coral Porites lutea to various environmental conditions. The Second Asian Pacific Coral Reef Symposium, Phuket, Thailand, 24 June 2010

Regional-, reef- and fine-scale variations in calcification, photosynthesis and nutritional status of the hermatypic coral Porites lutea. King Abdullah University of Science & Technology (KAUST), Thuwal, Saudi Arabia, 5-10 Oct 2010

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Flowers based on the honour system: A natural experiment about the influence on framing. 11th annual meeting of the International Society for Ecological Economics (ISEE), University of Oldenburg, 23 Aug 2010

Schultz, C.
SPICE Program overall introduction. SPICE Program evaluation workshop, Jakarta, Indonesia, 21 Apr 2010

Proposed topics and preparations for the SPICE III Program. National SPICE II Meeting, Bremen, Germany, 14 Sept 2010

SPICE – an Indonesian-German initiative in earth system research. Status and perspectives. SPICE future Workshop, Bremen, Germany, 26-29 Oct 2010

Schwerdtner Máñez, K.
The history of a disappearing lagoon. SPICE workshop, Indonesia, 25 Feb 2009

The missing link: how disappearing species change socio-ecological systems. Conference Oceans Past II, University of British Columbia, Vancouver, Canada 28 May 2009

The contribution of environmental history to fisheries management. University of Vigo, Department of Applied Economics, Vigo, Spain, 28 Mar 2010

Lectures

and marine resources governance”, Bogor, Indonesia, 14 Apr 2010

Schwerdtner Máñez, K., Ferse, S.
The history of Makassan trepang fishing and trade. Conference Oceans Past III: Stories from the sea – history of marine animal populations and their exploitation, Trinity College, Dublin, Ireland, 19 Nov 2010

Spörl, G.
Stable nitrogen and carbon isotope composition of suspended matter and sediments in a coastal lagoon affected by sugarcane monoculture in NE Brazil. Workshop, UFAL, Maceió, Brazil, 11 Mar 2009

Teichberg, M.
Succession patterns of turf algal communities in a Caribbean coral reef. Botanists’ meeting, Leipzig, 6-20 Sep 2009
Physiological responses of tropical reef macroalgae to nutrient enrichment along a reef slope. Botanists’ meeting, Leipzig, 6-10 Sep 2009
Macroalgal blooms in temperate and tropical coastal waters: nutrient enrichment, grazing, and ecophysiological field experiments. Coastal and Estuarine Research Federation 20th Biennial Conference, Portland, Oregon, 1-5 Nov 2009

Unger, D.
Introduction to the Leibniz Center for Tropical Marine Ecology. ZMT-GMRC workshop, Beihai, PR. China, 12 Mar 2010
Biogeochemical approaches in ZMT’s tropical marine ecology research. ZMT-GMRC workshop, Beihai, PR. China, 12 Mar 2010

Unger, D., Kaiser, D., Haolang, Z., Yan, B., Tinghe, L., Peijian, D.
The role of mangroves for biogeochemical fluxes into the coastal Beibu Gulf: process and first results. Guangzhou, PR. China, 21 Oct 2010

Unger, D., Krupp, L., Jennerjahn, T.
Impacts of shrimp and fish pond effluents on the water quality in the coastal zone of Hainan, tropical China. 2nd Sino-German Joint LANCET Workshop, Haikou, Hainan, PR. China, 6-7 Mar 2010

Westhaus-Ekau, P.
Sino-German Initiative on Marine Sciences; Delegation from the Guangxi Mangrove Research Center/Guangxi Marine Environmental and Coastal Wetland Research Center, Beihai, PR. China, 23 Nov 2009
Implementation of the Sino-German initiative on marine sciences, 2004-2009. 3rd steering committee meeting of the Sino-German initiative on marine sciences, Beijing, PR. China, 13 Jan 2010
Cooperation in marine sciences between Chinese institutions and the ZMT; visit of the delegation from the Embassy of the P.R. of China, Berlin, 26 Feb 2010
Implementation of the Sino-German Initiative on Marine Sciences 2004-2010; Visit of the delegation from the Ministry of Land and Resources and the State Oceanographic Administration, PR. China, 6 July 2010
ZMT partners in marine research and education in China; Visit of the Delegation of the State Oceanic Administration (SOA), Beijing, 26 Oct 2010

Unger, D., Krupp, L., Li, M., Jennerjahn, T.
Amino acid and amino sugars as indicator for particulate organic matter quality and distribution in the Wenchang/Wenjiao rivers and estuary, Hainan, China: seasonal changes and human impact. 2nd Sino-German Joint LANCET Workshop, Haikou, Hainan, PR. China, 6-7 Mar 2010
Glaser, M., Ferse, S.

Glaser, M., Ferse, S., Neill, M.

Glaser, M., Ferse, S., Schwerdtner Mañez, K.

Glaser, M., Glaeser, B.
Global change and coastal threats. The Indonesian case. Storm Surges Congress 2010, Hamburg, 11-16 Sep 2010

Herbeck, L., Unger, D., Krumme, U., Liu, S., Jennerjahn, T.
Typhoon-induced changes in the biogeochemistry of a tropical estuary in Hainan, China. 24th International Meeting on Organic Geochemistry (IMOG), European Association of Organic Geochemists (EAOG), Bremen, 6-11 Sep 2009

Herbeck, L., Unger, D., Wang, D., Jennerjahn, T.
Impact of shrimp pond effluents on seagrass beds in tropical Hainan, China. ASLO Aquatic Sciences Meeting 2009 “A Cruise through Nice Waters”, Nice, France, 24 Jan-1 Feb 2009

Herbon, C., Nordhaus, I.
Benthic food web structure in mangroves of Segara Anakan, Java, Indonesia. International Conference of the Association for Tropical Biology and Conservation, Sanur, Bali, Indonesia, 22 July 2010

Herbon, C., Nordhaus, I., Sunckoko, RA.
Carbon and nitrogen flow through the benthic food web in the Segara Anakan Lagoon in Java, Indonesia. World Ocean Conference, Symposium of Indonesia – Germany SPICE program, Manado, Indonesia, 11-15 May 2009

Hohn, S.
Nonlinear model analysis of plankton growth and calcification of the PeECE-1 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

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

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

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

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

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

**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.**

**Lukas, M.**
Spatial terrestrial pasts challenging contemporary coastal zone management. The case of the disappearing Segarar 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.**

**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.**

**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.
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. 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

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
- 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, Bahía Blanca, Argentina, Hydrology, plankton and nutrient dynamics of the coastal brackish Chasico 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
Events

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. 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

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
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. Deswandhi

K. Diele
Workshop “Best practices in ocean acidification 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/Warmemünde, 24 June 2009

Guest lectures at the ZMT

Participation in 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
- ICUS 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

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, 1-15 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
Grand challenges in global sustainability research: a systems approach to research priorities for the decade, UNESCO, Paris, 21-23 June 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-GEMAR, 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 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

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

Participation in events
Events

Participation in events

- 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. Keyp
  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
  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

- A. Krutwa

- 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
Events

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 Ionenanalyse, Berlin, 1-4 Mar 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-GEO-MAR, Kiel, 27-28 May 2010
Leibniz Association meeting, AK Europa, IFM-GEO-MAR, 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

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

**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 biominalization and microanalytical 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. Schwertner 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 25-1 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, PR. 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 Entwicklungsländern und Schwellenländern in Bildung, Wissenshaften 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
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 Affairs, 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, Swakopmund, 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
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, 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

M. 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, Pekanbara, 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, 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 Project, mangrove afforestation, Forest Department, Ahmedabad, Gandhinagar, India, 1 Oct - 12 Nov 2009
Fieldwork, Gujarat Forest Development Project, mangrove afforestation, Forest Department, Ahmedabad, Gandhinagar, India, 1-31 Mar 2010
Fieldwork, Gujarat Forest Development Project, mangrove afforestation, Forest Department, 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, Department 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 Center, 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
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. Ekau
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

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
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<td><strong>LANCET project, ZMT-GMRC workshop, Haikou, Hainan, Beihai, P.R. China, 1-14 Mar 2010</strong></td>
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<td><strong>A. Kunzmann</strong></td>
<td>Continuation, development AIF Project, Berlin, 2-3 July 2009</td>
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<td>BMBF workshop, Biota, Inkaba, Namibia, 24 May - 2 June 2009</td>
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<td>GENUS project, preparation, AWI, Helgoland, 14 July 2009</td>
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<td>GENUS annual meeting, ZMAW, Hamburg, 25 Mar 2010</td>
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<td>Presenting project proposal, AIF, Berlin, 15-16 Aug 2010</td>
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<td>GENUS II meeting, ZMAW, Hamburg, 24 Aug 2010</td>
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<tr>
<td><strong>R. J. Lara</strong></td>
<td>Collaboration meeting, University of Osaka, Alexander von Humboldt-Stiftung, Bonn, 10-11 Mar 2009</td>
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<td>Collaboration meeting, Instituto Argentino de Oceanografía (IADO), Bahía Blanca, Argentina, 11-28 Dec 2010</td>
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<td><strong>A. Merico</strong></td>
<td>Project preparation, IfM-GEOMAR, Kiel, 10 June 2010</td>
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<td>Collaboration meeting, National Oceanography Centre, Southampton, UK, 25-28 Aug 2010</td>
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<td><strong>R. Moll</strong></td>
<td>ATBC Meeting, Bali, Indonesia, 9-25 July 2010</td>
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<td><strong>I. Nordhaus</strong></td>
<td>Presentation of SAW development plan, Leibniz Association, Berlin, 6-7 Oct 2010</td>
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<td><strong>M. Nugues</strong></td>
<td>FORCE Kick off Meeting, University of the West Indies, Bridgetown, Barbados, 1-3 Mar 2010</td>
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<td>Initiation of collaboration, University of Wageningen, 19-20 Aug 2010</td>
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<td><strong>H. Reuter</strong></td>
<td>DFG project meeting, IfM-GEOMAR, Kiel, 11 Mar 2009</td>
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<td>Preparation GiÖ meeting biodiversity, Gießen, 4-5 Mar 2010</td>
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<td><strong>S. Rick</strong></td>
<td>BEIBU, Project meeting, IOW, Warnemünde, 8-9 June 2010</td>
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<td><strong>T. Rixen</strong></td>
<td>Preparation of DFG proposal, Mobility-Program, Makassar, Jakarta, Indonesia, 5-11 Aug 2010</td>
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<td><strong>U. Saint-Paul</strong></td>
<td>Vietnam project meeting, University of Kiel, 25 Jan 2010</td>
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<td>Project preparation, INVEMAR, Bogota, Colombia, CATIE, Turrialba/Ostional, Costa Rica, 17-31 May 2010</td>
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<tr>
<td><strong>Y. Sawall</strong></td>
<td>Collaboration meeting, KAUST, Thuwal, Saudi Arabia, 5-10 Oct 2010</td>
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<tr>
<td><strong>A. Schlüter</strong></td>
<td>Collaboration meeting, University of Hamburg, 13 Sep 2010</td>
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<tr>
<td><strong>K. Schwertner Máñez</strong></td>
<td>Project planning, University of Wageningen, Netherlands, 22-25 June 2009</td>
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<td>SPICE project, workshop, evaluation, IPB, Bogor, Nationalarchiv, Jakarta, Indonesia, 12-22 Apr 2010</td>
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<tr>
<td><strong>C. Schultz</strong></td>
<td>SPICE coordination meeting, Indonesische Botschaft, Berlin, 28 Jan 2009</td>
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<td>SPICE project, executive committee meeting, Jakarta, Indonesia, 15-24 Apr 2010</td>
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<td>SPICE III coordination meeting, Purwokerto, Jakarta, Indonesia, 18-26 Aug 2010</td>
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<td>SPICE II coordination meeting with project executing organisation Jülch, Rostock-Warnemünde, 17-21 Nov 2010</td>
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<tr>
<td><strong>M. Teichberg</strong></td>
<td>Project cooperation, Marine Biological Laboratory, Woods Hole, USA, 5-21 Mar 2009</td>
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<td><strong>D. Unger</strong></td>
<td>BEIBU project meeting with Chinese guest scientists, IOW, Warnemünde, 8 June 2010</td>
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<td>LANCET project meeting, ECNU, Shanghai, P.R. China, 13-22 Oct 2010</td>
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<tr>
<td><strong>P. Westhaus-Ekau</strong></td>
<td>Summer school, coordination, Ocean University of China, Qingdao, P.R. China, 14-21 May 2009</td>
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<td>Management 5th Sino-German Summer School, student supervision, OUC, Qingdao, P.R. China, 13 July – 3 Aug 2009</td>
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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. Luki 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. Shanrong 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 Fujian, 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 Mukhilis 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. Taia 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. Christopher Muhando, Institute of Marine Science, Zanzibar, Tanzania, 6 - 10 July 2009
Dr. Yul Y. Nazarrudin, Education Attaché, Indonesian Embassy, Berlin, 17 Feb 2010 / 26 Aug 2010
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, Bahia 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 Sabliah, 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 Soemorumeiko, 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 Inland 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 - 22 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 Ratulaui University, Manado, 17 - 21 Aug 2009
Carlos Eduardo Veiga de Carvalho, Universidade Estadual do Norte Fluminense (UENF), Centro de Biociencias e Biotecnologia, Rio de Janeiro, Brazil, 28 Sep 2009 - 30 Sep 2010
Dr. Hans Verheyen, 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 Wennno, 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, Indonesien, 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, Padand, 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
Teaching at the ZMT

Scientific writing, ZMT (sandwich program, IPB Bogor, G. Krause, L. Dzikowitzky, 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

ISATEC


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 Astuare (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 Meeresbiologie (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. Schwedtner Mäñez), ST 09
Participatory techniques & stakeholder analysis (M. Glaser, K. Schwedtner Mäñez), ST 09
Participatory techniques & stakeholder analysis (S. Ferse, K. Schwedtner Mäñez), ST 10
Interdisciplinarity between natural & social sciences (S. Ferse, M. Glaser, K. Schwedtner Mäñez), ST 09
Interdisciplinarity between natural & social sciences (S. Ferse, K. Schwedtner Mäñez), ST 10
Ecological economics I (A. Schlüter), ST 10
Ecological economics II (K. Schwedtner Mäñez), ST 09
Einführung in die Umweltpolitik: Lokale, nationale und internationale Fragen (M. Fitnere), ST 09
Molekulare Tracer zur Untersuchung mariner Stoffkreisläufe (R. Lara), ST 09, ST 10

Teaching at the University of Bremen

ISATEC


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 Astuare (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
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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 Meeresbiologie (K. Bischof), WT 08/09, WT 09/10
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Introduction into systems analysis (H. Reuter), WT 08/09, WT 09/10
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Einführung in die Umweltpolitik: Lokale, nationale und internationale Fragen (M. Fitnere), ST 09
Molekulare Tracer zur Untersuchung mariner Stoffkreisläufe (R. Lara), ST 09, ST 10
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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 the dynamics of marine resources under environmental variability (M. Wolff), ST 09
Ecological economics I (K. Schwerdtner Máñez), ST 09
Participatory techniques & stakeholder analysis (M. Glaser, K. Schwerdtner Máñez), ST 09
Participatory techniques & stakeholder analysis (S. Ferse, K. Schwerdtner Máñez), ST 10
Interdisciplinarity between natural & social sciences (M. Glaser, K. Schwerdtner Máñez), ST 09

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### Capacity Building

**Interdisciplinarity between natural & social sciences** (S. Ferse, K. Schwerdtner Márquez), ST 10
**Ecological economics II** (K. Schwerdtner Márquez), 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 Ästuare** (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

**Teaching at the University of Bremen**

**Teaching at Jacobs University**

**Teaching at other partner institutions**

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**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 selbstständigen wissenschaftlichen Arbeiten** (K. Bischof), ST 10

**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 approaches, 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 Daressalam, Sansibar (H. Reuter), 14 - 18 June 2010**
**Integrated Coastal Zone Management, INVEMAR, St. Marta, Bogota, Colombia (A. Schlüter), 18 - 21 May 2010**

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

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**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 approaches, 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 Daressalam, Sansibar (H. Reuter), 14 - 18 June 2010**
**Integrated Coastal Zone Management, INVEMAR, St. Marta, Bogota, Colombia (A. Schlüter), 18 - 21 May 2010**

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**Sunflowers, morals, framing and a natural experiment** (A. Schlüter), 29 Sep 2010
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
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 Cheimerius 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: D1-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 Clararamunt Quitchens: 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-
Sonja Kleinertz: Fischparasiten als Bioindikatoren: zum Umweltsatus 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

Capacity Building

economic development in Segara Anakan Lagoon: scenarios for sustainable natural resource management (M. Flitner, K. Schwerdtner Máñez)

Carolin Herbon: Benthic nutrient cycling in the mangrove fringed Segara Anakan Lagoon (K. Bischof, I. Nordhaus)

Ingo Jänen: Saisonal 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 biogeochemischem 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 ecohdrology 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)
### Capacity Building

#### Ongoing external dissertations

- Lucinaldo Blandt: Capacitação da resiliência social através de metodologias participativas: Experiências em comunidades amazônicas, (capacitation of social resilience with participatory methodologies, UFPa, 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, UFPa, 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 Taúa, Estado do Pará, UFPa, Belém, 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 bentho-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, Belém, 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, Hasanuddin University, Makassar, 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 Unterwuchsalgen der Helgoländer Gezeitenzone (ZMT Supervisor: K. Bischof), 2009
- Min Li: Menge und Zusammensetzung partieller Aminosäuren und Aminozucker in den Flüssen Wenchang und Wenjiao und ihrem Ästuar, Hainan, China (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
- C. Nebel: River reef impact in Nha Trang Bay, Vietnam: The potential use of $^{14}$N/$^{15}$C isotopes as tracer of anthropogenic input in a heterogenic environment (ZMT Supervisor: A. Kunzmann, K. Bischof), 2009
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


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

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 Lüsig: 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)

Christian Reichel: Nutzerkonflikte und -kulturen der Segara Anakan Lagoon, West Java, Indonesien (ZMT Supervisor: M. Glaser)
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

- 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

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)


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 Mycteroperca 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)

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)


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 bibarbatis in Namibian upwelling waters (W. Ekau, U. Saint-Paul)

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)

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 bibarbatis 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 (Tanguar Haour) of Bangladesh (M. Glaser)

Alexandra Ostmann (Germany): Diversity and spatial variation of meiofauna in the Segara Anakan Lagoon, Java, Indonesia (I. Nordhaus)
Maricela Rodriguez Gongora (Colombia): Abiotic and biotic factors controlling the distribution and abundance of macroalgae in proproots 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 Sulawesi, 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): Investigating 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 accumulation in scleractinian corals from Almirante Bay, Panama (M. Nugues)


Kalvis Grinvalds (Latvia): Influence of lunar and diel dynamics on a tidal creek fish community 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 mosquito fish (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 temporal variation in physico-chemical characteristics, 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 melanotheron (Rüppell, 1852) from two lagoons in Ghana (W. Ekau)
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Tangled Up in a Global Net / The Jakarta Post, 23 Apr 2009
Heute zu Gast: Matthias Wolff / Weser Kurier, 11 May 2009
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- **Mangrove: Nutzpflanze statt Ödnis – Forschung zeigt ökologisch wichtige Funktion der Küstenpflanze** / pressetext, 8 Nov 2010
- **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
- **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
- **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)
- **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: 1Live, 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

- **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)
- 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 P. Westhaus-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- signing, 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: Mittagsmagazin, 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 – SAT1 Regional, 5:30 pm, „Korallen vom Aussterben bedroht“ (Report about S. Ferses 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
- Neues Lehrbuch zu aquatischen Ökosystemen der Tropen, 15 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

### Web news items
- 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)
- 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 P. Westhaus-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)
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- 5 Nov 2010 – DRadio Wissen, „Zehn-Jahres-Projekt untersucht Funktion der Mangrovenwälder“ (News about the new book on the MADAM project)

### Information material
- SPICE II – Science for the Protection of Indonesian Coastal Marine Ecosystems (flyer, series “Projects”), 2009
- ZMT flyer, ger. and eng. versions, 2010
Public Relations

- 18 Mar 2009, poster exhibition („Forschung für Nachhaltigkeit“) at a symposium of the parliamentary party CDU about research cooperation with developing countries
- 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 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 – Warmer Zeiten“ about climate change at the Oldenburger Landesmuseum Natur und Mensch with an exhibit of the ZMT showing climate research on coral cores
- 2 - 3 Oct 2010, exhibition „Meeresforschung im Land Bremen“ within the framework of the „Tag der Deutschen Einheit“ in Bremen, Überseeestadt, 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
ZMT Staff

**Scientific staff**

Baer, Andreas  
Baum, Antje  
Baumgart, Anne  
Borell, Esther Michaela  
Brandt, Dr. Gunnar  
Diele, Dr. Karen  
Ekau, Dr. Werner  
Ferse, Dr. Sebastian  
Flohr, Anita  
Dsikowitzky, Dr. Larissa  
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Grote, Britta  
Herbeck, Lucia (geb. Krupp)  
Herbon, Carolin  
Hohn, Dr. Sonke  
Ittekkot, Dr. Venugopalan  
Jänen, Ingo  
Jantzen, Carin  
Jennerjahn, PD Dr. Tim Clemens  
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Wild, Prof. Dr. Christian  
Wolf, Alexander Thomas  
Wolff, Prof. Dr. Matthias

**Non-scientific staff**

Birkicht, Dipl. Ing. Matthias  
Boehme, Gabriele  
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Dobat, Dipl. Umweltbiol. Kristina  
Eickhoff, Dr. Susanne  
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Lutz, Christoph  
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Staschok, Christina  
Stefes, Carola  
Waldthausen, Constanze von  
Westhaus-Ekau, Dr. Petra  
Wiebe, Swetlana  
Yéyi, Dipl. Ing. Epiphane
## Memberships of the ZMT

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<tr>
<td>European Project on Ocean Acidification Consortium (EPOCA)</td>
</tr>
<tr>
<td>Gesellschaft für Tropenökologie – gtö</td>
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<tr>
<td>Informationsdienst Wissenschaft – idw – e.V., Bayreuth</td>
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<tr>
<td>Intergovernmental Oceanographic Commission (IOC)</td>
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<tr>
<td>Konsortium Deutsche Meeresforschung (KDM)</td>
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<tr>
<td>Zentrum für Marine Umweltwissenschaften (MARUM)</td>
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<tr>
<td>BMBF-Review Panel on “Integrated Management of German Coasts” (V. Ittekkot)</td>
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<tr>
<td>Deutsche Sektion der Intergovernmental Oceanographic Commission (IOC) (T. Jennerjahn)</td>
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<tr>
<td>German Delegation to UNESCO-IOC (Capacity Building) (V. Ittekkot)</td>
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<tr>
<td>ICES-Working Group on Marine Shellfish Cultivation (WGMASC) (G. Krause)</td>
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<tr>
<td>ICSU (International Council for Science) – SCOR (Scientific Committee on Ocean Research) Capacity Building (V. Ittekkot, Chair; W. Ekau)</td>
</tr>
<tr>
<td>ICSU-SCOPE (Scientific Committee on Problems of the Environment) Germany (V. Ittekkot, Chair)</td>
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<tr>
<td>International Hydrological Programme (IHP), UNESCO, Ecohydrology Working Group, (R. Lara)</td>
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<tr>
<td>Scientific Steering Committee of the Land-Ocean Interaction in the Coastal Zone (LOICZ) Programme (IGBP-IHDP) (M. Glaser)</td>
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<tr>
<td>SCOR Executive Committee (V. Ittekkot)</td>
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<td>SCOR Working Group 128 Hypoxia (V. Ittekkot, W. Ekau)</td>
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<td>Ecotropica – An International Journal of Tropical Ecology (U. Saint-Paul)</td>
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<td>Journal of Applied Ichthyology (U. Saint-Paul, U. Krumme)</td>
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<td>Journal of Aquaculture in the Tropics (U. Saint-Paul)</td>
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<td>Panamerican Journal for Aquatic Science (Permanent Advisory Committee, K. Diele)</td>
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<td>German Society for Marine Research (DGM), Vice-President (W. Ekau)</td>
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<td>Gesellschaft für Marine Aquakultur mbH (GMA), Büsum, Council Member (A. Kunze)</td>
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<td>Unfreunde - Freunde der Universität Bremen und der International University Bremen e.V.</td>
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<td>Wissenschaftsgemeinschaft Gottfried Wilhelm Leibniz (WGL)</td>
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<td>Wittheit zu Bremen</td>
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<th>Acronym</th>
<th>Full Name</th>
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<td>ABEQUA</td>
<td>Associação Brasileira de Estudos do Quaternário (Brazil)</td>
<td>Energie und Ökologie</td>
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<td>ABF</td>
<td>Angola Benguela Front</td>
<td>Bundesforschungsanstalt für Fischerei (Hamburg, Rostock)</td>
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<tr>
<td>ACEMON</td>
<td>Managing Aquatic Coastal Ecosystems of Monsoon Asia</td>
<td>Bundesanstalt für Geowissenschaften und Rohstoffe (Hannover)</td>
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<td>Akkreditierungs-, Zertifizierungs- und Qualitätssicherungs-Institut e.V</td>
<td>Bng Hatta University (Padang, Indonesia)</td>
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<tr>
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<td>Arbeitsgemeinschaft entwicklungsländerbezogener Postgraduierten-Programme</td>
<td>Bremer Innovations-Agentur</td>
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<td>AGU</td>
<td>American Geophysical Union</td>
<td>Bremer Investitionsgesellschaft</td>
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<td>AIF</td>
<td>Arbeitsgemeinschaft Industrieller Forschung</td>
<td>Bremer Innovations- und Technologiezentrum</td>
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<td>AIMS</td>
<td>Australian Institute of Marine Science</td>
<td>BIOACID Biological Impact of Ocean Acidification</td>
</tr>
<tr>
<td>ALFA-COSTA</td>
<td>América Latina Formación Académica – Coastal Sustainable Management of Tropical America</td>
<td>BIOLOG Biodiversität und Globaler Wandel</td>
</tr>
<tr>
<td>A&amp;M</td>
<td>Agricultural and Mechanical</td>
<td>BIOME Global Biome Mapping Project</td>
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<td>AMB</td>
<td>Arbeitsgemeinschaft Meereskundlicher Bibliotheken</td>
<td>BIOTA Biodiversity Monitoring Transect Analysis in Africa</td>
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<tr>
<td>ARTEC</td>
<td>Das Forschungszentrum Zentrum und Technik (Bremen)</td>
<td>BIS Bremerhavenener Investitions- und Stadtentwicklungsgesellschaft</td>
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<tr>
<td>ASEAMS</td>
<td>Association of Southeast Asian Marine Scientists</td>
<td>BLE Bundesanstalt für Landwirtschaft und Ernährung</td>
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<td>ASEAN</td>
<td>Association of South-East Asian Nations</td>
<td>BMBF Bundesministerium für Bildung und Forschung</td>
</tr>
<tr>
<td>ASLO</td>
<td>American Society for Limnology and Oceanography</td>
<td>BMVEL Bundesministerium für Verbraucherschutz, Ernährung und Landwirtschaft</td>
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<tr>
<td>ATBC</td>
<td>Association for the Tropical Biology and Conservation</td>
<td>BMVZ Bundesministerium für Wirtschaftliche Zusammenarbeit und Entwicklung</td>
</tr>
<tr>
<td>ATSAF</td>
<td>Arbeitsgemeinschaft Tropische und Subtropische Agrarforschung e.V. (now BEAF: Beratungsgruppe Entwicklungsorientierte Agrarforschung)</td>
<td>BPPT Agency for the Assessment and Application of Technology (Indonesia)</td>
</tr>
<tr>
<td>ATSEF</td>
<td>Arafura and Timor Seas Expert Forum</td>
<td>BRAMS Brantas-Madura-Straß Biogeochemistry</td>
</tr>
<tr>
<td>AU</td>
<td>Anna University Chennai (India)</td>
<td>B.Sc. Bachelor of Science</td>
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<tr>
<td>AWI</td>
<td>Alfred-Wegener-Institut für Polar- und Meeresforschung (Bremerhaven, Potsdam, Sylt und Helgoland)</td>
<td>BSH Bundesamt für Seeschifffahrt und Hydrographie (Hamburg, Rostock)</td>
</tr>
<tr>
<td>BAH</td>
<td>Biologische Anstalt Helgoland</td>
<td>Can Gio Ecosystem functioning of rehabilitated versus natural mangroves in the Can Gio Reserve, (Vietnam – Can Gio-Projekt)</td>
</tr>
<tr>
<td>BBN</td>
<td>Bremen Business Net</td>
<td>CAPES Coordenação de Aperfeiçoamento de Pessoal de Nível Superior; Ministério da Educação (Brazil)</td>
</tr>
<tr>
<td>BCGC, BENEFIT</td>
<td>Committee for German Cooperation</td>
<td>CARMABI Caribbean Research and Management of Biodiversity (Curaçao, Netherlands Antilles)</td>
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<tr>
<td>BCC</td>
<td>Benguela Current Commission</td>
<td>CATIE Center for Tropical Agronomy Research and Teaching (Costa Rica)</td>
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<td>BEAF</td>
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<td>CAU Christian-Albrechts-Universität Kiel</td>
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<td>BEG</td>
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<td>CCM</td>
<td>Center for Coastal Management (Newcastle)</td>
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<td>CCRF</td>
<td>Code of Conduct for Responsible Fisheries</td>
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<td>DEKLIM</td>
<td>Deutsches Klimaforschungsprogramm</td>
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<tr>
<td>DFG</td>
<td>Deutsche Forschungsgemeinschaft</td>
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<td>DFN</td>
<td>Deutsches Forschungsnetz</td>
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<tr>
<td>DFOR</td>
<td>Deutsches Forum für Entwicklungsoorientierte Forschung</td>
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<tr>
<td>DG</td>
<td>Directorate-General of the European Commission</td>
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<tr>
<td>DGH</td>
<td>Deutsche Gesellschaft für Humanökologie</td>
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<td>DGM</td>
<td>Deutsche Gesellschaft für Meeresforschung</td>
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<tr>
<td>DIVERSITAS</td>
<td>An International Programme of Biodiversity Science</td>
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<td>DSE</td>
<td>Deutsche Stiftung für internationale Entwicklung</td>
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<tr>
<td>DSS</td>
<td>Decision Support System</td>
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<tr>
<td>DTU</td>
<td>Technical University of Denmark</td>
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<td>DWK</td>
<td>Deutsche Wissenschaftliche Kommission für Meeresforschung</td>
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<td>DZG</td>
<td>Deutsche Zoologische Gesellschaft</td>
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<tr>
<td>EAOG</td>
<td>European Association of Organic Geochemists</td>
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<td>EAS</td>
<td>European Aquaculture Society</td>
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<td>ECNU</td>
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<tr>
<td>ECOMARES</td>
<td>Ecological Marine Recirculation Systems</td>
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<td>El Colegio de la Frontera Sur (Mexico)</td>
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<td>EDFAM</td>
<td>European Decapod Fisheries: Assessment and Management</td>
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<td>EDV</td>
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<td>EFMS</td>
<td>European Federation of Marine Science and Technology Societies</td>
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<td>EIOT</td>
<td>Equatorial Indian Ocean Trapp</td>
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<td>ENAAM</td>
<td>Encontro Nacional de Educacao</td>
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<td>Acronym</td>
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<tr>
<td>ICP-OES</td>
<td>Induktiv gekoppeltes Plasma (Inductively-Coupled-Plasma) mit optischer-Emmissions-Spektrometrie</td>
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<td>ICRI</td>
<td>International Coral Reef Initiative</td>
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<td>ICSC</td>
<td>International Council for Science Management</td>
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<tr>
<td>ICZM</td>
<td>Integrated Coastal Zone Management</td>
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<td>IDO</td>
<td>Instituto de Oceanología (Cuba)</td>
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<td>IDW</td>
<td>Informationsdienst Wissenschaft</td>
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<td>IECA</td>
<td>Instituto de Ecología y Ciencias Ambientales</td>
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<td>IEE</td>
<td>Institute for Ecological Economics (University of Maryland, USA)</td>
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<tr>
<td>IfBM</td>
<td>Institut für Biogeochemie und Meereschemie der University of Hamburg</td>
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<td>IfM</td>
<td>Institut für Meereskunde (Kiel)</td>
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<td>IfM-GEOMAR</td>
<td>Leibniz-Institut für Meereswissenschaften an der Universität Kiel</td>
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<tr>
<td>IGBP</td>
<td>International Geosphere-Biosphere Programme</td>
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<tr>
<td>IGV</td>
<td>Institut für Getreideverarbeitung GmbH (Bergholz-Rehbrücke)</td>
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<tr>
<td>IHDP</td>
<td>International Human Dimensions Programme on Global Environmental Change</td>
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<tr>
<td>IHF</td>
<td>Institut für Hydrobiologie und Fischereiwissenschaft der University of Hamburg</td>
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<tr>
<td>IHP</td>
<td>International Hydrological Programme</td>
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<tr>
<td>IKT</td>
<td>Informations- und Kommunikations-technologie</td>
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<tr>
<td>ILAR</td>
<td>Improved Larval Rearing</td>
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<tr>
<td>IMARPE</td>
<td>Instituto del Mar del Peru (Peru)</td>
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<tr>
<td>IMBER</td>
<td>Integrated Marine Biogeochemistry and Ecosystem Research</td>
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<td>IMOG</td>
<td>International Meeting on Organic Geochemistry</td>
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<td>IMR</td>
<td>Institute of Marine Research (Norway)</td>
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<tr>
<td>IMS</td>
<td>Institute of Marine Sciences (Tanzania)</td>
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<tr>
<td>INASEA</td>
<td>Institut für nachhaltige Aktivitäten auf See (Cuxhaven)</td>
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<tr>
<td>INCO</td>
<td>Iranian National Center for Oceanography (Iran)</td>
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<tr>
<td>INCO-DEV</td>
<td>International Cooperation in the Field of Research and Technological Development</td>
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<td>INIDEP</td>
<td>Instituto Nacional de Investigación y Desarrollo Pesquero (Argentina)</td>
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<tr>
<td>InnoWi</td>
<td>Innovation für die Wirtschaft</td>
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<tr>
<td>INPA</td>
<td>Instituto Nacional de Pesquisas da Amazônia (Brazil)</td>
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<tr>
<td>INQUA</td>
<td>International Union for Quaternary Research</td>
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<tr>
<td>INSMET</td>
<td>Instituto de Meteorología Ministerio de Ciencia Tecnología y Medio Ambiente de la República de Cuba (Cuba)</td>
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<td>INVEMAR</td>
<td>Instituto de Investigaciones Marinas y Costeras (Colombia)</td>
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<tr>
<td>InWEnt</td>
<td>Internationale Weiterbildung und Entwicklung gemeinnützige GmbH</td>
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<tr>
<td>IOC</td>
<td>Intergovernmental Oceanographic Commission</td>
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<tr>
<td>IOM</td>
<td>Institute for Ocean Management (India)</td>
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<tr>
<td>IOW</td>
<td>Institut für Ostseeforschung (Warnemünde)</td>
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<tr>
<td>IPCC</td>
<td>Intergovernmental Panel on Climate Change</td>
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<td>IPB</td>
<td>Fisheries Faculty of Bogor University (Indonesia)</td>
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<td>Leibniz-Institut für die Pädagogik der Naturwissenschaften und Mathematik</td>
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<td>IPÖ</td>
<td>Institut für Polarökologie</td>
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<td>ISA</td>
<td>International Sociological Association</td>
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<td>ISATEC</td>
<td>International Studies in Aquatic Tropical Ecology</td>
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<tr>
<td>ISC</td>
<td>International Sedimentological Congress</td>
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<tr>
<td>ISEE</td>
<td>International Society for Ecological Economics</td>
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<td>ISME</td>
<td>International Society for Mangrove Ecosystems</td>
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<td>ISRS</td>
<td>International Society for Reef Studies</td>
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<td>IST</td>
<td>Institute of Technology (Surabaya)</td>
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<td>ITB</td>
<td>Bogor Agricultural University (Indonesia)</td>
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<tr>
<td>ITLOS</td>
<td>International Tribunal for the Law of the Sea</td>
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<td>IUCN</td>
<td>International Union for Conservation of Nature</td>
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<tr>
<td>IUI</td>
<td>Inter-University Institute of the Hebrew University Jerusalem (Eilat, Israel)</td>
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<td>IUIC</td>
<td>Instituto de Investigaciones Científicas (Venezuela)</td>
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<td>JAMSTEC</td>
<td>Japan Agency for Marine-Earth Science and Technology (Japan)</td>
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<td>JGOFs</td>
<td>Joint Global Ocean Flux Study</td>
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<td>JIGIE</td>
<td>Joint Indonesian German Indian Ocean Expedition</td>
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<td>Acronym</td>
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<tr>
<td>JIGSE</td>
<td>Joint Indonesian-German Sunda Expedition</td>
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<td>JOPS I/II</td>
<td>Joint Oceanographic Projects I/II</td>
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<tr>
<td>KAUST</td>
<td>King Abdullah University of Science &amp; Technology (Saudi Arabia)</td>
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<tr>
<td>KDM</td>
<td>Konsortium Deutsche Meeresforschung</td>
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<tr>
<td>KIW</td>
<td>Kreditanstalt für Wiederaufbau (Frankfurt)</td>
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<td>KITLV</td>
<td>Koninklijk Instituut voor Taal-, Land- en Volkenkunde – Royal Netherlands Institute of Southeast Asian and Caribbean Studies (Leiden)</td>
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<td>KiWi</td>
<td>Mangroven-Waldmodell</td>
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<td>KKP</td>
<td>Research Center for Marine and Fisheries Product Processing and Biotechnology, Indonesian Ministry for Marine Affairs and Fisheries (Jakarta, Indonesia)</td>
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<td>KLMN</td>
<td>Konferenz leitender Meeresforscher Norddeutschlands</td>
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<td>KMFRI</td>
<td>Kenya Marine &amp; Fisheries Research Institute (Kenya)</td>
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<tr>
<td>KOM</td>
<td>Küste, Ökologie und Mensch</td>
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<td>KRT</td>
<td>The Ministry of Research &amp; Technology (Indonesia)</td>
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<td>LAPAN</td>
<td>National Aeronautics &amp; Space Institute (Indonesia)</td>
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<td>LAPD</td>
<td>Latin American Pollen Database</td>
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<td>LIPI</td>
<td>Indonesian Institute of Sciences (Indonesia)</td>
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<td>LME</td>
<td>Large Marine Ecosystem</td>
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<tr>
<td>LOI</td>
<td>Letter of Intent</td>
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<td>LOICZ</td>
<td>Land-Ocean Interactions in the Coastal Zone</td>
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<td>LPS</td>
<td>Landesamt für Personendosimetrie und Strahlenschutzausbildung</td>
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<td>MADAM</td>
<td>Mangrove Dynamics and Management</td>
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<td>MAIS</td>
<td>Mangroven-Informationssystem</td>
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<tr>
<td>MARCUBA</td>
<td>Congress on Marine Science in Cuba</td>
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<tr>
<td>MARIANDA</td>
<td>Marine Analytics and Data (Kiel)</td>
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<tr>
<td>MarMic</td>
<td>International Max Planck Research School of Marine Microbiology (Bremen)</td>
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<td>MARUM</td>
<td>Zentrum für Marine Umweltwissenschaften (Bremen)</td>
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<tr>
<td>MCT</td>
<td>Ministério da Ciência e Tecnologia (Brazil)</td>
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<tr>
<td>MCM</td>
<td>Marine and Coastal Management (South Africa)</td>
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<tr>
<td>MdB</td>
<td>Mitglied des Deutschen Bundestages</td>
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<tr>
<td>MFRI</td>
<td>Marine and Fisheries Research Institute (Kenya)</td>
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<tr>
<td>MNU</td>
<td>Mathematisch und Naturwissenschaftlicher Unterricht</td>
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<tr>
<td>MoU</td>
<td>Memorandum of Understanding</td>
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<tr>
<td>MOSTE</td>
<td>Ministry of Science, Technology and Environment (Vietnam)</td>
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<td>MoRST</td>
<td>Ministry of Research, Science and Technology (Neuseeland)</td>
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<td>MOST</td>
<td>Ministry of Science and Technology (Vietnam)</td>
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<tr>
<td>MPA</td>
<td>Marine Protected Areas</td>
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<td>MPEG</td>
<td>Museu Paraense Emilio Goeldi (Brazil)</td>
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<td>MPI</td>
<td>Max-Planck-Institut</td>
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<td>MPIBC</td>
<td>Max-Planck-Institut für biophysikalische Chemie (Göttingen)</td>
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<td>MPIEM</td>
<td>Max-Planck-Institut für experimentelle Medizin (Göttingen)</td>
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<td>MPIMMM</td>
<td>Max-Planck-Institut für marine Mikrobiologie (Bremen)</td>
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<tr>
<td>MRC</td>
<td>Mekong River Commission</td>
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<td>MRE</td>
<td>Ministério das Relações Exteriores (Brazil)</td>
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<tr>
<td>M.Sc.</td>
<td>Master of Science</td>
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<td>M.S.S.</td>
<td>Marine Science Station, Aqaba (Jordan)</td>
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<tr>
<td>NAM S&amp;T Centre</td>
<td>Non-aligned movement and Developing Countries Science and Technology Centre (India)</td>
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<td>NARA</td>
<td>National Aquatic Resources Research and Development Agency (Sri Lanka)</td>
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<td>NatMIRC</td>
<td>National Marine Information and Research Centre (Namibia)</td>
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<td>NEBROC</td>
<td>Netherlands Bremen Oceanography</td>
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<td>NFA</td>
<td>National Fisheries Authority (Papua New Guinea)</td>
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<tr>
<td>NGO</td>
<td>Non-Governmental Organisation</td>
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<td>NHI</td>
<td>Neue Hanse Interregio – Nieuwe Hanze Interregio</td>
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<td>NICED</td>
<td>National Institute for Cholera and Enteric Diseases (India)</td>
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<td>NIO</td>
<td>National Institute of Oceanography (Goa, India)</td>
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<td>NIOF</td>
<td>National Institute of Oceanography and Fisheries (Egypt)</td>
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<td>NIOZ</td>
<td>Nederlands Instituut voor Onderzoek der Zee (Texel)</td>
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<tr>
<td>NLU</td>
<td>Institut für Natur-, Landschafts- und Umweltschutz</td>
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<td>NOAA</td>
<td>National Oceanic and Atmospheric Administration</td>
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<tr>
<td>NRC</td>
<td>National Research Center (Egypt)</td>
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</table>
List of Acronyms

NRCT  National Research Council of Thailand
NTAFS  Network of Tropical Aquaculture and Fisheries Scientists, ICLARM (Malaysia)
NUMA  Núcleo do Meio Ambiente (Brazil)
NUPAUB-USP  Núcleo de Apoio à Pesquisa sobre Populações Humanas em Áreas Úmidas Brasileiras da Universidade de São Paulo (Brazil)
NWO  Nederlandse Organisatie voor Wetenschappelijk Onderzoek
OECD  Organization for Economic Cooperation and Development
OPAC  Online Public Access Catalogue
ORCAS  Ocean Reef Coupling in the Andaman Sea
OUC  Ocean University of China (P.R. China)
PACKMeds  Dynamics of semi-enclosed marine systems: the integrated effects of changes in sediment and nutrient input from land
PCON  Pacific Congress on Marine Science and Technology
PAGES  Past Global Environmental Changes (IGBP)
PAHs  Polyaromatic Hydrocarbons
PAKT  Leibniz-Vorhaben im wettbewerblichen Verfahren (SAW-Verfahren) im Rahmen des Paktes für Forschung und Innovation
PANGAEA  Paleo-Network for Geological and Environmental Data
PASARELA  Discovery Modelling Mediation Deliberation: Interface Tools for Multi-stakeholder Knowledge Partnerships for the Sustainable Management of Marine Resources and Coastal Zones
PCAMRD  Philippine Council for Aquatic and Marine Research and Development (Philippines)
PCG  Palestine Consultancy Group (Jerusalem)
PD/A  Programas Demonstrativas, tipo A (Brazil)
PES  Department of Environmental Physics (Bremen)
PFAU  Programm zur Förderung für angewandte Umweltforschung
Ph.D.  Doctor of Philosophy
PIK  Potsdam Institut für Klimafolgenforschung
PMBC  Phuket Marine Biological Center (Thailand)
PNG  Papua Neuguinea
POLYPLAN  Ingenieurbüro für Energie- und Umwelttechnik GmbH (Bremen)
PPGCIENT  Programa de Pós-Graduação em Ciências: Enfase em Desenvolvimento Sustentável (Brazil)
PPTK  Center for Coral Reef an der Hasanuddin Universität (UNHAS) (Indonesia)
Pro Inno II  Programm zur Förderung der Erhöhung der Innovationskompetenz mittelständischer Unternehmen
PRORENDÁ  Programma de Renda Familiar (Brazil)
ProSys  Gesellschaft für produktionsorientierte Umwelttechnologien und -management mbH
PSC  Phillips Seafood Company (Indonesia)
PT  Projekträtter
PTJ  Project executing organization Jülich – Forschungszentrum Jülich
PUSH  Public Understanding of Science and Humanities
RC  Research cutter
RMD  Resource and Development Devision (Philippines)
RISTEK  Ministry of Science and Technology (Indonesia)
ROSTE  Regional Office for Science and Technology (Europe)
ROSTLAC  Regional Office for Science and Technology (Latin America and the Caribbean)
RSMAS  Rosenstiel School of Marine and Atmospheric Science (USA)
RSP  Red Sea Program on Marine Sciences
RV  Research Vessel
SADC  South African Development Countries
SADC  South African Development
SAMSS  South African Marine Sciences Symposium
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
<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
<th>University/Institution</th>
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<tbody>
<tr>
<td>SCOR</td>
<td>Scientific Committee on Oceanic Research</td>
<td>Universitat Autónoma de Barcelona</td>
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<tr>
<td>SEACORM</td>
<td>Southeast Asia Centre for Ocean Research and Monitoring</td>
<td>United Arab Emirates University</td>
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<td>SECTAM</td>
<td>Secretaria do Meio Ambiente - environmental ministry of the state of Pára (Brazil)</td>
<td>Universitas Bung Hatta (Indonesia)</td>
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<tr>
<td>SECYT</td>
<td>Secretaria de Ciencia y Tecnica (Argentina)</td>
<td>University of Cape Coast (Ghana)</td>
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<tr>
<td>SEQUA</td>
<td>Stiftung für wirtschaftliche Entwicklung und berufliche Qualifizierung</td>
<td>Universidad de Costa Rica</td>
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<td>SFAS</td>
<td>Segmented Flow Analysing System</td>
<td>Universidade Estadual do Norte Fluminense (Campos dos Goytacazes, Brazil)</td>
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<td>SFB</td>
<td>Sonderforschungsbereich</td>
<td>Universidade Federal de Fluminense (Niteroi, Brazil)</td>
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<tr>
<td>SHIFT</td>
<td>Studies on Human Impact on Forests and Floodplains in the Tropics</td>
<td>Universidade Federal da Pará (Belém, Brazil)</td>
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<tr>
<td>SICSS</td>
<td>Shanghai International Conference on Social Science</td>
<td>Universidade Federal de Alagoas (Maceió, Brazil)</td>
</tr>
<tr>
<td>SIOSOA</td>
<td>Second Institute of Oceanography (SOI) under the State Oceanic Administration (SOA) (PR. China)</td>
<td>Universidade Federal do Ceará (Fortaleza, Brazil)</td>
</tr>
<tr>
<td>Sim-Coas</td>
<td>Coastal Management Expert System (computational model)</td>
<td>Universidade Federal de Pará (Belém, Brazil)</td>
</tr>
<tr>
<td>SIRRO</td>
<td>Siberian River Runoff</td>
<td>Universidade Federal de Sergipe (Brazil)</td>
</tr>
<tr>
<td>SKLEC</td>
<td>State Key Laboratory of Estuarine and Coastal Research (Shanghai, P.R. China)</td>
<td>Zentrum für Umweltforschung und Umwelttechnologie (Bremen)</td>
</tr>
<tr>
<td>SKLEC-ECNU</td>
<td>State Key Laboratory of Estuarine and Coastal Research (SKLEC), at the East China Normal University (ECNU) (Shanghai, P.R. China)</td>
<td>Umweltforschungszentrum Leipzig-Halle GmbH</td>
</tr>
<tr>
<td>SOA</td>
<td>State Oceanic Administration</td>
<td>University of Indonesia (Indonesia)</td>
</tr>
<tr>
<td>SOLAS</td>
<td>Surface Ocean Lower Atmosphere Study</td>
<td>UK Ocean Acidification Research Programme</td>
</tr>
<tr>
<td>SP</td>
<td>Sonderstipendienprogramm</td>
<td>Universidade Luterana do Brasil (Brazil)</td>
</tr>
<tr>
<td>SPACES</td>
<td>Science Partnership for the Assessment of Complex Earth System Proses</td>
<td>United Nations</td>
</tr>
<tr>
<td>SPICE</td>
<td>Science for the Protection of the Indonesian Coastal Ecosystems</td>
<td>Universidad Nacional de Costa Rica (Costa Rica)</td>
</tr>
<tr>
<td>SSC</td>
<td>Scientific Steering Committee</td>
<td>University Nacional Agraria La Molina (Costa Rica)</td>
</tr>
<tr>
<td>SUCOZOMA</td>
<td>Sustainable Coastal Zone Management (Sweden)</td>
<td>University of Namibia</td>
</tr>
<tr>
<td>SUSANET</td>
<td>Sustainable Aquaculture Network</td>
<td>Universidad Nacional Autónoma de Nicaragua-León (Nicaragua)</td>
</tr>
<tr>
<td>TeLa GmbH</td>
<td>Technische Lebensmittel und Umweltanalytik</td>
<td>United Nations Convention on Biodiversity</td>
</tr>
<tr>
<td>TROPICOAST</td>
<td>Datenbank für tropische Küstenforschung</td>
<td>United Nations Convention on Environment and Development</td>
</tr>
<tr>
<td>TUVA</td>
<td>United Lands of Neighbours for the Environment (Costa Rica)</td>
<td>United Nations Environmental Programme</td>
</tr>
<tr>
<td>TZ</td>
<td>Technische Zusammenarbeit</td>
<td>Global Programme of Action for the Protection of the Marine Environment from Land-based Activities</td>
</tr>
<tr>
<td>TTZ</td>
<td>Technologie-Transfer-Zentrale</td>
<td></td>
</tr>
</tbody>
</table>

**List of Acronyms**
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UNESCO United Nations Educational, Scientific and Cultural Organization

UNHAS University of Hasanuddin (Indonesia)

UnivB Universität Bremen

UNMdP Universidad Nacional de Mar del Plata (Argentina)

UNRI University of Riau (Indonesia)

UNS Universidad Nacional del Sur (Argentina)

UNSOED Universitas Jenderal Soedirman (Indonesia)

UNSRAT Sam Ratulangi Universität in Manado (Indonesia)

UNSW University of New South Wales (Australia)

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 Landnutzungsforschung (Müncheberg)

ZARM Zentrum für angewandte Raumfahrttechnik und Mikrogravitation

ZEW Zentrum für Europäische Wirtschaftsforschung (Mannheim)

ZMAW Zentrum für Marine und Atmosphärische Wissenschaften (Hamburg)

ZMK Zentrum für Meeres- und Klimaforschung (Hamburg)

ZMT Leibniz-Zentrum für Marine Tropenökologie GmbH (Leibniz Center for Tropical Marine Ecology)

ZWE Zentrale Wissenschaftliche Einrichtung (Bremen)