

# Three-Year Report 2006-2008



Research  
Capacity Building  
Coordination

**zmt**  
Leibniz Center for  
Tropical Marine  
Ecology

# Three-Year Report 2006-2008

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## Imprint

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# Introduction





The period of reporting saw the second evaluation of the ZMT by the German Council of Science and Humanities (Wissenschaftsrat) and its recommendation for the ZMT to be accepted as a member of the Leibniz Association. The final decision on this was taken by the Bund-Länder Kommission in October 2007. The ZMT became an associate member of the Leibniz Association in October 2007 and is a full member since January 2009. The membership was accompanied by a change in the legal status of the ZMT and included a modification of its name to “Leibniz Center for Tropical Marine Ecology” (Leibniz-Zentrum für Marine Tropenökologie GmbH – ZMT). The ZMT is currently in the process of establishing an institutional structure that takes into account the recommendations of the Science Council based on its evaluations. It involves changes in the scientific and organizational structure of the ZMT, the recruitment of new personnel as well as the acquisition of additional space and new infrastructure.

Immediately after the evaluation, two new professorships were installed in cooperation with the University of Bremen in the fields of marine botany and social sciences. The cooperation agreement with the University is to

last for a period of three years. The status of these professorships will be reexamined after an evaluation during 2009-2010. In 2008, the Center advertised four additional new professorships: two of which concern reef ecology and biogeochemistry (in cooperation with the University of Bremen), the other two ecological modeling and social sciences (in cooperation with the Jacobs University Bremen). Joint appointment committees for the positions are expected to complete their work by the end of 2009.

The increasing demand for work space associated with these developments is being met by renting an additional floor in the annex and by constructing a three-story extension to the annex for laboratory and office space. The construction is expected to be completed by the end of 2009, on time for the recruitment of new research groups associated with the newly advertised professorships.

Meanwhile, the ZMT continued to implement its long-term joint research projects in cooperation with universities and research institutions in Indonesia, China, southern Africa, and Vietnam. These projects addressed issues related to the use and protection of coastal and marine systems and collected

scientific information needed for the development of integrated coastal management strategies. The research has contributed to enhance our understanding, for example, of marine biodiversity in tropical waters, the link between coastal degradation and human health, possible responses of coral reef ecosystems to thermal stress under various nutrient regimes as well as of the impact of peat-soil degradation on aquatic systems in the tropics.

The ZMT's research efforts were accompanied by joint measures with our partners to foster capacity building in the field of marine sciences. Thus, it continued to contribute to the English language Master's program offered at the University of Bremen, ISATEC (International Studies in Aquatic Tropical Ecology). Together with the Leibniz Institute for Marine Sciences in Kiel, the ZMT coordinates the implementation of a Master's course in marine sciences at the Universities of Bremen and Kiel and the Ocean University in Qingdao, China. The Center also organized summer schools and special training courses in China, Indonesia, and Vietnam under ongoing projects. Through the German Operational Center of the International Ocean Institute, hosted by the ZMT, the ZMT participated in the development of a course in fisheries science in Papua New Guinea.

The ZMT is currently involved in the development of new long-term projects in the regions of southern Africa and China. These efforts are based on discussions with new partners during the visits of delegations of the Federal Ministry for Education and Research (BMBF) to South Africa, Namibia, and China. In the region of southern Africa, a new project (DESIGN – Desert-Sea Interactions in the Ecology and Biogeochemistry of the Namibian Coastal Waters) was developed in cooperation with the University of Namibia and its Marine Research Centre (SANUMARC) in Henties Bay. It is a contribution to the BMBF's Earth System Research Initiative "The Southern Africa Research Alliance", involving many institutions in Germany and southern Africa. In China, the ZMT is taking part in projects within the overall initiative on "Central Asia: Monsoon Dynamics and Geoeosystems". Close cooperation

is also envisaged with the Institute of Marine Sciences of the University of Dar Es Salaam in Zanzibar, Tanzania, where the impact of changes in the East African monsoon on coastal ecosystems is the focus of research.

Bilateral activities of the ZMT formed an important contribution to the work of international organizations such as the IOC-UNESCO (Intergovernmental Oceanographic Commission of the UNESCO) and SCOR (Scientific Committee on Problems of the Environment), especially in the field of capacity building. The ZMT continued its cooperation with the NAM S & T Centre under the joint fellowship program facilitating short-term stays for young scientists from developing countries to work at the ZMT's laboratories in Bremen. Its network of institutions in Asia ACEMON (Aquatic Ecosystems of Monsoon Asia) exchanged information on coastal research during its annual meetings.



The ZMT was also a partner in organizing several regional, national, and international events, such as the World Ocean Conference in Manado, Indonesia, the German exhibition "Germany and China – Moving Ahead Together" in Guangzhou, the presentation of the MADAM project at the Fiema exhibition in Brazil, the "Joint NAM S&T – ZMT Workshop on Coastal Ecosystems: Hazards

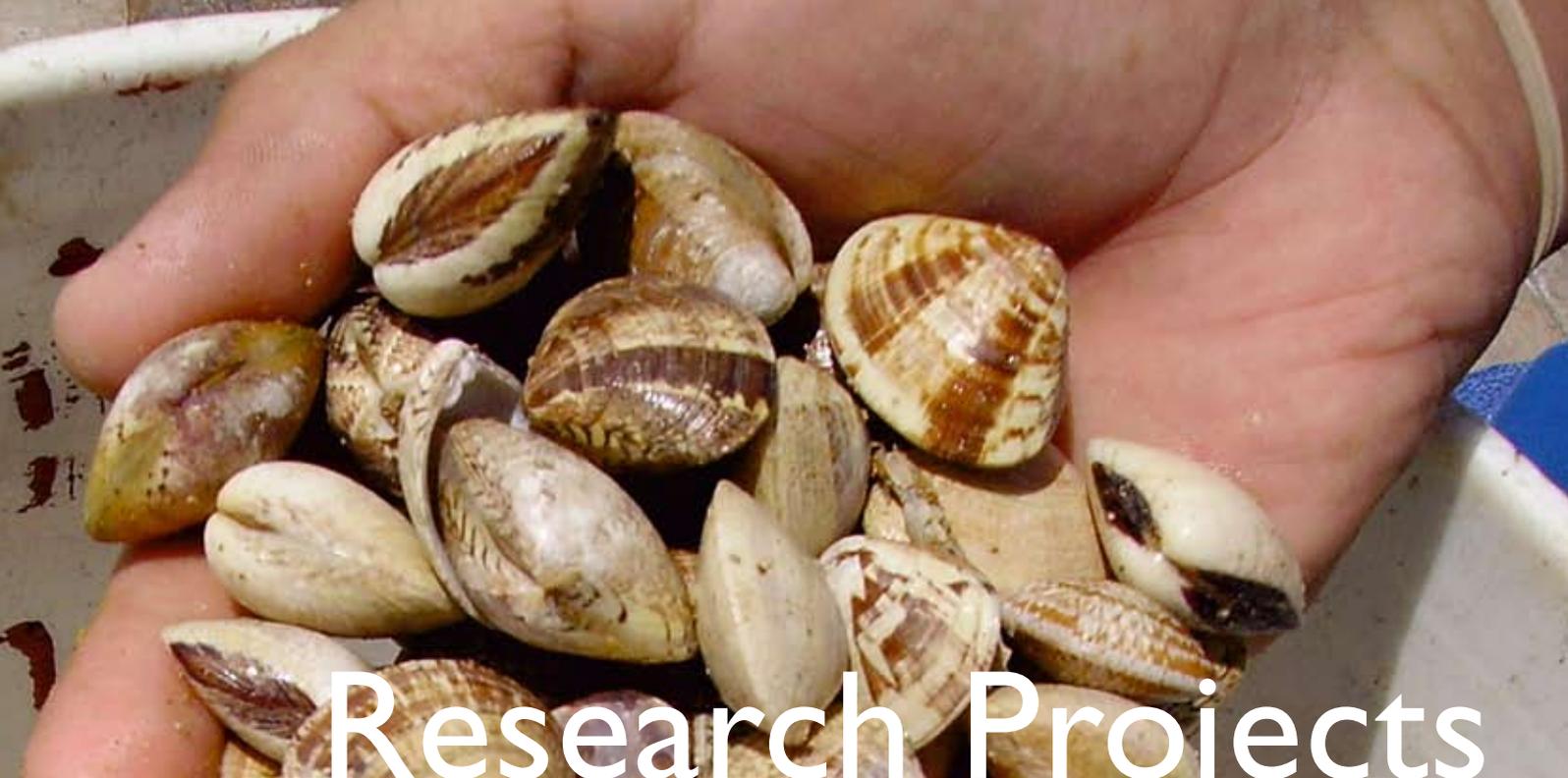


Management and Rehabilitation” in Purwokerto, Indonesia, the European Coral Reef Conference in Bremen, a workshop on semi-enclosed basins jointly with SCOR, SCOPE and IAPSO at the Hanse Wissenschaftskolleg in Delmenhorst, and a lecture series plus exhibition for the public in Bremen within the “Year of the Reef” activities.

Overall, the ZMT continued to develop while strengthening its research and capacity building capabilities, thereby taking into account the recommendations of the German Council of Science and Humanities. Its efforts were supported by the State of Bremen and the Federal Ministry for Education and Research. We are particularly grateful to the support and help we received from our partner institutions in the tropics in this regard.



The ZMT maintains a global network of partners in tropical countries with which it conducts its research and capacity building activities. The map shows countries with which the ZMT has been conducting research projects during the reporting period.



# Research Projects

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# Science for the Protection of Indonesian Coastal Ecosystems – SPICE

2003-2010 DURATION

Indonesia COUNTRY

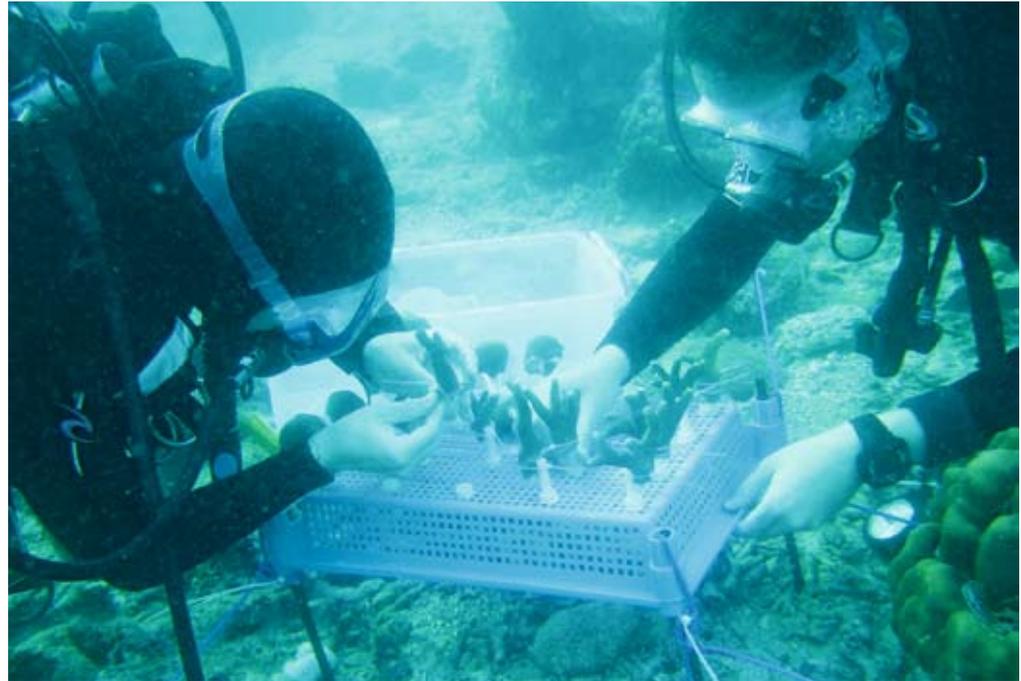
MAIN PARTNERS

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

BMBF FUNDING

DETAILS

Integrated project with six subprojects, coordinated by the ZMT



The ZMT coordinates SPICE, the bilateral German-Indonesian research project that addresses the scientific, social and economic aspects of the protection and sustainable use of Indonesian coastal waters and their resources. The SPICE Program was initiated in 2003, with the first phase carried out in 2003-2007. It provided significant information on the structure and function of coastal ecosystems covering mangroves, coral reefs, coastal pelagic systems, and peat swamps, and on their alterations due to human interventions. These results have already found their way into management strategies currently being developed by the regional planning authorities.

Phase II started in 2007 and will last until 2010. Based on the information and experience gained in the first phase, the focus on natural sciences is complemented by social science. The aims are to better understand the social dimension of coastal ecosystem changes, analyze social-ecological dynamics, and improve the links between research and decision-making.

In four of the six research clusters within SPICE, the ZMT also conducts its own research with partners in Indonesia:

## Coral Reef-Based Ecosystems and Resources

The work is being carried out in coral reef ecosystems and adjacent sea grass meadows in South Sulawesi, which are influenced by

dynamite fishing and land-based pollution. The work on reef ecosystems has been extended to include aspects of marine botany. After a survey of the dominant microalgae on the reefs, the photosynthetic characteristics were determined along gradients in depth and anthropogenic impact. This information forms the basis of ongoing experimental work related to the impact of eutrophication and to mechanisms of physiological adaptation to combined abiotic stress factors.

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

The principal aim is to establish a biogeochemical, ecological, and social scientific data base for the sustainable use of the largest mangrove ecosystem on the island of Java. Seasonal measurements are being made of biogeochemical and ecological processes in the lagoon. Because of their role in the internal recycling of carbon and nutrients in mangroves and tidal flats, benthic communities are receiving special attention. The project also succeeded in establishing links to authorities and stakeholder groups. The work will continue in close cooperation with the socioeconomic group at the ZMT.

## Transfer of Natural and Anthropogenic Material from Land to Coastal Sea

Indonesia holds the largest share of tropical peat lands worldwide which is strongly

affected by deforestation and drainage. Our study in the Siak River, Sumatra, aims at identifying and quantifying environmental impacts of peat soil leaching on the 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, which will allow to ascertain the representativeness of previous results.

### **Biogeochemical Fluxes in the Indonesian Seas**

This project investigates 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 yield. Also, carbon dioxide emissions from the upwelling system are strongly controlled by freshwater introduced by small rivers during the wet season. Further studies will examine the functional relationships between the strength of the biological pump and the freshwater discharge in upwelling systems.

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

The aim of this project is to develop an automatic measuring system for the assessment of water quality in the Madura Strait. The ZMT participates in the project through the collection of spatio-temporal datasets on the impact of the influx of nutrients and organic substances from the Brantas River on the water quality of the Madura Strait.

### **Governance and Management of Coastal Social-Ecological Systems**

The project will examine the social and economic aspects of the use of resources associated with the mangrove and coral reef ecosystems in Indonesia. It will concentrate on two SPICE research regions where preliminary information from natural science projects is available: Spermonde Archipelago in Sulawesi and Segara Anakan Lagoon in Java.



# Land-Sea Interactions in Coastal Ecosystems of Tropical China – LANCET

**2006-2009 DURATION**

**China COUNTRY**

**MAIN PARTNERS**

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

**BMBF FUNDING**

**DETAILS**

Integrated project with 5 subprojects, coordinated by the ZMT

LANCET examines the role of land-sea fluxes on tropical coastal ecosystems of the Chinese island of Hainan. The results are expected to provide detailed scientific information on a tropical system that has been poorly studied. Furthermore, they will make a contribution to the current initiatives of the Hainan government by providing the necessary scientific database for developing adequate coastal management strategies. The LANCET studies are being conducted in 5 subprojects, 3 of which are being led by ZMT scientists. The overall coordination of the project is also with the ZMT.



fishes. 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.

## Fluxes and Transformation of Nutrient and Organic Matter from Watershed to the 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 an increased release of sediments, nutrients, and pollutants into coastal waters. Sewage effluents change the natural pattern of riverine carbon and nutrient fluxes. Riverine and estuarine environments as well as seagrass beds along the coast are being investigated with a view to assessing the impact of land-based activities.



## Current Status and Regulatory Functions of Hainan Coral Reefs

Once flourishing coral reefs of Hainan are coming under increasing pressure from sweeping 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 are being studied. In all coral types, water and zooplankton samples are collected to assess the quality of the ambient environment.

## Status of Shallow-Water Fish Assemblages

Tropical shallow-water habitats function as important nursery and feeding grounds for



## Ecosystem Functioning of Rehabilitated Versus Natural Mangroves in the Can Gio Reserve

This project investigates the question whether reforested mangroves are comparable in terms of function and structure with natural mangrove forests, by studying the biogeochemistry and ecology of benthic organisms. The first phase of the project ended in 2007.

A second phase has been approved by the DFG for a period of two years. It investigates the regeneration of mangrove forests that were damaged by cyclones and lightning within the context of the implemented management practices.



- **DURATION** 2004-2009
- **COUNTRY** Vietnam
- **MAIN PARTNER** Vietnam National University
- **FUNDING** DFG
- **DETAILS** Subproject of the integrated project "Land-Ocean Atmospheric Interactions in the Coastal Zone of Vietnam", coordinated by the ZMT

## Ocean-Reef Coupling in the Andaman Sea – ORCAS

The project investigates the oceanic processes that affect the turnover of material and energy in offshore coral reefs of the Andaman Sea. Of particular interest are internal ocean waves of enormous amplitude (80 m) and their impact on the material and energy cycling of the coral reefs. The work is being carried out by Ph. D. students who

investigate the impact of temperature and pH changes on calcification and on the primary and secondary production in the reef system. Since the principal investigator changed to the AWI in Bremerhaven in 2008, the project is now being conducted from there, while the ZMT offers support to the students for their research.

- **DURATION** 2006-2009
- **COUNTRY** Thailand
- **MAIN PARTNER** Phuket Marine Biological Center
- **FUNDING** DFG



## Investigation of the Spatial Connectivity of Fish Populations between and to Estuarine and Coastal Habitats

2006-2009 **DURATION**  
Brazil **COUNTRY**  
**MAIN PARTNERS**  
Universities of Belem  
and Recife  
IB/BMBF **FUNDING**

Offshore populations of the weakfish *Cynoscion acoupa* are being investigated using chemical fingerprints from otoliths and genetic markers to determine the spatial connectivity of the fish between estuaries along the northeast Brazilian coast. An improved

understanding of recruitment processes will aid in the urgent need for a better management of the heavily exploited fish stocks. Connectivity between estuarine and coastal habitats is quantified for the first time for *C. acoupa*.

## Investigation of the Distribution of Zooplankton and Ichthyoplankton in the Angola-Benguela Frontal System

2008 **DURATION**  
Namibia, South Africa **COUNTRIES**  
**MAIN PARTNERS**  
University of Bremen, Marine and  
Coastal Management Institute  
(Cape Town)  
IB/BMBF **FUNDING**

The ZMT's long-term cooperation with South Africa and Namibia was continued with focus on the Angola-Benguela Frontal System. A major event was the expedition of the Maria S. Merian to the region. The aim was to trace the development of communities in upwelling cells and to conduct physiological studies on organisms to obtain information on their adaptation to changing environmental conditions. This work is to be continued within the framework of the BMBF Project "GENUS", which will be funded early in 2009.



## River Inputs and their Impact on Reef Ecosystems along the Coast of Central Vietnam

The project studies the flux and seasonal variability of suspended matter, sediments as well as carbon and nutrient elements, and their possible impact on the reef ecosystems of central Vietnam. Processing long-term data sets in conjunction with those obtained from the measurements being made within

this project is a major goal. Sediment and nutrient investigations were carried out and water and reef samples collected in two regions. To observe changes in coral growth and environmental conditions, markings and loggers were placed which allow observations to proceed for up to 2 years.



- **DURATION** 2006-2009
- **COUNTRY** Vietnam
- **MAIN PARTNER** Institute of Oceanography (Nha Trang)
- **FUNDING** IB/BMBF



## Role of System Biogeochemistry on the Distribution and Abundance of *Vibrio*-organisms in the Karnaphuli River Estuary, Bangladesh – BIOVIBAN

This one-year project investigates the interactions between hydrochemical dynamics of tropical estuaries and cholera outbreaks in the region. The project contributes towards a better understanding of the distribution of *Vibrio cholerae* in coastal ecosystems and the observed cyclicality in cholera outbreaks related to hydrology and climate. Based on the results obtained, a new proposal is being submitted to the DFG.



- **DURATION** 2007-2008
- **COUNTRY** Bangladesh
- **MAIN PARTNER** International Centre for Diarrhoeal Diseases Research
- **FUNDING** DFG

## Climate Variability and El Niño Southern Oscillation: Implications for Natural Coastal Resources and Management – CENSOR

2004-2008 DURATION

Peru COUNTRY

MAIN PARTNER  
National Agrarian University (Lima)

EU FUNDING

DETAILS

Integrated project with 14 participating institutions from Germany, France, Spain, Chile, Peru and Argentina, coordinated by AWI, Bremerhaven

CENSOR is an interdisciplinary research project, which aims at assessing and modeling the impact of climate variability induced by El Niño on the Humboldt Current Large Marine Ecosystem and its species assemblages and resource users. The ZMT is responsible for the data integration, dissemination, and modeling with different approaches, like trophodynamic models which describe holistically the biomass flow structure of the ecosystem and simulate use scenarios. Workshops, symposia, and post graduate training courses were organized for data dissemination and integration. The project scientists were also involved in the development of a management plan for coastal resources in northern Peru. The concluding workshop of this project was held in September 2008.



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

2006-2009 DURATION

Brazil COUNTRY

MAIN PARTNER  
Fluminense Federal University (Niteroi/ Rio de Janeiro)

BMBF FUNDING

DETAILS

Subproject of the integrated project "POLCAMAR –The Impact of Pollutants from Sugar Cane Monoculture on Estuaries and Coastal Waters of Northeast Brazil", coordinated by the University of Bremen

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 east Brazilian coastal waters.



## Environmental Assessment in Tsunami-affected Andaman Islands, India

This project aims to study the impact of climate and extreme events on coral reefs adjacent to the Andaman Islands. Several visits to the Andaman Marine National Park showed considerable degradation differences between reefs found at the National Park and

outside the Park, where strong erosion suggests that reef degradation started years ago and cannot be related to the December 2004 event. The ZMT investigates coral cores retrieved from both areas.

- **DURATION** 2005-2008
- **COUNTRY** India
- **MAIN PARTNER** Institute of Ocean Management (Chennai)
- **FUNDING** IB/BMBF

## Development of Feed and Quality Improvement for Tropical Shrimps

The experiments in this project were related to the fish feed and biomonitoring of the shrimp *Litopenaeus vannamei*. The aim was the development of special shrimp feed containing various amounts of total protein and a reduced amount of fishmeal, a major protein source in commercial shrimp feed. Fish protein was replaced by plant protein

derived from soya, lupine, peas, etc. Tests conducted with cheaper substances such as grain distillery waste showed that additives could enhance its uptake and assimilation rates. The research results are currently being used by the industrial project partner to build a pilot plant for feed production.

- **DURATION** 2004-2008
- **MAIN PARTNERS** Polyplan GmbH, Algattec (Bremen), Institut für Getreideverarbeitung GmbH (Potsdam)
- **FUNDING** Bremer Innovationsagentur, AG industrieller Forschungsvereinigungen



## High-PUFA Algae

2008-2010 DURATION

MAIN PARTNERS

AquaCare GmbH (Dortmund),  
Ceramics (Bremen),  
TeLa GmbH (Bremerhaven)

FUNDING

AG industrieller  
Forschungsvereinigungen

The project aims at the optimization of the production of polyunsaturated fatty acids by conducting experiments with a variety of algae and varying the environmental and production conditions. Within the project, the ZMT will cooperate with new partners from the industry, e.g. Aquacare-Herten, Tela-Bremerhaven, and Ceramics-Bremen.



## Breeding and Rearing of Ornamental Organisms under Controlled Conditions

since 2004 DURATION

MAIN PARTNERS

University of Bremen,  
Ecomaris GmbH (Büsum)

FUNDING

ZMT, Bremer Innovationsagentur

The purpose of this project is to promote conservation of the coral reefs by breeding selected ornamental species and thus avoiding wild catches. The work focuses on three areas: water quality management, broodstock management, and nutritional research. Experiments concentrated on clownfishes, 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 animal growth. The production of live feed (Artemia, Rotaria, copepods and algae) for the rearing of larvae is being continuously optimized.





# Featured Research

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## Collapse of a New Living Species of Giant Clam in the Red Sea

Claudio Richter  
Hilly Roa-Quiaoit  
et. al.

Giant clams belong to the most spectacular but also the most endangered marine invertebrates. The large size of giant clams – their shells can measure up to 1.4 m - is due to microalgae living in very high densities in the colorful clam mantle tissues. They provide the energy to precipitate the large amounts of calcium carbonate composing the shell. In many places, their large size and easy accessibility was the reason for overfishing and the

depleted stocks and thus contribute to the conservation of genetic resources in the Red Sea.

Morphology has been the foundation of taxonomy for centuries but has often failed to delineate between species with overlapping and variable phenotypes. The incorporation of molecular and ecological data has greatly sharpened our ability to draw species boundaries. *T. costata* features a deeply folded, almost zig-zag dorsal shell margin, while its two Red Sea congeners show only weakly sinusoidal margins. We quantified the morphological similarities by five morphological parameters. Analysis of similarity showed a highly significant separation of *T. costata* from the other two species. The morphological differences were corroborated by phylogenetic analysis of molecular data. With a fragment of the mitochondrial rRNA gene, we found a clear delineation between *T. costata* and its sympatric congeners, but virtually no difference between replicate specimens, supporting monophyly of *T. costata*.

Although seasonal times of reproduction are not diagnostic features per se and may vary between years and regions, we found marked differences between the Red Sea species: *T. costata* differed from its congeners in an early and only brief reproductive period in spring, coinciding with the seasonal plankton bloom. The timing of reproduction suggests a planktotrophic development of the larvae, contrasting the food-independent larval development in the summer-spawning *T. squamosa* and *T. maxima*.

*T. costata* represents less than 1% of the present stocks. Underwater surveys carried out in the Gulf of Aqaba and northern Red Sea showed that *T. costata* must be considered as critically endangered. Only six out of a thousand live specimens belonged to the new species. Overall, *Tridacna* stocks have plummeted to less than 5% of their sizes in the 1980s and 1990s because of artisanal reef-top gathering for meat and shells. As opposed to *T. maxima* and *T. squamosa*, which have a broad vertical range of distribution, *T. costata* is restricted to the reef top. This fact, along with its narrow reproductive window and plankton-dependent larval development, make *T. costata* particularly vulnerable to overfishing.



collapse of the natural stocks. The diversity of giant clams is extremely low, only seven extant species of *Tridacna* are known.

Our studies within the “Red-Sea Ornamentals Program” provided evidence for a morphologically, genetically, ecologically, and paleoecologically distinct new species of giant clam in the Red Sea: *Tridacna costata*. Its oversight in one of the best-investigated reef provinces illustrates the dearth of knowledge on marine biodiversity. The Red Sea program was initiated in cooperation with the Marine Science Station at Aqaba in 2002. Its goal was to study the life cycle of giant clams with the prospect of breeding them in order to supply the growing aquarists’ demand for the prized blue *T. maxima*, and possibly also re-stock the



One of the striking features of the Red Sea is that, in many places, one can time-travel into the past by means of exposed coral-reef terraces towering up to tens of meters above the present-day sea level. We carried out surveys along the shores and well-dated emerged reef terraces of Sinai and Aqaba, showing that *T. costata* constituted more than 80% of the giant clam stocks prior to the last interglacial (125,000 years ago), after which its proportion plummeted to less than 5% in freshly discarded shell middens.

The wealth of paleolithic artifacts in emerged reef terraces in the southern and central Red Sea indicates that modern humans have been exploiting Red Sea mollusks for at least 125,000 years. Shells matching our description were also among the fossils in other Red Sea areas, suggesting that the new species, by virtue of its dominance, conspicuousness, size, and accessibility, has played an important role in the diet of human gatherer communities during the last interglacial.

Along with early shellfishing evidence in other areas, this has spurred speculation that the dispersal of anatomically modern humans out of Africa into the Red Sea and adjacent regions 100,000 years ago was driven largely by competition for marine resources. Our discovery that *T. costata* was already on a

trajectory of decline prior to this period provides the first circumstantial evidence that humans were not only using but also depleting reef resources. Declining marine and terrestrial resources, by human and climatic factors, respectively, may have acted in concert to thwart the precocious but short-lived colonization of the Near East by anatomically modern but technologically primitive humans at the end of the last interglacial.



#### PUBLICATIONS

Richter, C., Roa-Quiaoit, H., Jantzen, C., Al-Zibdah, M., Kochzius, M. (2008). *Collapse of a new living species of giant clam in the Red Sea*, *Current Biology*, 18(17), 1349-1354.

Roa-Quiaoit, H., (2007) *The Ecology and Culture of Giant Clams (Tridacidae) in the Jordanian Sector of the Gulf of Aqaba, Red Sea*, PhD Thesis

## Links between Coastal Processes and *Vibrio Cholerae* Dynamics in the Indian Subcontinent: Seasonality and Relation to Cholera Incidence

Ruben Lara



Water-driven diseases such as cholera are still an important cause of morbidity and mortality in many developing countries in Asia, Africa, and Latin America due to the lack of safe water supply and poor hygienic practices. The current cholera pandemic, which started in 1961, is the most extensive in geographic spread and duration. During 1994, cholera epidemics were reported from over 90 countries. The bacterium *Vibrio cholerae* is the causative agent of cholera. *Vibrios* are aquatic bacteria of marine and estuarine origin. They can also cause diseases in fish, shrimp, corals, and other aquatic organisms.

In tropical areas, coastal ecosystems and their basins are rapidly changing due to anthropogenic pressure and global warming. Thus, in such health-related issues, basins must be the natural units for vulnerability assessment and coastal management. Integrative, comparative approaches are needed for the understanding of functional links between the morphology of different estuaries, marshes, and mangroves, flooding and biogeochemical regimes, pathogen life cycles, and the incidence of disease.

There are converging approaches in the investigation of tropical marine ecosystems and human diseases. These include the research on the same bacterial genus (*Vibrio*) which is responsible for both coral bleaching and cholera, the use of remote sensing of the ocean-surface temperature, climate research, and an emerging, epidemiological thinking common to these approaches. Traditionally, the association between water temperature and coral bleaching has been stressed, and only recently it has been discovered that this is probably triggered by a *Vibrio* bacterium - and that it could be transmitted by a coral-feeding worm acting as “vector”.

On the other hand, the study of cholera disease has drifted into marine and estuarine research. The association of *V. cholerae* with plankton has been established only recently, allowing an analysis of the epidemic patterns of cholera. Since the zooplankton has been shown to harbor the bacterium, and zooplankton blooms follow phytoplankton blooms, remote sensing can be employed to

determine the relationship of cases of cholera with chlorophyll, as well as sea-surface temperature, ocean height, nutrients, salinity, and turbidity. The sporadic appearance of cholera epidemics can now be at least partly related to climate-ocean coupling events, such as the “El Niño phenomenon”.

The detection of reservoirs like mangroves, marshes, or corals, where these and other potentially dangerous microorganisms can prosper, represents a huge potential for promoting interactions between tropical coastal research and biomedical science. For the last three years, the ZMT has been carrying out a cooperation with the International Centre for Diarrhoeal Diseases Research in Dhaka, Bangladesh, studying the relationship between the biogeochemistry of estuaries and wetlands, and the abundance and diversity of *Vibrio* organisms. Furthermore, we investigate the effect of climatic catastrophic events such as cyclones and landslides on the abundance of pathogenic bacteria in estuaries. An upcoming cooperation project with the National Institute of Cholera and Enteric Diseases in Kolkata, India, will continue and extend this approach to other large estuaries which are affected by dams and pollution.

There is an increasing awareness of the need of enhancing interdisciplinarity in biomedical research, particularly through the integration with environmental sciences. Cholera and other water-driven diseases are not an exclusive problem of developing and/or tropical countries. There have been cholera epidemics in Europe until the beginning of the 20<sup>th</sup> century. More recently, there have been reports of skin infections in swimmers produced by *Vibrio* organisms in Sweden (seawater) and The Netherlands (freshwater). Slight changes of environmental factors such as water temperature, pH, or nutrient content can dramatically change the amount and diversity of the microbial community. Thus, increased efforts are required to detect these changes in an early stage to avoid the spread of the disease.

### PUBLICATION

Lara, R.J., Neogi, S.B., Islam, M. S., Mahmud, Z. H., Yamasaki, S., Nair, G.B. (2009)

*Influence of Catastrophic Climatic Events and Human Waste on Vibrio Distribution in the Karnaphuli Estuary, Bangladesh*, EcoHealth, DOI: 10.1007/s10393-009-0257-6

## Coral Photophysiology in Response to Thermal Stress and Nutritional Status

Esther M. Borell



Coral bleaching, the dissociation of corals and their zooxanthellae (symbiotic unicellular algae) and/or loss of chlorophyll in response to elevated seawater temperature can lead to extensive coral mortality and loss in biodiversity. It is generally accepted that the foremost causes of bleaching involve chronic photoinhibition of zooxanthellae and the subsequent formation of damaging reactive oxygen species. Photoinhibition is coupled to levels of antioxidant activity and rates of protein repair, processes which incur high metabolic costs in terms of nitrogen demands and energy expenditure.

Since heterotrophic abilities of corals can vary considerably between reef habitats and species, understanding how food availability affects the susceptibility of corals to bleaching does provide important information aiding the prediction of the effects of increasing temperature on the coral community structure in relation to water quality. Using different methodological approaches, the objectives of this study were to investigate the prediction that exogenous food increases the thermal tolerance of the symbiotic association. This was tested in two feeding

experiments which were carried out at the Hasanuddin University Marine Field Station in southwest Sulawesi, Indonesia. In both experiments, corals were either starved, i.e. deprived of organic particles or fed daily with freshly hatched brine shrimp nauplii.

The first experiment assessed the effect of zooplankton feeding versus starvation on the bleaching susceptibility, the photosynthetic activity, and the photoprotective mechanism in the temperature-sensitive species *Stylophora pistillata* under elevated temperature. It was carried out over a period of 10 days employing pulse-amplitude-modulated (PAM) chlorophyll fluorometry. The second experiment was run for 15 days in order to investigate the potential interactions between zooplankton feeding, basal metabolic functions (photosynthesis and respiration), energy status (lipid concentrations), total protein concentrations, and the bleaching susceptibility of *S. pistillata* and the more temperature-tolerant species *Galaxea fascicularis*.

As predicted, starved *S. pistillata* in Experiment I displayed strong signs of chronic photoinhibition, which was reflected by the

significant decline in nocturnal recovery rates of photosystem II. This was paralleled by the progressive deterioration of non-photochemical quenching, an important photoprotective mechanism. Fed corals by comparison maintained higher levels of photoprotection, which coincided with significantly higher rates of nocturnal photosystem recovery. Sustained photosynthesis of fed corals was accompanied by a reduced loss in pigmentation compared to starved corals. The tissue of starved corals in both experiments appeared pale relative to fed corals.

The combined results of these experiments indicate that exogenous food can play an important role in reducing the photophysiological damage of zooxanthellae that typically leads to bleaching. Although the results of this study provide no indication of the underlying biochemical mechanisms as to how additional resources could have modulated the thermal resistance of the photosynthetic apparatus, it is conceivable that zooplankton provided a direct source of nitrogen to the zooxanthellae, facilitating enhanced rates of protein repair and reduced photophysiological damage of the zooxanthellae. To verify

this hypothesis, further biochemical and molecular investigations are needed.

Near-shore environments are often characterized by heavy loads of terrestrial discharges of nutrients and sediment, which result in turbid, nutrient-rich waters smothering coral tissues and reducing light penetration, i.e. the key resource of scleractinian corals. As such, turbid waters are commonly considered as a stress factor for corals. Although coral populations can suffer high levels of mortality in regions with high nutrient loads, this is not necessarily always the case. Near-shore fringing reefs frequently feature corals which are adapted to thrive in this type of environment, yielding a high coral cover, growth rates and diversity. Suspended sediment and inorganic nutrients can be rapidly converted into particulate organic material. Against the background of rapid environmental change, turbid coastal environments may therefore buffer the stress susceptibility and enhance the fitness of some coral species. This would have important ecological implications for the persistence and dynamics of coral reef communities in the future.

#### PUBLICATIONS

Borell, E.M., Bischof, K. (2008)  
*Zooplankton feeding sustains photosynthesis in Stylophora pistillata under thermal stress.*  
*Oecologia* 157, 593-601

Borell, E.M., Bischof, K., Yulantri A., Richter, C. (2008)  
*The effect of heterotrophy on photosynthesis and tissue composition of two scleractinian corals under elevated temperature.*  
*Journal of Experimental Marine Biology and Ecology* 364, 116-123



## Tropical Peat Soil Degradation: Impacts on the Aquatic Environment



• **Tim Rixen**  
**Antje Baum**

The exponentially rising population of the world and the growing demand for space, food, energy, etc. are the main drivers of global change which have become so acute that even a new geological epoch, the Anthropocene, was introduced. However, global change has many local facets which need to be analyzed and studied in order to develop sustainable management strategies for each individual region and ecosystem. Southeast Asian peat lands, covering ~10% of the Indonesian land mass, are, for example, a very sensitive ecosystem of global importance regarding the emission of greenhouse gases into the atmosphere, as seen during the strong drought induced by El Niño in 1997. At this time, the peatlands emitted  $1.7 \times 10^{15}$ g of carbon, representing 74% of the global annual mean CO<sub>2</sub> emissions caused by land-use changes. Peat-soil degradation increased dramatically during the last 40 years. If the present rate of deforestation remains constant, ~90 % of the original peat swamp forests will disappear within the forthcoming ~140 years.

The joint Indonesian/German project “Science for the Protection of Indonesian Coastal Marine Ecosystems” (SPICE) aims at studying the environmental impacts of peat-soil degradation on the aquatic ecosystems in eastern Sumatra. The first idea of SPICE was born at an international conference organized by the Indonesian government in Jakarta shortly after the catastrophic forest

and peat fires in 1997. SPICE and the field work in the peatlands started in 2004. During the first phase, the work focused on the Siak River in central Sumatra. In the second phase, the working area was expanded and now includes all the six major peat-draining rivers in eastern Sumatra in order to get a more representative view on environmental changes.

On seven expeditions to the peat-draining rivers water and sediment samples and also peat samples from the catchment soils were taken and analyzed for various parameters, e.g. dissolved organic carbon (DOC), dissolved nutrients and oxygen. Furthermore, experiments on the degradation of dissolved organic carbon were carried out.

Our first data indicate that the Siak owes its brown color to dissolved organic matter (DOM) leached from the surrounding, heavily disturbed peat soils. The DOC concentrations in the Siak are among the highest reported worldwide and are even four times higher than those of the Rio Negro which is often considered as the world’s classical black water river. Extrapolated to the entire Southeast Asian peatlands, our results indicate that the numerous small Indonesian peat-draining rivers contribute approximately 10% to the global riverine DOC export into the ocean - which stores approximately 20% more organic carbon than the terrestrial vegetation including the tropical forests.

#### PUBLICATIONS

Baum, A. (2008)  
*Tropical blackwater biogeochemistry: The Siak River in Central Sumatra, Indonesia.*  
PhD thesis, University of Bremen,  
pp. 121

Baum, A., Rixen, T.,  
Samiaji, J. (2007)  
*Relevance of peat draining  
rivers in central Sumatra for  
riverine input of dissolved  
organic carbon into the ocean.*  
*Estuarine Coastal and Shelf  
Science* 73, 563-570.

Rixen, T., Baum, A., Pohlmann, T.,  
Balzer, W., Samiaji, J., Jose, C.  
(2008)  
*The Siak, a tropical blackwater  
river in Central Sumatra  
on the verge to anoxia.*  
*Biogeochemistry* 90, 129-140.

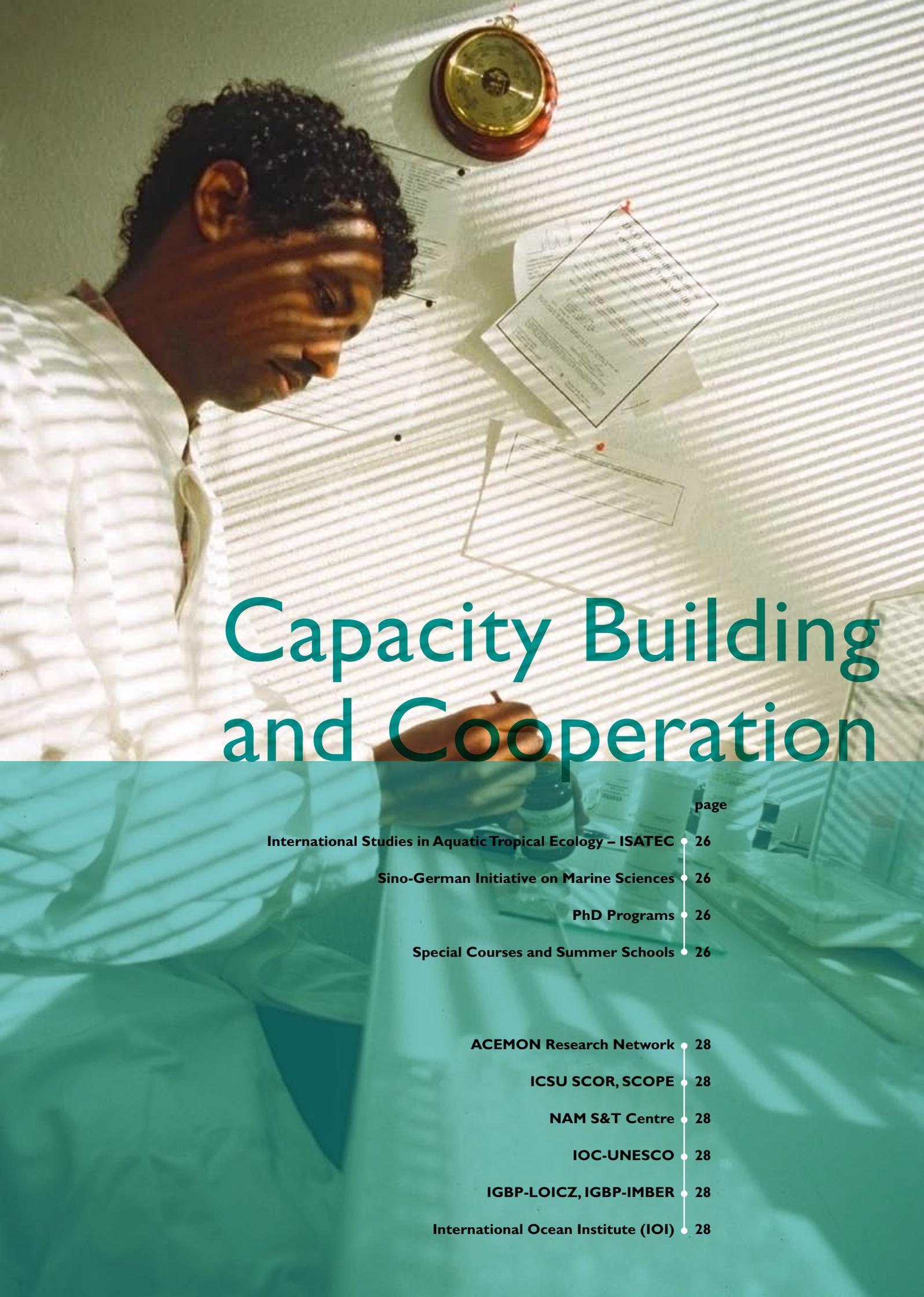
The high DOC concentrations were also associated with high DOC decomposition rates, reducing the oxygen concentrations in the Siak dramatically. Model results indicate that an increase of the DOC concentrations by ~15% could already lead to oxygen-poor (anoxic) conditions in the Siak. The development of these anoxic zones, also called dead zones, can lead to a mass mortality of fish as has already been observed in the Siak. This emphasizes the sensitivity of the Siak to the peat-soil degradation which is assumed to increase DOC concentrations in the rivers.

Eutrophication caused by anthropogenic inputs of dissolved inorganic nutrients is considered to be the main reason of the observed spread of the dead zones in aquatic habitats around the industrial world, and could also be observed in the Siak. In addition to industrial and urban wastewater discharges, agricultural run off played an important role, as was seen during the period of oil-palm fertilization at the end of the rainy season, when an enhanced washout of nitrogen

from the plantations doubled the dissolved inorganic nitrogen concentrations in the Siak. The low light and oxygen levels reduce the photosynthetic production of organic matter and hence the nutrient uptake in the river which, in turn, increases the riverine export of nutrients into the coastal ocean. Nevertheless, despite the anthropogenic impact, the nutrient concentrations and thus their export into the ocean was still much lower than observed elsewhere in non-blackwater rivers because of the low rate of nutrient leaching from the nutrient-poor peat soils.

The results obtained during the SPICE project showed that peat-soil degradation and anthropogenic wastewater discharges strongly affect the ecological balance of the Siak River. Since anthropogenic activities on tropical peat soils are predicted to continue or even increase in the upcoming decades, further studies are needed to improve our understanding of the impact of peat-soil utilization on the very sensitive blackwater ecosystems.



A man with dark curly hair, wearing a white lab coat, is looking towards the right. The background is a wall with a compass and several papers pinned to it. The scene is lit with strong shadows from blinds, creating a striped pattern across the wall and the man's face.

# Capacity Building and Cooperation

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## Capacity Building

The ZMT is involved in teaching at the University of Bremen, giving lectures and courses in ecological, biogeochemical, and socioeconomic subjects. The scientific staff also supervises both internal and external thesis students. In the period from 2006 to 2008, 20 doctoral theses and 16 diploma theses were successfully completed. A total of 34 doctoral theses and 6 diploma theses are currently underway. Furthermore, the ZMT develops joint education programs with partner countries such as China.

Other capacity building activities like specialist training courses, summer schools, and on-the-job training were offered both in Bremen and in partner countries. The ZMT also hosted a number of internships in its laboratories for students and pupils.



### International Studies in Aquatic Tropical Ecology – ISATEC

ISATEC is a two-year international MSc study program on aquatic tropical ecosystems which was jointly set up by the ZMT and Bremen University in 1999. Most of the teaching in the program is done by the ZMT staff. Postgraduates are trained in theoretical and applied tropical aquatic ecology, with emphasis on concepts and methodologies for the sustainable use and conservation of tropical aquatic ecosystems. The program was coordinated by the ZMT until 2007, when the Faculty of Biology of Bremen University took over coordination.

### Sino-German Initiative on Marine Sciences

Activities in this project aim at contributing to the development of an international education and intensifying scientific exchange. Starting in 2005, a Sino-German Master Program in Marine Sciences was jointly developed by the ZMT and other research institutions in Bremen and Kiel, together with the Ocean University of China (OUC) in Qingdao. It offers Chinese and German students a two-term study in specific fields of marine sciences at the partner university abroad, with the possibility of obtaining a MSc Double Degree. The first Chinese students, who spent an academic year in Bremen, have already completed their studies at the OUC and have obtained the Master's degree. A second group of eight students of the University of Bremen have begun studying at the OUC as a part of the program in winter term 2008/09.

Among further activities are annual summer schools intended to strengthen contacts and promote the mutual acquaintance with the teaching methods of each contributing partner. Since 2008, the ongoing cooperation is extended to include PhD programs under an agreement signed between the OUC and the University of Bremen.

### PhD Programs

The ZMT hosts a large number of PhD candidates from its partner countries and Germany, who carry out their thesis research within the ZMT's research projects. During the period of reporting, 20 students completed their doctoral thesis, whereas 34 PhD theses are still in progress. The Center also contributes to the International Graduate School "Global Change in the Marine Realm" established at the University of Bremen in 2007, as a part of the German Excellence Initiative. The Graduate School educates young scientists in a stimulating research environment and enables them to be part of the worldwide effort aimed at dealing with issues of global change early in their doctoral training.

### Special Courses and Summer Schools

Together with scientists from partner institutions, the ZMT conducted special courses from the modular series "The Sea and its Resources" at partner institutions in Brazil,

Indonesia, and Vietnam. In cooperation with the NAM S&T Centre from India, a workshop cum seminar on “Coastal Ecosystems: Hazards Management and Rehabilitation” was conducted in Purwokerto, Indonesia. At the Phuket Marine Biological Centre in Thailand a training course was held on the subject of “Participatory Management in IKZM”.

In the scope of Sino-German cooperation, annual summer schools were organized in Bremen and Kiel (2006), Büsum (2007), and Qingdao (2008), covering the subjects “Impacts of Global Change on Shelf-Open Ocean Systems”, “Processes in Coastal Zones”, and “Oceans under Stress”. Another summer school flanking a conference on „Coastal and Disaster Management for Extreme Events Impact Mitigation“ was conjointly organized by the ZMT and the Center for Coral Reef Research in Makassar, Indonesia.



## Cooperation: Networks and International Organizations

### ACEMON Research Network

The ACEMON (Aquatic Ecosystems of Monsoon Asia) network was established by the ZMT in 2004, with the support of the BMBF. It gives the ZMT and its partner institutions in Asian countries affected by monsoons the opportunity to develop joint research and training activities for an integrated management of their coastal ecosystems. This cooperation involved the publication of results arising from workshops and training courses conducted in Indonesia and Thailand during the previous years. In 2008, the work was focused on developing a special program in the region to study coral reefs, which received approval from the IOC-WESTPAC. Three workshops are planned within the project for the next two years.

### ICSU SCOR, SCOPE

The ZMT contributes with its activities to scientific committees such as SCOPE and SCOR of the International Council for Science (ICSU). The Center hosts the chair of the national SCOPE Committee in Germany and of the new committee on capacity building established by SCOR.

The SCOPE project on the silicon cycle was completed with a publication by Island Press. In 2007, the ZMT also organized, together with SCOPE and SCOR, a workshop on semi-enclosed basins at the Hanse-Wissenschaftskolleg in Delmenhorst. ZMT scientists continued their cooperation with the SCOR working group on hypoxia. Also, the ZMT established new contacts with the ICSU Regional Office for Africa, pursuing the objective of helping to develop capacity in Sub-Saharan Africa. Currently it develops plans to cooperate with the newly established Centre of Excellence for Reef Research at the University of Dar Es Salaam in Zanzibar and the SANUMARC Marine Research Centre in Henties Bay, Namibia.

### NAM S&T Centre

In the scope of its cooperation with the NAM (Non-aligned Movement and Developing Nations) Science and Technology Centre, the ZMT offers within its projects training to excellent young scientists from developing countries in the tropics. As yet, four candidates have been chosen and will stay at the ZMT for three months.

Together with the NAM S&T Centre and Indonesian universities a workshop was organized on "Coastal Ecosystems: Hazards Management and Rehabilitation" in Indonesia.

### IOC-UNESCO

The ZMT participated in the activities of the Intergovernmental Oceanographic Commission of the UNESCO related to capacity building in the WESTPAC (Western Pacific) region. Research projects like SPICE and the ACEMON Network contribute to the enhancement of the marine-research capacity in the WESTPAC (Western Pacific) region. A new project on coral reefs including the ZMT as a partner was initiated by the IOC-WESTPAC.

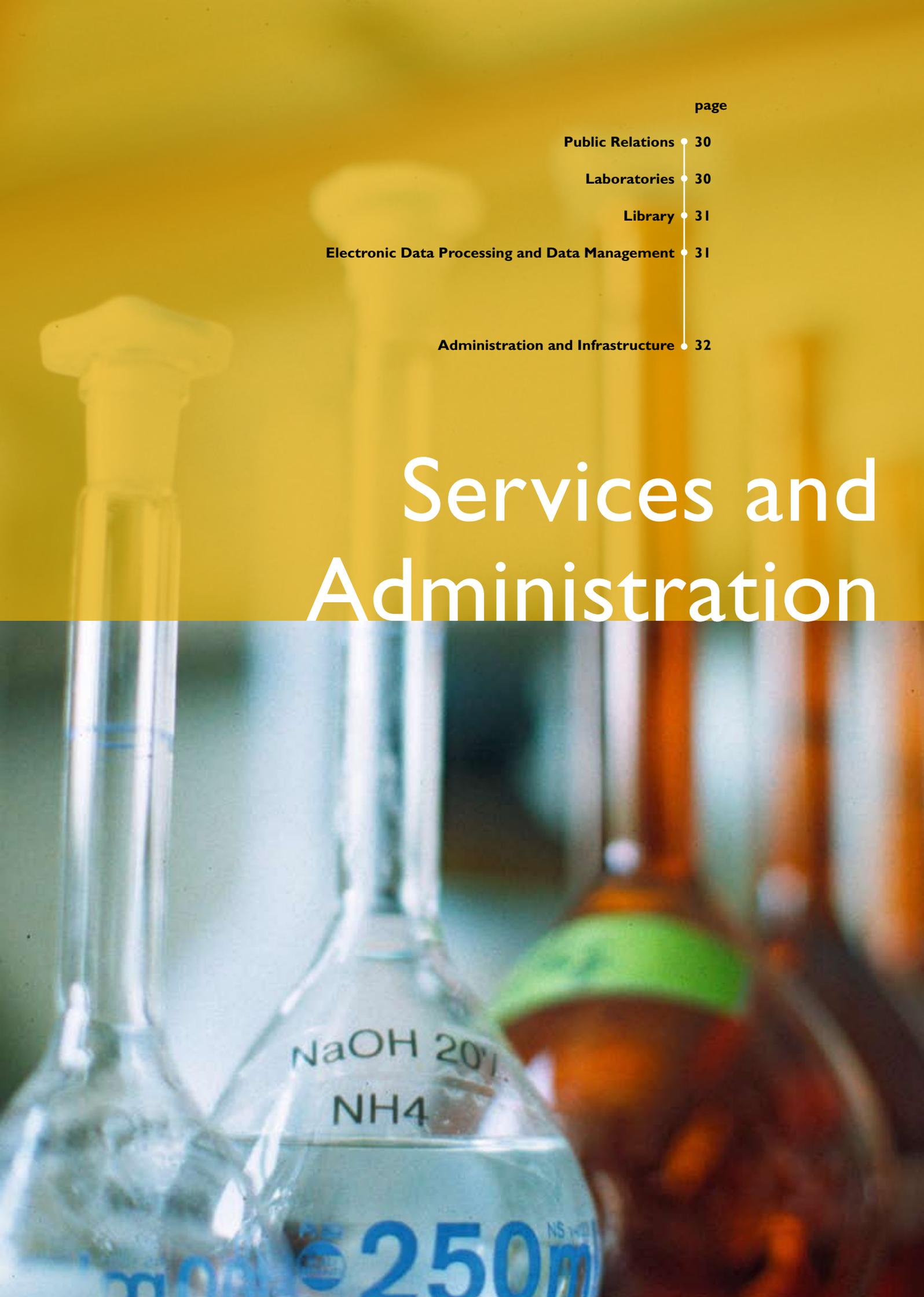
### IGBP-LOICZ, IGBP-IMBER

The ZMT contributes to both biogeochemical and social science aspects of the investigations of LOICZ. Cooperation was intensified since one member of the ZMT scientific staff is a member of the LOICZ International Scientific Steering Committee. Together with LOICZ and SCOR, the ZMT is now developing plans how to enhance the impact of capacity building activities. In addition, plans for joint activities with respect to regional programs are being discussed.

### International Ocean Institute (IOI)

The ZMT hosts the German Operational Center of the International Ocean Institute since October 2002. A member of the ZMT staff is the director of the Operational Center and is also chairing the Board of Operational Centre Directors that is responsible for the IOI strategy development. The ZMT contributes its expertise to networks run by the IOI and its OceanLearn program. During the last three years, the ZMT cooperated with the IOI in a GTZ project to support capacity building in the fisheries sector in Papua New Guinea together with the National Fisheries Authority. A fisheries study program was developed and implemented at the Vudal University in Papua. The ZMT also coordinated the participation of children from two Bremen schools in a Youth Parliament organized by the IOI in Malta.





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# Services and Administration

## Services

### Public Relations

Public relations at ZMT comprise media and press matters, issuing information material concerning the ZMT and its projects, and coordinates public awareness projects and events addressing the general public.

The public relations office regularly provides information to the online scientific news service IDW, puts journalists in touch with ZMT experts, and writes or edits press releases and news items for the ZMT website. It also publishes its own articles in magazines. In the last three years, the media covered a broad range of subjects concerning

cooperations with schools were continued on a smaller scale. A workshop on marine ecosystems was organized and pupils were coached by the ZMT staff while elaborating their project theses on subjects related to the sea. Upon requests from different schools, the ZMT gave presentations of its reef research and the aquaculture facilities.

The ZMT contributes regularly to presentations that are conjointly prepared with other institutions such as the Leibniz Association, the Consortium of German Marine Research, or MARUM. Thus, it took part in an evening for German parliamentarians at the Natural History Museum in Berlin and in the exhibition "Plaza of Diversity" during the UN Biodiversity Conference in Bonn. There is also a close cooperation with Bremen's "Haus der Wissenschaft", which provides excellent opportunities to build bridges between science and the public: the ZMT participated in several exhibitions, took part in lecture series, and organized the events related to the International Year of the Reef. In November 2008, the ZMT and its partners presented their cooperation projects with China in Guangzhou, at an exhibition from the event series "Germany and China moving ahead together".

Information about the ZMT, its research and capacity building activities was edited in leaflets and reports. Structural changes and the expansion of the scientific divisions at the ZMT have led to an extensive reorganization of the website which will be relaunched with a new layout and content management system in 2009.

### Laboratories

The ZMT further developed its analytical facilities by the acquisition of new instruments for its chemical and biological laboratories, as well as for use during field expeditions. These instruments included a mass spectrometer, an ICP-OES (inductively coupled plasma optical emission spectrometer), a HPLC for the analysis of sugars, an amino acid analyzer, and a TOC-TDN analyzer for determining dissolved carbon and nitrogen. Newly purchased field equipment includes the latest generation of oxygen probes (optodes) and microconductivity electrodes, which can also be applied to sediments. Two new systems have been installed in the biology laboratory for the measurement of temperature-depen-



the ZMT projects. One special focus was the accession of the ZMT to the Leibniz Association and during the International Year of the Reef, questions of reef degradation were also of concern. Press conferences were organized in the scope of the European Coral Reef Conference and the presentation of final results of the TRIOPS project. On the occasion of the annual conference of science journalists (WissensWerte) in Bremen, a group of journalists visited the ZMT.

With its educational work with school children in the past years, the ZMT underwent a kind of "trial phase", in which various educational units were developed and implemented. Educational activities and

dent oxygen consumption in combination with measuring the activity of various fish and invertebrate species.

The aquaculture facility of the ZMT operates a closed-loop water circulation system for the maintenance of tropical marine organisms. With it, ecological and physiological experiments can be performed on selected species. Of the five independent circuits, holding a capacity of more than ten cubic meters of volume, two have been in operation for more than three years. Several components were added to the modular water-treatment system. Each circuit now contains calcium reactors and UV treatment. The use of biological filtering modules (algae reactors, clams, mangrove plants) will continue owing to financial support by industrial partners through cooperation projects.

In addition, two large basins with a capacity of 400 L were put into operation in order to maintain different species of hard corals. One of the basins contains a specially developed installation that is able to generate particular types of waves (solitons). The basins require extensive monitoring and the adjustment of water parameters. In cooperation with the MPI Bremen, a special microsensor workstation has also been developed to measure the physiological responses of corals and calcareous algae to rapid changes of pH and temperature.

### Library

The ZMT library is a specialized one and contains collections on ecology, marine ecosystems, fisheries biology, and coastal management, as well as some titles on socioeconomics and biogeochemistry. It is regularly used by the staff of the ZMT, their guests, and thesis students supervised at the ZMT. The library is a member of the National Working Group of Marine Science Libraries (AMB). Its members exchange information and provide mutual support in answering literature requests from library users. Through the AMB, the library has an online-access to the ASFA (Aquatic Sciences and Fisheries Abstracts) database maintained by Cambridge Scientific Abstracts. The ZMT is also a member of the Group of Libraries and Information Services of the Leibniz Association.

The ZMT currently subscribes to about 25 scientific journals. The journals were reg-

istered in a database, which was programmed with the aim of providing ZMT personnel with desktop access to the library for their research fields. Via the Campus Net of the University of Bremen, the ZMT has access to online journals through a national license funded by the DFG. The ZMT can also access all Springer titles held by the Consortium on the Common Library Network.

### Electronic Data Processing and Data Management

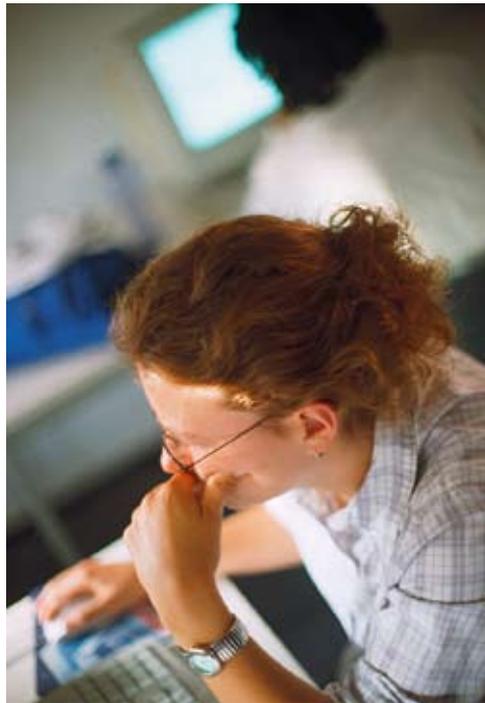
The IT infrastructure of the ZMT includes various servers and an increasing number of PCs and notebooks. Internal services for users, like logins, data storage, and printing are hosted on a central server and realized under a LINUX operating system. To meet the requirements of the increasing amount of hosts and users, the data storage capacity was enhanced to four terabytes. All data are backed up continuously on separate devices and tapes. A new backup concept is in preparation and will include the use of a tape-library. Long-term preservation concepts for document and data storage are under discussion. The replacement of the server hardware for FTP services and the hosting of internal mailing lists were accomplished in November 2008.

Since 2006, the telephone system includes new access points for mobile DECT phones and WLAN. The WLAN is primarily reserved for guests. It offers access to the world wide web independent of internal network and network services.



## Administration and Infrastructure

The total number of members of the staff at ZMT increased from 41 (full-time equivalent) in 2005 to 46 in 2008. The positions of Ecological Modeler and Reef Ecologist that became vacant by the acceptance of professorships could be filled in 2008. Within two long-term projects, SPICE in Indonesia and LANCET in China, several new positions were filled in scientific and technical areas. In accordance with its development plans as a Leibniz Center, the ZMT could advertise four new positions for professorships.



In the field of IT, there has been an increase in service requirements both in terms of the number of PCs and laptops to be maintained and in the volume of data that have to be handled. The advertised position for an IT group leader failed to produce the desired result. Instead, the ZMT decided to employ an IT technician to support the group for the time being. Personnel badly needed in the areas of administration, technical support for the laboratory, as well as scientific and coordinating assistance to the Director are yet to be appointed.

Considering the further development of the personnel at the ZMT, the increase in the number of projects as well as in the supervision of postgraduate students and guest scientists, there is a considerable pressure on the available office and laboratory capacity. The increasing demand for work space was partially met by renting an additional floor in the annex. Thus, the ZMT is now the sole tenant of the entire building complex. The problem of space is being further tackled by the new construction of a three-story extension to the annex, which will be used as laboratory and office space. The extra space will allow us to conduct new research in the field of aquaculture that will be of interest to potential partners from the industry, and to develop further projects involving new research groups to be established at the end of 2009.



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- Abreu, M.M.O., **U. Mehlig**, R.E.S.A. Nascimento & M.P.M. de Menezes (2006): Análise de composição florística e estrutura florestal de um fragmento de bosque de terra firme e de um manguezal vizinhos na península de Ajuruteua, Bragança, Pará. *Boletim do Museu Paraense Emílio Goeldi, Ciências Naturais* 2 (3), 27-34.
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- Bilanz und Ausblick zur Tsunami-Hilfe am Beispiel Sri Lankas, Katastrophenhilfe oder katastrophale Hilfe? Seminar für Ländliche Entwicklung, Humboldt Universität, Berlin, 27.02.2006
- Perspectives of German-Indonesian Research Cooperation in Coastal Social Ecological Systems, International Conference on Coastal and Disaster Management for Extreme Events Impact Mitigation, UNHAS, Makassar, Indonesien, 23.03.2006
1. Tsunamis, Generating Forces and Physical Properties, Summerschool „Coastal and Disaster Management“, 2. Coastal Management in the Era of Decentralisation, Summerschool „Coastal and Disaster Management“, 3. Indicators for Good Governance in Coastal Management, Summerschool „Coastal and Disaster Management“, UNHAS, Makassar, Indonesien, 04.-05.04.2005
- SPICE Program, Status and New Developments in Coastal and Disaster Management Cooperation in Indonesia, Kick-off Meeting German-Indian Ocean Tsunami Early Warning Systems (GITEWS), Geoforschungszentrum, Potsdam, 04.-05.05.2006
- Taming the Impossible: Tsunami Risk Management in Indonesia, Int. Workshop cum Trainingcourse on Coastal Ecosystem Hazard Management and Rehabilitation, UNSOED, Purwokerto, Indonesien, 14.08.2006
- An Introduction to SPICE: experiences in science cooperation to contribute to policy and decision making in ecosystems management, SPICE/LOICZ/ATSEF/SEACORM (SLAS) Southeast Asia Coastal Governance and Management Forum: Science Meets Policy for Coastal Management and Capacity Building Bali, Indonesien, 15.11.2006
- Linking Integrated Coastal Zone Management with Tsunami Disaster Risk Management, International Symposium „Restoration and Development of Tsunami Affected Areas in Indonesia, Fachhochschule Erfurt, 30.01.2007
- G. Krause**
- Offshore Co-management: Potentials & Constrains, Suitability of Offshore Wind Farms as Aquaculture Sites – 1. Stakeholder Meeting, Royal Institute of Natural Architects, University of Plymouth, 28.02.-01.03.2006
- Social-ecological systems analysis in integrated coastal management, International Conference on Coastal and Disaster Management for Extreme Events Impact Mitigation, UNHAS, Makassar, Indonesien, 23.03.2006
- What is coastal management (m. M. Glaser), Padang, Andalas University, Indonesien, 03.04.2006
- Soziale Gerechtigkeit in der Küstenzone: Szenarios zum Mangrovenmanagement in Pará (Nordbrasilien), Ethik und Umweltpolitik der Deutschen Gesellschaft für Humanökologie, Sommerhausen, 09.-13.05.2006
- Remote sensing of mangrove forest structure, GlobWetland Symposium „Looking at Wetlands from Space“, ESA, ESRIN, Frascati, 19.-21.10.2006

ICZM Status in Europe, ICES-Workgroup Meeting, Bedford Institute for Oceanography, Halifax, Kanada, 28.03.2007

Systemwandel und soziale Gerechtigkeit in der Küstenzone: Szenarien zum Mangrovenmanagement in Pará (Nordbrasilien) (mit M. Glaser), Umwelt als System – System als Umwelt? Systemtheorien auf dem Prüfstand, Universität Bonn, 16.06.2007

Transdisziplinäre Szenarien in einem Mangroven-Ökosystem: Nachhaltiges Management in einem ko-evolutionären sozial-ökologischen Rahmenwerk, European Society of Ecological Economics (ESEE) – Integrating Natural and Social Science for Sustainability, Leipzig, 05.-08.06.2007

Options for resilience in a co-evolutionary social-ecological framework: Employing scenarios for a sustainable future, 15th Conference of the Society for Human Ecology „Local Populations and Diversity in a Changing World“, Rio de Janeiro, Brasilien, 02.-08.10.2007

Trends of ICZM in Europe and its relevance to shellfish cultivation, 10th International Conference on Shellfish Restoration (ICSR) 2007, Wageningen, 11.-16.11.2007

Social-ecological system definition – Defining the common baseline of cluster 6, Kick-Off-Workshop SPICE II, Center for Coral Reef Research, UNHAS, Makassar, Indonesien, 03.04.03.2008

Resilience in the Peruvian scallop fishery: a system model approach (m. M. Badjeck), Resilience 2008, Stockholm, 15.04.2008

Methods of SES Analysis: Potentials and Pitfalls, DGH Symposium, Sommerhausen, 28.-31.05.2008

#### U. Krumme

Tidal migrations of mangrove fish: a hydroacoustic approach, 1st International Symposium on Mangroves as Fish Habitats, Miami, FL, 18.-25.04.2006

Patterns in tidal migration of mangrove fish: a hydroacoustic approach (m. U. Saint-Paul), First International Symposium on Mangroves as Fish Habitats, Rosenstiel School of Marine and Atmospheric Science, University of Miami, Miami, Florida, 19.-21.04.2006

#### L. Krupp

Effects of land-based activities on fluxes and transformation of nutrients and organic

matter from the watershed to the coastal sea: Hainan, South China, GLOMAR Annual Retreat 2007, Etelsen, 03.-04.12.2007

Habitat linkages: Nekton status and connectivity between estuarine habitats, LANCET Workshop, Hainan, V.R. China, 31.07.2008

Effects of shrimp aquaculture on the biogeochemistry in Hainan, South China, Summer School on Mangrove Ecology, Institute of Oceanography, Nha Trang, Vietnam, 10.09.2008

#### A. Kunzmann

Untersuchungen zur Marikultur an Zierorganismen am ZMT, DWK-Sitzung, ZMT, 02.07.2008

Physiological performance of three species of giant clams, 11th International Coral Reef Symposium 2008, Fort Lauderdale, Florida, 09.07.2008

#### H. Lai Phu

Community structure as bioindicator for different mangrove types in Can Gio Reserve, Vietnam, Postgraduate International Nematology Course, University Gent, Gent, 21.-27.05.2006

Nematode communities as bioindicators for different types of mangrove in Can Gio Biosphere Reserve, Vietnam, International Symposium on Nematodes as Environmental Bioindicators, Edinburgh, 13.06.2007

Free-living Nematode community structure for differentiation of mangrove types in Can Gio Biosphere Reserve, Ho Chi Minh City, Vietnam. (mit U. Saint-Paul u. Nguyen Vu Thanh), Bien Dong 2007, Nha Trang, Vietnam, 12.09.2007

#### R. Lara

Coastal dynamics and ecohydrology in the Management, Weltbank, Washington DC, USA, 18.-24.04.2006

Sedimentary organic matter and past reactions of Amazonian wetland to climate oscillations in the Holocene, International Sedimentology Conference, Fukuoka, Japan, 29.08.2006

Interdisciplinary research in coastal wetlands – perspectives for cooperation, Faculty Invited Speakers Cycle, Osaka Prefectural University, Osaka, Japan, 14.12.2007

Interdisciplinary research at ZMT – an overview and perspectives for cooperation, NICED, Kalkutta, Indien, 29.05.2008

## Lectures

Interdisciplinary research at the ZMT: Current activities and perspectives for cooperation, IMARPE, Lima, Peru, 08.10.2008

Management of endangered mangrove coasts and human health: A proposed comparison of cholera dynamics in the Sundaban and Amazonian regions, EMECS-8, Harmonizing catchment and estuary, China East Normal University, Shanghai, VR China, 28.10.2008

### J. Leal-Flórez

Exotic fish species and changes in catch composition of the Ciénaga Grande de Santa Marta Estuarine System, International Conference on Aquatic Invasive Species, Key Biscayne, Florida, 16.05.2006

Role of introduced fish in the fisheries system dynamics of the Cienaga Grande De Santa Marta Ecosystem (Colombia), Modelling Workshop, ZMT, 19.04.2007

### M. Lukas

Land use change and environmental governance in Segara Anakan, Purwokerto, Indonesien, 28.02.2008

Land use change and environmental governance in Segara Anakan, Kick-off Workshop, Makassar, Indonesien, 03.03.2008

Estuarine dynamics, management and human health: the case of cholera, 5th Meeting of the UNESCO European Working Group for Estuaries and Coastal Ecohydrology, Kavala, Griechenland, 16.09.2008

### I. Nordhaus

The benthic community in the Segara Anakan lagoon, Workshop „Segara Anakan“, UNSOED, Purwokerto, Java, Indonesien, 23.01.2006

The trophic role of the mangrove crab *Ucides cordatus* in a high intertidal mangrove forest in northern Brazil, II Mangrove Macrobenthos Meeting, Coolangatta, Australien, 26.-30.06.2006

The Benthic Community in the Segara Anakan Lagoon, Indonesian-German Bilateral Workshop on SPICE Phase I: Ecological and Social Aspects of Segara Anakan, Cilacap, UNSOED, Purwokerto, Indonesien, 26.03.2007

### M. Nugues

Influence of benthic communities on the settlement and post-settlement survival of two reef corals in the Florida Keys, 11<sup>th</sup>

International Coral Reef Symposium 2008, Fort Lauderdale, Florida, 07.07.2008

Process of decline and recovery on coral reefs, LANCET-Workshop, Hainan, VR China, 01.08.2008

### J. Paramo

MPA's as management tools in Northern Colombian Waters, Modelling Workshop, ZMT, 19.04.2007

### C. Piou

Pattern-oriented modelling of a mangrove crab movement, YoMo Meeting in ecology, Gülpe, 07.-09.2006

1. Adapting the Akaike's Information Criterion for Individual Based Model selection (m. U. Berger), 2. About the emergence of alternative succession trajectories in (neotropical) mangrove forests (m. U. Berger), GfÖ Jahrestagung 2006, Bremen, 11.-15.09.2006

### C. Propp

Benthic recycling in the Madura Strait (Java) and its effects on the water quality and biogeochemistry – concepts and first results, GLOMAR Annual Retreat 2007, Etelsen, 03.-04.12.2007

### H. Reuter

Multi-scale interactions in complex ecological systems (mit Jopp), Jahrestagung der GfÖ, Leipzig, 18.09.2008

### C. Richter

ORCAS – Ocean-Reef Coupling in the Andaman Sea, DFG-NRCT-Workshop, Phuket, Thailand, 28.07.2006

Coral reefs, oases in a desert ocean – on marine science and international cooperation, International School, Bremen, 19.04.2007

### T. Rixen

The biological pump in the Indian Ocean, SIBER-Workshop, Goa Indien, 05.10.2006

Dissolved organic carbon (DOC) export from the peat draining river Siak in central Sumatra and its fate in the adjacent coastal ocean (mit A. Baum et al.), European Geosciences Union, General Assembly 2007, Wien, 15.-20.04.2007

The Cuban - European climate connection, a coral based climate reconstruction, Meereswissenschaftliches Kolloquium, IfM GEOMAR, Kiel, 01.06.2007

Results from coral reef studies: Climatic signals and major coastal events, Universität Lüneburg, 21.06.2007

**C. Roder**

Heterotrophy in Steinkorallen, GeoBioCenter, Universität München, 14.12.2007

Coral nutrition under the impact of internal waves, GeoBioCenter, München, 02.05.2008

Coral reefs under the impact of internal waves, Similan Islands, Andaman Sea: heterotrophy, 11th International Coral Reef Symposium 2008, Fort Lauderdale, Florida, 10.07.2008

**S. Rückert**

Marine fish parasites in Indonesia: state of infestation and importance for grouper mariculture, Bandar Lampung, Indonesien, 15.03.2007

**U. Saint-Paul**

ICZM: Projekterfahrungen in Brasilien, Die nationale Strategie zum Integrierten Küstenzonenmanagement und ihre Perspektiven, HdW, Bremen, 27.04.2006

Mangroven zwischen Schutz und Nutzung, Lateinamerikainstitut, Wien, 23.-24.05.2006

A Ten Years Lasting Cooperation Project on Mangrove Dynamics and Management in North Brazil, Mangrove Macro-benthic Meeting II, Coolangattan, Australien, 26.06.-30.06.2006

Fisheries Ecology in the Amazon Floodplains, Wasserfachtagung, Hanoi, Vietnam, 27.09.2006

Fish ecology in tropical estuaries, Encontro Brasileiro de Ictiologia 2007, Itajai, Brasilien, 30.01.2007

Interrelações entre manguezais, economia local e sustentabilidade social experiências de um programa de cooperação no Norte do Brasil, XII. Congreso Latino-Americano Ciencias del Mar (COLACMAR), Florianopolis, Brasilien, 18.04.2007

Schutz und Nutzung der Mangrove Brasiliens, Emeritierung Prof. Junk, MPI für Evolutionsbiologie, Plön, 23.06.2007

Interrelations between mangroves, local economy and social sustainability. A review from a case study in North Brazil, Phuket Marine Biological Center, Phuket, Thailand, 05.09.2007

I. Land-ocean-atmospheric interaction in

the coastal zone of Vietnam, 2. Free-living Nematode community structure for differentiation of mangrove types in Can Gio Biosphere Reserve, Ho Chi Minh City, Vietnam. (mit Lai Phu Hoang u. Nguyen Vu Thanh), Bien Dong 2007, Nha Trang, Vietnam, 12.09.2007

Utilization of Aquatic Resources along the Brazilian Coast with Special Reference to Mangroves as Fish Nurseries, DELTA 2007 – Managing the coastal land-water interface in tropical delta systems, Bang Sean, Thailand, 07.11.2007

Aspects of mangrove research at the ZMT, Conferencia Magistral de Ecología de Manglares, INVEMAR, Santa Marta, Kolumbien, 31.01.2008

Global change and coastal protection in Vietnam, Asian Wetland Symposium 2008, Hanoi, Vietnam, 25.06.2008

Mangrove restoration, Summer School on Mangrove Ecology, Institute of Oceanography, Nha Trang, Vietnam, 10.09.2008

O ZMT e seus trabalhos em áreas de mangue, Umweltmesse FIEMA, Bento Gonçalves, Brasilien, 29.10.-01.11.2008

**S. Schwamborn**

A Trophic model of a tropical sea grass system in Brazil, Modelling Workshop, ZMT, 19.04.2007

**K. Schwerdtner Máñez Costa**

Historical changes and shifting environmental base lines, International Workshop on Implementation Plan of SPICE Phase Focusing on Segara Anakan Cilacap, UNSOED, Purwokerto, Indonesien, 28.02.2008

**M. Taylor**

Trophic Modeling of Eastern Boundary Current Systems: A Review and Prospectus for Solving the „Peruvian Puzzle“ (m. M. Wolff), International Conference on Coastal Ecosystems Towards and Integrated Knowledge or an Ecosystem Approach for Fisheries, Campeche, Mexiko, 26.-29.06.2006

CENSOR – Comparative analysis of trophic flow structure between normal upwelling and El Niño periods for Bahia Independencia, Peru, CENSOR-Mid-Term Symposium, Concepción, Chile, 13.09.2006

Progress in the trophic modelling of Peruvian bay systems along a latitudinal gradient as impacted by the El Niño Southern

## Lectures

- Oscillation (ENSO), Modelling Workshop, ZMT, 19.04.2007
- The Northern Humboldt Current Ecosystem and its resource dynamics: Insights from a trophic modelling and time series analysis, Abschluss-symposium – CENSOR, IMARPE, Lima, Peru, 12.09.2008
- D. Unger**
- Some aspects of biogeochemistry of organic matter in the Indian Ocean, SIBER-Workshop, Goa Indien, 05.10.2006
- Land-based activities affecting the fluxes and transformation of nutrients and organic matter from watershed to the coastal sea (with T. Jennerjahn), LANCET-Workshop, Hainan, VR China, 31.07.2008
- Urbanisation and land use change, impact on estuaries and coastal waters, Deutschland-Promenade, Guangzhou, VR China, 10.11.2008
- LANCET: Land-Sea interaction along coastal ecosystems in Hainan – effects of land-based activities on fluxes from land to sea, Guangxi Mangrove Research Center, Heibai, VR China, 13.11.2008
- F. Vadas**
- An Agent-based Model on the behaviour of Peruvian's diving fishermen, Modelling Workshop, ZMT, 19.04.2007
- P. Westhaus-Ekau**
- Sino-German Master Programme in Marine Sciences, DAAD Fachkonferenz „go – out!“, Berlin, 10.05.2007
- Meeresforschung und Ausbildung in Bremen, Deutsche Botschaft, Beijing, V.R. China, 23.11.2007
- The Sino-German Master Programme in Marine Sciences, Chin. Delegationsbesuch, 07.04.2008
- M. Wolff**
- A catch forecast model for the Peruvian scallop, Universidad la Molina, Peru, 17.03.2006
1. A Catch Forecast Model for the Peruvian Scallop (*Argopecten purpuratus*) Based on Estimators of Spawning Stock and Settlement rate (m. M. Taylor & J. Mendo), 2. Construction of a Fisheries Model Incorporating Climate Variability for the Stocks of *Haliotis* spp. (Abalone) in Baja California, Mexico (m. F. Keyl, & D.B. Lluch Cota), 3. Trophic Modeling of Eastern Boundary Current Systems: A Review and Prospectus for Solving the „Peruvian Puzzle“ (together with M. Taylor), International Conference on Coastal Ecosystems Towards and Integrated Knowledge or an Ecosystem Approach for Fisheries, Campeche, Mexiko, 26.-29.06.2006
- Simulating ecosystem transition from upwelling to El Niño conditions: the case of Independencia Bay, Peru, Universidad de Antofagasta, Chile u. Humboldt-Konferenz, Lima, Peru, 12.09.2006
- Propuesta para el plan de Manejo de la concha de abanico en la bahía de Sechura, norte del Peru, Abschluss-symposium – CENSOR, IMARPE, Lima, Peru, 12.09.2008

**E.R. Ardli**

Quantifying habitat and resources use changes in the Segara Ankakan Lagoon (Cilacap, Indonesia) over the past 25 years, Indonesian-German Bilateral Workshop on SPICE Phase I: Ecological and Social Aspects of Segara Anakan, Cilacap, UNSOED, Purwokerto, Indonesien, 26.-27.03.2007

**A. Baum, T. Rixen et al.**

1. Discharges of dissolved organic carbon from central Sumatra, Indonesia, and its horizontal distribution in the coastal zone 2. Relevance of peat draining rivers in central Sumatra for riverine input of dissolved organic carbon into the ocean, SPICE-LOICZ-Konferenz, Denpasar, Bali, Indonesien, 13.11.2006

**A. Baumgart**

Verteilung von Nährstoffen und stabilen Stickstoffisotopen im Nitrat des Auftriebsgebietes im Indischen Ozean vor Java und Jakarta „Sonne“-Statusseminar, IfM-GEO-MAR, Kiel, 14.02.2007

**E. Borell, S. Romatzki, S. Ferse**

Electric reef corals: backtracking the notion of enhanced growth and prosperity, 11<sup>th</sup> International Coral Reef Symposium 2008, Fort Lauderdale, Florida, 07.-11.07.2008

**R. Deswandi, M. Glaser**

Destructive fishing practices: Identifying its triggering factors and understanding the interplays of institutions in coral reef management in Spermonde Archipelago Indonesia, 11<sup>th</sup> International Coral Reef Symposium 2008, Fort Lauderdale, Florida, 07.-11.07.2008

**K. Diele et al.**

1. Environmental cues from the adult habitat induce metamorphosis of mangrove crab larvae, *Ucides cordatus* 2. Influence of the commercialization system on the capture size of the mangrove crab *Ucides cordatus*, 5th Brazilian Crustacean Congress, Gramado, Brasilien, 09.-13.11.2008

**W. Ekau**

Large Scale Low Oxygen controlling Distribution Patterns of Early Life Stages of Fish in the Northern Benguela and Southern Angola Currents, European Geosciences

Union General Assembly 2006, Wien, 06.-08.04.2006

**H. Auel & W. Ekau**

Coastal upwelling systems as equatorwards extensions of distribution range for high-latitude pelagic species – the amphipod *Themisto gaudichaudi* in the Benguela Current, Eastern Boundary Upwelling Ecosystems, Las Palmas, Gran Canaria, 01.-06.06.2008

**M. Fontalvo, U. Berger & C. Piou**

The application of a spatially-explicit model for the sustainable use of mangrove forest plantations, GfÖ Jahrestagung 2006, Bremen, 11.-15.09.2006

**S. Ferse, A. Kunzmann, L. Knittweis**

Coral Reefs are more than Fishes. Towards the sustainable use of non-fish reef, Southeast Asia Coastal Governance and Management Forum: Science Meets Policy for Coastal Management and Capacity Building, Bali, Indonesien, 14.-16.11.2007

**S. Ferse**

Reef rehabilitation and natural recovery. Does transplantation of coral fragments increase natural recruitment? 11<sup>th</sup> International Coral Reef Symposium 2008, Fort Lauderdale, Florida, 07.-11.07.2008

**B. Grote, W. Ekau, W. Hagen, C. Clemmesen & H. Verheye**

Depth distribution and condition of hake larvae, *Merluccius capensis* and *M. paradoxus*, in the southern Benguela upwelling system of South Africa, Eastern Boundary Upwelling Ecosystems, Las Palmas, Gran Canaria, 01.-06.06.2008

**M. Glaser**

Methods in social-ecological systems analysis. Pitfalls and potentials of agent-based modelling, Coping with global change in marine social-ecological systems, FAO, Rom, 07.-11.07.2008

**C. Jantzen et al.**

1. Seasonal investigation on stability of coral-algae interactions in fringing reefs of the Northern Red Sea, 2. Two species of giant clams (Tridacnidae) show different depth distributions and divergent feeding

- strategies, 11<sup>th</sup> International Coral Reef Symposium 2008, Fort Lauderdale, Florida, 07.-11.07.2008
- C. Jantzen, C. Richter et al.**  
Pumping of pore water nutrients by the upside-down-jellyfish *Cassiopeia* Sp. in Coral Reefs, 11<sup>th</sup> International Coral Reef Symposium 2008, Fort Lauderdale, Florida, 07.-11.07.2008
- T. Jennerjahn**  
Einfluß des Küstenauftriebs auf die Verteilung organischer Substanz in den Sedimenten des Indischen Ozeans vor Java und Sumatra „Sonne“-Statusseminar, IfM-GEOMAR, Kiel, 14.02.2007
- F. Keyl et al.**  
Modelling production and population dynamics of *Dosidicus gigas* in the Peruvian exclusive economic zone, CLIOTOP (Climate Impact on Top Predators) Symposium, La Paz, Mexiko, 03.-07.12.2007
- L. Knittweis**  
The need for coral husbandry: a case study of *H. actioformis* exploitation for the live coral aquarium trade in the Spermonde Archipelago, South Sulawesi, Indonesia, 1<sup>st</sup> International Symposium of Coral Husbandry in Public Aquaria, Burgers' Zoo, Arnheim, 16.-21.04.2007
- E. Krain**  
The training module: Training the impossible? Tsunami and coastal disaster risk management in Indonesia, Marine Ecology, Special Training Course, Hasanuddin University, Makassar, Indonesien, 14.-16.11.2006
- U. Krumme & T. Giarrizzo**  
Do four intertidal mangrove creeks in a homogenous salinity zone have the same habitat value for juvenile fish assemblages? ,First International Symposium on Mangroves as Fish Habitats, Rosenstiel School of Marine and Atmospheric Science, University of Miami, Miami, Florida, 19.-21.04.2006
- G.A. Castellanos-Galindo, U. Krumme, A. Giraldo**  
Tide-related variation in the reef fish fauna of Utría National Park (Colombia, Tropical Eastern Pacific), 11<sup>th</sup> International Coral Reef Symposium 2008, Fort Lauderdale, Florida, 07.-11.07.2008
- A. Kunzmann, T. Jennerjahn, S. Bröhl, I. Schulz, A. Baumgart & Colleagues from NIO**  
Biogeochemical and ecological studies of rivers, coastal ocean and coral reefs off Nha Trang/Vietnam, Scientific Conference Bien Dong – 2007 on the occasion of the 85<sup>th</sup> anniversary of the Institute of Oceanography, Nha Trang, Vietnam, 12-14.09.2007
- A. Kunzmann**  
Growth of giant clams (*Tridacna maxima* and *T. squamosa*) in a recirculation system: effects of light and nutrients, Annual Meeting of the European Aquaculture Society, Istanbul, 23.-28.10.2007
- Physiological performance of Giant Clams (*Tridacna Maxima*, *T. Squamosa*, *T. Derasa*) in a recirculation system, 11<sup>th</sup> International Coral Reef Symposium 2008, Fort Lauderdale, Florida, 07.-11.07.2008
- R. Lara**  
Sea-level variations at the Amazon River Mouth, 9<sup>th</sup> International Conference on Palaeoceanography, Shanghai, V.R. China, 01.-08.09.2007
- M.-A. Merckens, A. Kunzmann**  
Improved intermittent flow respirometry - comparison of the metabolic rates of coral reef and temperate scorpaenid fishes, 11<sup>th</sup> International Coral Reef Symposium 2008, Fort Lauderdale, Florida, 07.-11.07.2008
- I. Nordhaus**  
Human activities affecting the spatio-temporal distribution of benthic organisms in the mangrove-fringed Segara Anakan lagoon, Java, Indonesia, II Mangrove Macrobenthos Meeting, Coolangatta, Australien, 26.-30.06.2006
- I. Benthic community composition in the mangrove-fringed Segara Anakan Lagoon, (Java, Indonesia) affected by human activities, 2. Spatio-temporal variation of the intertidal mangrove crab community in the Segara Anakan Lagoon, Java, Indonesia, 3. Food preferences of mangrove crabs in

the Segara Anakan Lagoon, Java, Indonesia, Indonesian-German Bilateral Workshop on SPICE Phase I: Ecological and Social Aspects of Segara Anakan, Cilacap, UNSOED, Purwokerto, Indonesien, 26.-27.03.2007

**C. Piou**

Spatial organization and local resilience of a mangrove crab population analysed with an individual based model, ESA Conference 2006, Memphis, USA, 05.-11.08.2006

**M. Protazio & U. Berger**

Applying Wavelet Transform to Point Pattern Analysis: An application to plant ecology, GfÖ Jahrestagung 2006, Bremen, 11.-15.09.2006

**H. Reuter et al.**

Assessing emergent properties in complex ecological methods, Jahrestagung der GfÖ, Leipzig, 15.-18.09.2008

**C. Richter**

Ocean forcing of coral reef processes – Solibore-induced upwelling in the Similan Islands, Andaman Sea, 4th Japanese-German Frontiers of Science Symposium, Shonan Village Center, Japan, 01.-04.11.2007

**T. Rixen**

Stable carbon and nitrogen isotope distribution in the water column and sediments in the Indian Ocean upwelling region off Java and Sumatra, Indonesia, European Geoscience Union, General Assembly, Wien, 15.-20.04.2007

**T. Rixen, A. Baum et al.**

Optical investigations in the tropical Siak river estuary in central Sumatra Ocean, Optics Conference 2006, Montreal, Quebec, Canada, 09.-13.10.2006

**T. Rixen, V. Ittekkot et al.**

The ENSO-driven carbon seesaw in the Indo-Pacific, SPICE-LOICZ-Konferenz, Denpasar, Bali, Indonesien, 13.11.2006

**T. Rixen et al.**

Variability of stable isotope ratios in the coral *Siderastrea siderea* (Gulf of Mexico, Cuba), 6th European Coral Reef Conference, Bremen, 19.-22.09.2006

**S. Romatzki, A. Kunzmann, S. Schmidt-Roach**

1. Gametogenesis of Six Scleractinian Corals in the Celebes Sea, 2. Continuous recruitment of hard corals in North Sulawesi, Indonesia estimated throughout the year with Fluorescence Census Technique, 11<sup>th</sup> International Coral Reef Symposium 2008, Fort Lauderdale, Florida, 07.-11.07.2008

**S. Rückert**

Possible transmission pathways of parasites into Indonesian grouper mariculture, Indonesian-German Bilateral Workshop on SPICE Phase I: Ecological and Social Aspects of Segara Anakan, Cilacap, UNSOED, Purwokerto, Indonesien, 26.-27.03.2007

**M. Wolff, M. Taylor, M. Badjeck, M. Arias-Schreiber**

1. CENSOR – Comparative analysis of trophic flow structure between normal upwelling and El Niño periods for Bahia Independencia, Peru, 2. Trophic flows in the Northern Humboldt Current ecosystem: Part I) elucidating mechanisms of ecosystem change over an ENSO cycle by simulating changes in low tropic level dynamics, Humboldt-Conference, Instituto del Mar del Perú, IMARPE, Peru, 27.11.-01.12.2006

**M. Wolff et al.**

Comparing the dynamics of the nearshore and the offshore Humboldt Current trophic webs: the role of fisheries, environmental drivers and trophic relationships, Conference on dynamics of eastern boundary upwelling ecosystems; integrative and comparative approaches, Las Palmas De Gran Canaria, 01.-07.06.2008

## Events • Events Organized by the ZMT

- Workshop on Coastal Marine Ecosystems on the Andaman Sea Coast of Thailand, Thai-German Cooperation in Marine Science, ZMT, 11.01.2006
- HYPOXIA Meeting on Dynamics of semi-enclosed marine systems: the integrated effects of changes in sediment and nutrient input from land (PACKAMEDS), ZMT, 25.-26.03.2006
- Validation Workshop for the Evaluation of ICZM in Europe, ZMT, 22.-23.06.2006
- Plenary Conference: Models as Tools for Managing Fisheries, International Conference on Coastal Ecosystems, Towards and Integrated Knowledge or an Ecosystem Approach for Fisheries, Campeche, Mexiko, 26.-29.06.2006
- Annual meeting of the Ecological Society (ESA) of America, Symposia on Revisiting the 'stability' icon: Upstart approaches to modeling resilience DEA-1126-793210, Tennessee, 06.-11.08.2006
- 6th European Coral Reef Conference – European Meeting of the ISRS, Bremen, 19.-22.09.2006
- SPICE/LOICZ/ATSEF/SEACORM (SLAS) Southeast Asia Coastal Governance and Management Forum: Science Meets Policy for Coastal Management and Capacity Building, Bali, Indonesien, 14.-16.11.2006
- Bilateral German-Indonesian Conference on Marine Research and Education: SPICE, Bremen, 25.-26.01.2007
- Bilateral German-Chinese Meeting on Marine Science Education: Evaluation of the Masters Program and the preparation of the Sino-German Summer School, ZMT, 25.-27.01.2007
- CENSOR-Follow-Up Workshop „Avances en la elaboración del plan de manejo de la concha de abanico de la Bahía de Sechura“, Piura, Peru, 02.03.2007
- Dynamics of semi-enclosed marine systems: the integrated effects of changes in sediment and nutrient input from land. Workshop on SCOPE Rapid Assessment Project PACKMEDS, Bremen, 01.-05.04.2007
- Meeting of the Bilateral German-Indonesian Steering Committee Marine Research and Education, Bremen, 21.-22.05.2007
- Symposium: Social-Ecological Systems Analysis: The Way forward in the Anthropocene. Ecosummit 2007: Ecological Complexity and Sustainability, Beijing, V.R. China, 23.05.2007
- German Executive Committee Meeting SCOPE, ZMT, 06.06.2007
- Research-based Education in Marine Sciences. German-Indonesian Meeting in cooperation with the Indonesian Embassy, ZMT, 01.10.2007
- Bilateraler Workshop mit israelischen und deutschen Wissenschaftlern, ZMT, 19.-21.02.2008
- Deutsch-Chinesische Initiative in den Meereswissenschaften zur Förderung des wissenschaftlichen Nachwuchses – Diskussionsrunde zur Vorbereitung der 2. Lenkungsausschuss-Sitzung in Qingdao am 7./8. August 2008, ZMT, 20.06.2008
- DWK-Mitgliederversammlung, ZMT, 03.06.2008
- Bilateraler Workshop Namibia-Deutschland, ZMT, 09.-14.06.2008

## Participation in Events

### M. Arias Schreiber

Course on Simulations for the Social Sciences, Universität Koblenz-Landau, 17.-22.09.2006

Advanced Workshop on Simulations for the Social Scientists, Universität Koblenz, 19.-23.03.2007

Course on Introduction to Agent-based Modelling, TU Dresden, 08.-12.10.2007

### A. Baum

European Geoscience Union, Wien, 14.-24.04.2007

10<sup>th</sup> International Estuarine Biogeochemistry Symposium, University of Xiamen, Xiamen, China, 17.-26.05.2008

### A. Baumgart

European Geoscience Union, Wien, 14.-24.04.2007

Scientific Conference Bien Dong – 2007 on the occasion of the 85th anniversary of the Institute of Oceanography, Nha Trang, Vietnam, 12.-14.09.2007

**E. Borell**

11<sup>th</sup> International Coral Reef Symposium  
2008, Fort Lauderdale, Florida, 05.-12.07.  
2008

**C. Brandt**

Internationales Meerwassersymposium, Lünen,  
20.-22.04.2007  
Interzoo 2008, Nürnberg, 22.-23.05.2008

**D. Dasbach**

ICP-OES Schulung, Spectro, Kleve, 19.-  
23.06.2006  
Thermo-Training, Bremen, 22.-24.10.2008 und  
06.-07.11.2008

**K. Diele**

International Workshop on Wet Tropics,  
Cairns, Daintree, Australien, 31.06.-  
07.07.2006  
Ecosummit 2007: Ecological Complexity and  
Sustainability: Challenges and Opportuni-  
ties for 21<sup>st</sup>-Century's Ecology, Peking, VR  
China, 22.-27.05.2007  
Crustacean Kongress, Belem, Brasilien, 09.11.-  
17.12.2008

**S. Eickhoff**

Die Internetpräsenz als Mittel der Öffent-  
lichkeitsarbeit, Fortbildung, Universität  
Bremen, 23.-24.02.2006  
WissensWerte, Bremer Forum für Wissen-  
schaftsjournalismus, Bremen, 15.-16.11.  
2006 und 26.-27.11.2007  
AK Presse WGL, Senckenberg-Museum,  
Frankfurt, 27.-28.05.2008

**W. Ekau**

EU-Projekt ICZM, Kickoff Meeting, EU, Brüssel,  
30.01.-01.02.2006  
Die nationale Strategie zum Integrierten Kü-  
stenzonenmanagement und ihre Perspek-  
tiven, HdW, Bremen, 27.-28.04.2006  
Jahrestagung des IOI, National Institute of  
Oceanography and Fisheries, Alexandria,  
Ägypten, 02.-09.11.2006  
PACKMEDS, International Workshop, Delmen-  
horst, 01.-05.04.2007  
European Conference on „The Future Mari-  
time Policy of the EU: A European Vision  
for Oceans and Seas“, Bremen, 02.-04.05.  
2007  
34<sup>th</sup> Session of GESAM, UNESCO Headquar-  
ters, Paris, 08.-11.05.2007  
IMBER/LOICZ Continental Margins Open

Science Conference, East China Normal  
University, Shanghai, China, 17.-21.09.2007  
SCOR Working Group 128 Workshop, East  
China Normal University, Shanghai, China,  
22.-23.09.2007  
IOI Meeting of Directors & PACEM in Maribus  
Konferenz, Malta, 29.10.-11.11.2007  
BENEFIT Abschlußsymposium, Swakopmund,  
Namibia, 17.-23.11.2007  
Blue Planet Forum, Brüssel, 27.-28.11.2007  
Eastern Boundary Upwelling Ecosystems, Las  
Palmas, Gran Canaria, 01.-07.06.2008  
Mehr als Wasser – Ozeane und Globale  
Verantwortung, XVII. Malenter Symposium,  
Lübeck, 12.-14.10.2008  
IOI Jahresversammlung, Bukarest, 25.10.-  
01.11.2008

**S. Ferse**

11<sup>th</sup> International Coral Reef Symposium  
2008, Fort Lauderdale, Florida, 05.-  
12.07.2008

**M. Flitner**

2008 Berlin Conference on the Human Di-  
mensions of Global Environmental Change,  
Berlin, 21.-24.02.2008

**A. Fricke**

Dutch Conference for Coral Reef Research,  
University of Amsterdam, Amsterdam,  
16.-17.12.2007  
A Short Course in Tropical Field Phycology,  
Smithsonian Tropical Research Institute,  
Bocas Research Station, Bocas del Toro,  
Panama, 07.-25.07.2008

**M. Glaser**

Third Global Conference on Oceans, Coasts  
and Islands. Moving the Global Agenda  
forward, UNESCO, Paris, 22.-28.01.2006  
Die nationale Strategie zum Integrierten Kü-  
stenzonenmanagement und ihre Perspek-  
tiven, HdW, Bremen, 27.-28.04.2006  
GfÖ Jahrestagung 2006, Bremen, 11.-15.09.2006  
Seminar des Deutschen Hochschulverbundes  
zur Drittmittelinwerbung, Wissen-  
schaftszentrum, Bonn, 22.-23.01.2007  
Global Change, Environmental Governance  
and Multi-level Decision-making, DFG-  
Rundgespräch, Bonn, 07.-08.02.2007  
International Workshop on SPICE, Phase I,  
UNSOED, Indonesia, 26.-27.03.2007  
DGH Jahrestagung 2007, Sommerhausen a.M.,  
11.-12.05.2007

## Events

- Ecosummit 2007: Ecological Complexity and Sustainability: Challenges and Opportunities for 21st-Century's Ecology, Peking, VR China, 22.-27.05.2007
- 7<sup>th</sup> International Conference of the European Society for Ecological Economics (ESEE), UFZ, Leipzig, 05.-08.06.2007
- Umwelt als System – System als Umwelt? Systemtheorien auf dem Prüfstand, Universität Bonn, 15.-16.06.2007
- Resilience 2008, Stockholm, 13.-18.04.2008
- DGH Symposium 2008, Human/Nature Interactions in the Anthropocene, Sommerhausen, 28.-31.05.2008
- Coping with global change in marine socio-ecological systems, FAO, Rom, 07.-11.07.2008
- The 12<sup>th</sup> Biennial Conference of the International Association for the Study of Commons. Governing shared resources: connecting local experience to global challenges, Cheltenham, 15.-19.07.2008

### B. Grothe

- Eastern Boundary Upwelling Ecosystems, Las Palmas, Gran Canaria, 01.-07.06.2008

### V. Ittekkot

- UNESCO-IOC-WESTPAC Workshop, Phuket, Thailand, 18.-23.02.2006
- Internat. Workshop cum Training Course, UNSOED, Purwokerto, Indonesien, 05.-15.08.2006
- ACEMON Workshop, Phuket Marine Biological Centre, Phuket, Thailand, 23.09.-02.10.2006
- International Workshop on SPICE, Phase I, UNSOED, Indonesia, 26.-27.03.2007
- PACKMEDS, International Workshop, Delmenhorst, 01.-05.04.2007
- IAMRI-Conference, Pukyong National University, Südkorea, 07.-11.07.2007
- Gordon Research Conferences, Chemical Oceanography, Tilton, New Hampshire, USA, 04.-11.08.2007
- SCOR/LOICZ-Tagung, Shanghai, V.R. China, 20.-24.09.2007
- Alumni-Konferenz, Philippinen, 03.-09.11.2007
- Lenkungsausschußsitzung dt.-chin. Initiative zur Hochschulausbildung in den Meereswissenschaften, Qingdao, V.R. China, 25.-29.11.2007
- Delegation of German Minister for Education and Research to South Africa and Namibia, Cape Town, Pretoria, Stellenbosch,

Wietwaterstrand, South Africa, Windhoek, Hentiesbay and Walvisbay, Namibia, 02.02.-13.02.2008

- Delegation of German Minister for Education and Research to People's Republic of China, Peking, Shanghai/China, 13.-18.04.2008
- Bilateral Sino-German Steering Committee in Earth and Ocean Science, Bilateral Workshop on Remote Sensing, Peking, China, 23.05.-04.06.2008
- Jahrestagung WGL, Magdeburg, 27.-28.11.2008

### T. Jennerjahn

- International Workshop on SPICE, Phase I, UNSOED, Indonesia, 26.-27.03.2007
- L2L - Sustainable Neighbourhood –from Lisbon to Leipzig through Research, Leipzig, 07.-10.05.2007
- Scientific Conference Bien Dong on the occasion of the 85<sup>th</sup> anniversary of the Institute of Oceanography, Nha Trang, Vietnam, 12.-14.09.2007

### F. Keyl

- International Conference on Coastal Ecosystems, Towards and Integrated Knowledge or an Ecosystem Approach for Fisheries, Campeche, Mexiko, 26.-29.06.2006
- CalCoFI Symposium on invasion of *Dosidicus gigas* in Eastern Pacific waters, San Diego, Kalifornien, 25.-28.11.2007
- CLIOTOP (Climate Impact on Top Predators) Symposium, La Paz, Mexiko, 03.-07.12.2007

### L. Knittweis

- ACEMON, International Meeting, Phuket Marine Biology Center, Phuket, Thailand, 23.-29.09.2006
- SLAS Conference, Training Course, Bali, Makassar, Purwokerto, Jakarta, Indonesien, 11.11.-05.12.2006
- 1<sup>st</sup> International Symposium of Coral Husbandry in Public Aquaria, Burgers' Zoo, Arnheim, 18.-21.04.2007
- 11<sup>th</sup> International Coral Reef Symposium 2008, Fort Lauderdale, Florida, 29.06.-15.07.2008

### E. Krain

- Die nationale Strategie zum Integrierten Küstenzonenmanagement und ihre Perspektiven, HdW, Bremen, 27.-28.04.2006
- ACEMON-Meeting, Coastal Marine Ecosystems and their Management, Phuket Marine Biology Center, Phuket, Thailand,

23.-29.09.2006

Int. Workshop cum Trainingcourse on Coastal Ecosystem Hazard Management and Rehabilitation, UNSOED, Purwokerto, Indonesien, 08.-17.08.2006

International Symposium on Restoration and Developmant of Tsunami Affected Areas in Indonesia Fachhochschule Erfurt, 29.-31.01.2007

**G. Krause**

Die nationale Strategie zum Integrierten Küstenzonenmanagement und ihre Perspektiven, HdVV, Bremen, 27.-28.04.2006  
Projektmanagement, Fortbildung, Bremen, 26.-27.02.2007

Konferenz, Globaler Klimawandel und regionale Auswirkungen in Norddeutschland, Hamburg, 12.03.2007

ICES-Workgroup Meeting, Bedford Institute for Oceanography, Halifax, Kanada, 24.03.-02.04.2007

Umwelt als System – System als Umwelt? Systemtheorien auf dem Prüfstand, Universität Bonn, 15.-16.06.2007

European Society of Ecological Economics (ESEE) – Integrating Natural and Social Science for Sustainability, UFT Leipzig, 05.-08.06.2007

15<sup>th</sup> Conference of the Society for Human Ecology „Local Populations and Diversity in a Changing World“, Rio de Janeiro, Brasilien, 01.-09.10.2007

Fortbildung „Mitarbeiterführung“, Universität Bremen, 19.-20.09.2007 und 01.-02.11.2007

10<sup>th</sup> International Conference on Shellfish Restoration (ICSR) 2007, Institute for Marine Resources and Ecosystem Studies, 11.-16.11.2007

Resilience 2008, Stockholm, 12.-18.04.2008

DGH Symposium 2008, Human/Nature Interactions in the Anthropocene, Sommerhausen, 28.-31.05.2008

**U. Krumme**

1<sup>st</sup> International Symposium on Mangroves as Fish Habitats, Miami, Florida, 18.-25.04.2006

First International Symposium on Mangroves as Fish Habitats, Rosenstiel School of Marine and Atmosperic Science, University of Miami, Florida, 19.-21.04.2006

**A. Kunzmann**

1<sup>st</sup> International Symposium of Coral Husbandry in Public Aquaria, Burgers' Zoo, Arnheim, 18.-21.04.2007

Scientific Conference Bien Dong on the occasion of the 85<sup>th</sup> anniversary of the Institute of Oceanography, Nha Trang, Vietnam, 12.-14.09.2007

9<sup>th</sup> International Conference on Palaeoceanography, Shanghai, V.R. China, 01.-08.09.2007

Annual Meeting of the European Aquaculture Society, Istanbul, 23.-28.10.2007

11<sup>th</sup> International Coral Reef Symposium 2008, Fort Lauderdale, Florida, 06.-21.07.2008

**R. Lara**

Ecohydrology Meeting, Bukarest, 04.-08.2006

FAO/GLOBEC/Oceans Conference „Coping with Global Change in Marine Social-Ecological Systems“, FAO, Rom, 07.-10.07.2008

5<sup>th</sup> Meeting of the UNESCO European Working Group for Estuaries and Coastal Ecohydrology, Fisheries Research Institute, Kavala, Griechenland, 14.-18.09.2008

EM ECS-8, Harmonizing catchment and estuary, China East Normal University, Shanghai, VR China, 25.-31.10.2008

**L. Mark**

Heise-Netze-Konferenz, Hamburg, 20.09.2007

**I. Nordhaus**

International Workshop on Wet Tropics, Cairns, Daintree, Australien, 02.-06.07.2006  
Multivariate Statistics for Ecologists, Primer-E, Ltd., Plymouth, 28.10.-03.11.2007

**M. Nuges**

11<sup>th</sup> International Coral Reef Symposium 2008, Fort Lauderdale, Florida, 05.-12.07.2008

**D. Peterke**

EZChram-Schulung, Darmstadt, 18.-20.09.2006  
ICP-OES-Schulung, Fa Spectro, Kleve, 23.-27.20.2006

**H. Reuter**

Jahrestagung der GfÖ, Leipzig, 15.-18.09.2008

**C. Richter**

DFG-NRCT-Workshop, Bangkok, Phuket, Thailand, 27.07.-01.08.2006  
Deutsch-israelischer Workshop „High Biodiversity of the Gulf of Aqaba (Eilad) –

## Events

Origins, Dimensions and Protection“, Jerusalem, Israel, 14.-20.10.2006  
SPICE-LOICZ Konferenz, Dengasar, Bali, Indonesien, 12.-16.11.2006  
4<sup>th</sup> Japanese-German Frontiers of Science Symposium, Shonan Village Center, Japan, 01.-04.11.2007  
Biological Impacts of Ocean Acidification (BIOACID), IfM-GEOMAR, Kiel, 02.-03.04.2008

### T. Rixen

Einweisung VINDTA Software und Alkalinitätsmesstandard, Marianda, Kiel, 05.-07.09.2006  
SIBER-Workshop, National Institute of Oceanography, Goa Indien, 01.-08.10.2006  
European Geosciences Union, General Assembly 2007, Wien, 15.-20.04.2007

### C. Roder

11<sup>th</sup> International Coral Reef Symposium 2008, Fort Lauderdale, Florida, 05.-12.07.2008

### S. Rückert

International Workshop on SPICE, Phase I, UNSOED, Indonesia, 26.-27.03.2007

### U. Saint-Paul

19. Jahrestagung der GTÖ, Vorstandssitzung und Mitgliederversammlung, Kaiserslautern, 21.-24.02.2006  
Kongress- und Workshopteilnahme, University of Queensland, Brisbane, Dainbee, Cairns, Australien, 24.06.-04.07.2006  
10 Jahre WTZ BMBF-MOST & Jubiläumskonferenz, MOST, Hanoi, Vietnam & MRC, Phnom Pen, Kambodscha, 24.09.-05.10.2006  
Encontro Brasileiro de Ictiologia 2007, Itajai, Brasilien, 26.01.-03.02.2007  
GTÖ-Jahrestagung, Museum König, Bonn, 21.-25.02.2007  
XII. Congreso Latino-Americano Ciencias del Mar (COLACMAR), Florianopolis, Brasilien, 15.-19.04.2007  
Scientific Conference Bien Dong – 2007 on the occasion of the 85th anniversary of the Institute of Oceanography, Nha Trang, Vietnam, 12.-14.09.2007  
DELTA 2007 - Managing the coastal land-water interface in tropical delta systems, Bang Sean, Thailand, 05.-12.11.2007

Conferencia Magistral de Ecología de Manglares, INVEMAR, Santa Marta, Kolumbien, 31.01.2008

GTÖ-Jahrestagung, Präsidiumssitzung und Mitgliederversammlung, Stuttgart Hohenheim, 18.-22.02.2008

Launching ALFA III, DAAD, Bonn, 09.-10.04.2008

Asian Wetland Symposium 2008, Hanoi, Vietnam, 23.06.-01.07.2008

International Congress on Biodiversity of Africa: Observation and sustainable management for our future, Stellenbosch, Südafrika, 29.09.-03.10.2008

Umweltmesse FIEMA, Bento Gonçalves, Brasilien, 29.10.-01.11.2008

### Y. Sawall

11<sup>th</sup> International Coral Reef Symposium 2008, Fort Lauderdale, Florida, 05.-16.07.2008

### U. Selent

WGL-Workshop „Administrative Vernetzung“, WZB, Berlin, 22.-23.02.2007

WGL-Workshop „Umsatzsteuerrecht“, Zentrum für Europäische Wirtschaftsforschung, Mannheim, 18.-19.06.2007

Seminar „Einführung in die Kosten- und Leistungsrechnung“, Bremen, 28.-30.01.2008

WGL-Workshop zur Einführung von Kosten-Leistungsrechnung und Programmbudgets, Berlin, 02.-03.04.2008

Arbeitskreis Recht WGL, Bonn, 23.-24.10.2008  
Jahrestagung WGL, Magdeburg, 27.-28.11.2008

### M. Taylor

1. Workshop on the Management of the Scallop *Argopecten purpuratus*, 2. Workshop on the Management of the Fish *Merluccius peruanus*, Universidad La Agraria Molina, Lima, Peru, 11.03.-01.04.2008

### M. Teichberg

Dutch Conference for Coral Reef Research, University of Amsterdam, Amsterdam, 16.-17.12.2007

### D. Unger

SIBER-Workshop, National Institute of Oceanography, Goa Indien, 01.-08.10.2006  
PACKMEDS, International Workshop, Delmenhorst, 01.-05.04.2007

### P. Westhaus-Ekau

## Events

Konferenz „Deutsch-Chinesische Studienprogramme“, Gustav-Stresemann-Institut, Bonn, 18.10.2006

DAAD Fachkonferenz „go – out!“, Berlin, 10.-11.05.2007

2. Deutsch-chinesisches Bildungsforum, Hamburg, 25.09.2007

**M. Wolff**

Humboldt-Konferenz, Workshop, Lima, Pereira, Peru, 24.11.-09.12.2006

Conference on dynamics of eastern boundary upwelling ecosystems; integrative and comparative approaches, Las Palmas De Gran Canaria, 01.-07.06.2008

**A. Baum**

SPICE-Projekt, Beprobungskampagne, Pekanbaru, Sumatra, Indonesien, 21.03.-08.04.2006

SPICE-Projekt, Probennahme, Pekanbaru, Jakarta, Indonesien, 12.-22.11.2006

Expedition mit FS „Meteor“, Arabisches Meer, Heraklion, Griechenland, Fujairah, Vereinigte Arabische Emirate, 31.08.-09.10.2007

SPICE-Projekt, Beprobungskampagne, University of Riau, Sumatra, Indonesien, 06.03.-03.04.2008

**A. Baumgart**

SPICE-Projekt, Beprobung Segara Anakan Lagune, UNSOED, Purwokerto, Indonesien, 31.07.-29.08.2006

River-Reef-Interactions Projekt, Probennahme, NIO, Nha Trang, Vietnam, 20.08.-15.09.07

**U. Berger**

Can Gio-Projekt, Feld- und Laborarbeiten, University of Natural Sciences, Ho Chi Minh City, Vietnam, 19.03.-01.04.2006

**M. Birkicht**

Dr. Fridtjof Nansen-Expedition, Benguela Current Region, Walvis Bay, Namibia, 04.-23.02.2007

Expedition mit FS „Meteor“, Arabisches Meer, Dubai, Vereinigte Arabische Emirate, 31.09.-04.10.2007

**E. Borell**

SPICE-Projekt, Feldforschung, UNHAS, Makassar, Sulawesi, Indonesien, 14.11.2006-22.06.2007

**S. Bröhl**

Respirationsmessungen, Fiji/Sura, University of South Pacific, 12.03.-02.04.2006

River-Reef-Interactions Projekt, Feldforschung, Auswertung, NIO, Nha Trang, Vietnam, 20.08.-17.09.2007

River Reef Impact-Projekt, technische

Betreuung, NIO, Nha Trang, Vietnam, 12.05.-02.06.2008

**K. Diele**

Can Gio-Projekt, Feld- und Laborarbeiten, University of Natural Sciences, Ho Chi Minh City, Vietnam, 19.03.-01.04.2006

Datenanalyse, Bearbeitung gemeinsamer Publikationen, Kooperationsplanung, Fortaleza, Brasilien, 23.01.-06.02.2007

Can Gio-Projekt, Feld- und Laborarbeiten, Can Gio Mangrove Biosphere Reserve, University of Natural Science, Ho Chi Minh City, Vietnam, 06.12.2007-10.01.2008, 23.02.-31.03.2008 und 25.08.-21.09.2008

**L. Dsikowitzky**

LANCET-Projekt, Logistik Feldforschung, Haikou, Hainan, V.R. China, 22.07.-07.08.2007

LANCET-Projekt, Koordination Feldforschung, Haikou, Quinlan, Hainan, VR China, 19.07.-02.08.2008

**W. Ekau**

Dr. Fridtjof Nansen-Expedition, Benguela Current Region, Walvis Bay, Namibia, 04.-26.02.2007

**A. Fricke**

Makroalgen-Projekt, Feldforschung, CARMABI Foundation, Curaçao, 10.-31.10.2007

Freilandversuche, Probennahmen, Curaçao, Niederländische Antillen, 04.03.-21.05.2008

**T. Funke**

Feldforschung (CDT-Sonde), MSS, Aqaba, Jordanien, 21.11.-01.12.2007

ORCAS-Projekt, Feldforschung, PMBC, Phuket, Thailand, 03.03.-07.04.2008

**S. Geist**

Can Gio-Projekt, Feld- und Laborarbeiten, Can Gio Mangrove Biosphere Reserve, University of Natural Science, Ho Chi Minh City, Vietnam, 26.02.-26.03.2008

## Research Stays and Expeditions

## C. Herbon

SPICE-Projekt, Feldforschung und Workshop-  
teilnahme, UNSOED, Purwokerto, Java,  
Indonesien, 04.02.-17.05.2008

SPICE-Projekt, Feldforschung, UNSOED,  
Purwokerto, Indonesien, 06.08.-31.10.2008

## R. Herrmann

SPICE-Projekt, Probennahme Segara Anakan  
Lagune und Workshopteilnahme, UNSOED,  
Purwokerto, Indonesien, 04.02.-23.03.2008

SPICE-Projekt, Felduntersuchungen Segara  
Anakan Lagune, UNSOED, Purwokerto,  
Indonesien, 02.09.-25.10.2008

## C. Jantzen

Feldforschung für Promotion, MSS, Aqaba,  
Jordanien, 12.-21.12.2007

ORCAS-Projekt, Feldforschung Similan Islands,  
PMBC, Phuket, Thailand, 12.02.-31.03.2008

## I. Jänen

Madura-Monitoring, Probennahmen, Ost-Java,  
Indonesien, 25.08.-23.09.2007

SPICE-Projekt, Expedition Madura-Monitoring,  
Probennahme, Surabaya, Indonesien, 24.02.-  
21.03.2008 und 14.07.-16.08.2008

## T. Jennerjahn

SPICE-Projekt Beprobung Segara Anakan  
Lagune, Workshop UNSOED, Purwokerto,  
Indonesien, 13.01.-28.01.2006 und 31.07.-  
16.08.2006

LANCET-Projekt, Feldarbeiten, Hainan, China,  
03.-14.12.2006

SPICE-Workshop, Expedition Brantas-Madura-  
straße, UNSOED, Purwokerto, Surabaya,  
Indonesien, 23.03.-05.04.2007

Zuckerrohr-Projekt, Koordination und Ex-  
pedition, UFAL, Maceio, Brasilien, 28.02.-  
10.03.2007

SPICE-Projekt, Expedition Segara Anakan  
Lagune, UNSOED, Purwokerto, Bogor,  
Jakarta, Indonesien, 11.-26.09.2007

SPICE-Projekt, Workshop, Forschungsarbeiten,  
UNSOED, Purwokerto, BPPT, Surabaya,  
Indonesien, 25.02.-06.03.2008

LANCET-Projekt, Workshop u. Feldforschung,  
Haikou, Qinglan, Hainan, V.R. China, 26.07.-  
01.08.2008

## C. Herbon

SPICE-Projekt, Feldforschung in Segara Anakan,  
UNSOED, Purwokerto, Indonesien, 11.09.-  
04.10.2007

## R. Herrmann

SPICE-Projekt, Feldforschung in Segara Anakan,  
UNSOED, Purwokerto, Indonesien, 11.09.-  
04.10.2007

## F. Keyl

Feldarbeiten, Datenbearbeitung, Humboldt-  
Current-Conference, IMARPE, Lima,  
Peru, 15.11.2006-16.03.2007

Feldarbeiten, Datenbearbeitung, IMARPE, Lima,  
Peru, 15.09.-20.11.2007

Datenbearbeitung, Universidad Arturo Prat,  
Iquique, Chile, 25.10.-06.11.2007

Kooperationsfortführung, Projektentwicklung,  
Veröffentlichungen, Universidad de Con-  
cepción, Santiago de, Chile, IMARPE, Lima,  
Peru, 13.03.-17.05.2008

CENSOR-Projekt, Feldarbeiten, Lima, Peru,  
Galapagos, Ecuador, 07.09.2008-28.02.2009

## S. Kleinertz

SPICE-Projekt, Feldforschung in Segara Anakan,  
UNSOED, Purwokerto, Indonesien, 11.09.-  
04.10.2007

## L. Knittweis

SPICE-Projekt, Feldarbeiten, Universitas  
Hasanuddin, Makassar, Indonesien, 04.03.-  
18.07.2006 und 27.09.2006-07.02.2007

SPICE-Projekt, Probennahme Segara Anakan  
Lagune und Workshopteilnahme, Center  
for Coral Reef Research, UNHAS, Makas-  
sar, Indonesien, 27.02.-18.03.2008

## G. Krause

SPICE-Projekt, Workshopteilnahme und  
Feldforschung, CCRR, UNHAS, Makassar,  
Indonesien, 28.02.-08.03.2008

## U. Krumme

LANCET-Projekt, Feldarbeiten, Hainan, China,  
02.-16.12.2006

ORCAS-Projekt, Schiffsexpedition, Similan  
Islands u. Andaman Sea, PMBC, Phuket,  
Thailand, 14.-24.02.2007

Feldarbeiten, Belém, Bragança, Brasilien, 25.05.-  
28.06.2007

LANCET-Projekt, Feldarbeiten an der Ostküste  
von Hainan, V.R. China, 08.08.-05.10.2007  
Artenidentifikation von Fischen, Senckenberg-  
museum, Frankfurt a.M., 28.-30.01.2008

Feldforschung, UFPa, Belém, Bragança, Brasilien,  
28.03.-14.04.2008

LANCET-Projekt, Logistik und Feldforschung,  
Hainan, VR China, 19.07.-03.08.2008

### L. Krupp

LANCET-Projekt, Feldarbeiten an der Ostküste von Hainan, Hainan, V.R. China, 08.08.-30.08.2007

LANCET-Projekt, Workshop, Feldforschung, Quinlan, Hainan, VR China, 19.07.-28.08.2008

### A. Kunzmann

Fang und Hälterung von Scorpaeniden, Hydra Institute, Elba, 04.-08.10.2006

River-Reef-Impact Projekt, Feldforschung, Auswertung, NIO, Nha Trang, Vietnam, 20.08.-11.09.07 und 12.05.-04.06.2008

### R. Lara

Can Gio-Projekt, Feld- und Laborarbeiten, University of Natural Sciences, Ho Chi Minh City, Vietnam, 20.-31.03.2006

BIOVIBAN-Projekt, Feldforschung in Chittagong, Laborarbeiten, ICDDR, , Bangladesh, 06.-24.05.2007

Feldforschung, Doktorandenbetreuung, Infrastruktur, UFPa, Belém, Brasilien, 02.-19.07.2007

BIOVIBAN-Projekt, Feldforschung und Koordination der Laboraktivitäten, ICDDR, Dhaka, Bangladesh, 28.11.-07.12.2007

BIOVIBAN-Projekt, Laboranalysen, Osaka Prefectural University, Osaka, Japan, 08.-19.12.2007

La Plata River Wetlands, Feld- und Laborarbeiten, Universität Buenos Aires, Argentinien, 12.-24.04.2008

Betreuung laufender Arbeiten, Projektanbahnung, ICDDR, Dkaka, Bangladesch, NICBD, Kalkutta, Indien, 18.-31.05.2008

Projektanbahnung, Feldbegehung, Evaluierung der Infrastruktur, IMARPE, Lima, Tumbes, Peru, 05.-19.10.2008

### M. Lukas

SPICE-Projekt, Feldforschung, Kartierungsmaßnahmen, Interviews, Makassar, West- und Zentraljava, Purwokerto, Indonesien, 18.02.-06.06.2008

Auswertung hist. Kartenmaterials, TU Dresden, 10.-13.07.2008

### O. Morisse

SPICE-Projekt, Beprobung Segara Anakan Lagune, UNSOED, Purwokerto, Indonesien, 13.01.-16.02.2006 und 27.07.-22.08.2006

### I. Nordhaus

SPICE-Projekt, Expedition und Beprobung Segara Anakan Lagune, Workshop, UNSOED, Purwokerto, Indonesien, 13.01.-11.02.2006 und 31.07.-01.09.2006

Taxonomische Arbeiten, Museum König, Bonn, 14.-15.02.2007

SPICE-Workshop und Feldarbeiten Segara Anakan & Brantas, UNSOED, Purwokerto, Surabaya, Indonesien, 23.03.-07.04.2007

SPICE-Projekt, Expedition Segara Anakan Lagune, UNSOED, Purwokerto, Indonesien, 11.-28.09.2007, 04.02.-02.03.2008 und 02.09.-05.10.2008

### M. Nugues

LANCET-Projekt, Workshop, Feldforschung, Hainan, VR China, 28.07.-10.08.2008

SPICE-Projekt, Feldarbeiten, UNHAS, Makassar, Indonesien, 03.-17.09.2008

### D. Peterke

BIOVIBAN-Projekt, Feldforschung in Chittagong, Laborarbeiten, ICDDR, Dhaka, Bangladesh, 06.-24.05.2007 und 28.11.-14.12.2007

Can-Gio-Projekt, Labor und Wartung von Meßgeräten, Universität für Naturwissenschaften, Ho Chi Minh City, Vietnam, 14.-20.12.2007

### C. Propp

SPICE-Projekt, Feldforschung, Probennahme, Surabaya, Dinas, Pangairan, Indonesien, 25.03.-26.04.2007 und 25.08.-23.09.2007

SPICE-Projekt, Feldarbeiten, Surabaya, Indonesien, 24.02.-03.04.2008 und 14.07.-07.09.2008

### C. Richter

Feldarbeiten Similan-Inseln, Marine Biological Center, Phuket, Thailand, 16.-29.11.2006

LANCET-Projekt, Kick-off meeting, Feldarbeiten, Haikou u. Tanmen, Hainan, China, 03.-12.12.2006

Andamanen-Projekt, Forschungsexpedition, PMBC, Phuket, Thailand, 12.02.-12.03.2007

ORCAS-Projekt, Feldarbeiten, PMBC, Phuket, Thailand, 16.-31.10.2007

Feldarbeit, Gerätetest, Projektentwicklung, MSS, Aqaba, Jordanien, Nabq, Ägypten, 20.11.-12.12.2007

### T. Rixen

Tsunami-Folgen auf den Andamanen, Chennai, Port Blair, Indien, 12.-25.03.2006

## Research Stays and Expeditions

SPICE-Projekt, Probennahme, Pekanbaru, Indonesien, 26.03.-08.04.2006

SPICE-Projekt, Feldarbeiten, Kick-off meeting, Denpasar, Bali, Pekanbaru, Sumatra u. Jakarta, Indonesien, 12.-22.11.2006

LANCET-Projekt, Kick-off meeting, Feldarbeiten, Haikou u. Tanmen, Hainan, China, 02.-12.12.2006

Expedition mit FS „Meteor“, Arabisches Meer, Dubai, Vereinigte Arabische Emirate, 16.-09.10.2007

SPICE-Projekt, Probennahme, Pekanbaru, Sumatra, Indonesien, 22.03.-03.04.2008 und 27.10.-22.11.2008

### C. Roder

LANCET-Projekt, Kick-off meeting, Feldarbeiten, Haikou u. Tanmen, Hainan, China, 02.-16.12.2006

ORCAS-Projekt, Feldforschung, Schiffsexpedition, Similan Islands u. Andaman Sea, PMBC, Phuket, Thailand, 03.02.-31.03.2007

LANCET-Projekt, Feldarbeiten an der Ostküste von Hainan, Hainan, V.R. China, 21.08.-18.09.2007

Isotopenanalysen, GeoBioCenter, Universität München, 07.-14.12.2007

ORCAS-Projekt, Feldforschung, PMBC, Phuket, Thailand, 12.02.-03.04.2008

LANCET-Projekt, Workshop, Feldforschung, Quinlan, Hainan, V.R. China, 28.07.-20.08.2008

Isotopenmessungen, Naturkundemuseum Berlin, 19.-22.11.2008

### S. Rückert

SPICE-Projekt, Probennahme, Workshop, UNSOED, Purwokerto, Indonesien, 19.01.-20.02.2006

SPICE-Projekt, Probennahme, Purwokerto, Bandar Lampung, Indonesien, 19.07.-19.09.2006

### U. Saint-Paul

Can Gio-Projekt, Feld- und Laborarbeiten, University of Natural Sciences, Ho Chi Minh City, Vietnam, 19.-31.03.2006

Feldexkursion, Projektgespräche, INVEMAR, Santa Marta, Kolumbien, 21.01.-01.02.2008

### Y. Sawall

SPICE-Projekt, Feldforschungsarbeiten, CCRR, Makassar, Indonesien, PMBC, Phuket, Thailand, 17.10.-21.11.2007 und 06.03.-14.05.2008

SPICE-Projekt, Feldforschung, UNHAS, Makassar,

Indonesien, 15.06.-01.07.2008 und 25.08.-19.11.2008

### G. Schmidt

Feldarbeiten Similan Inseln, Marine Biological Center, Phuket, Thailand, 16.-29.11.2006

### C. Schultz

SPICE-Projekt, Forschungscoordination, Yogyakarta, Purwokerto, Bogor, Jakarta, Indonesien, 26.08.-18.09.2008

### K. Schwerdtner Máñez Costa

SPICE-Projekt, Probennahme Segara Anakan Lagune und Workshopteilnahme, UNSOED, Purwokerto, Pandang, Indonesien, 25.02.-03.03.2008

### U. Selent

SPICE-Projekt, Besichtigung Untersuchungsgebiet und geplante Feldstation, UNSOED, Purwokerto, Cilacap, Bali, Indonesien, 11.-21.08.2006

### G. Spörl

LANCET-Projekt, Kick-off meeting, Feldarbeiten, Haikou u. Tanmen, Hainan, China, 02.-14.12.2006

Zuckerrohr-Projekt, Expedition, Probennahme, UFAL, Maceió, Brasilien, 03.-27.03.2007 und 19.09.-22.10.2007

Zuckerrohr-Projekt, Probennahme, UENF, Campos, UFAL, Maceió, Brasilien, 28.01.-16.03.2008 und 07.08.-04.11.2008

### K. Springer

LANCET-Projekt, Kick-off meeting, Feldforschung, Haikou u. Tanmen, Hainan, China, 02.-14.12.2006

### Chr. Staschock

LANCET-Projekt, Feldforschung, Hakou u. Qinglan, Hainan, V.R. China, 27.07.-28.08.2008

### M. Taylor

Feldarbeiten, CENSOR-Meeting, Concepción, Chile, Instituto del Mar del Peru, IMARPE, Peru, 01.09.-20.12.2006

### M. Teichberg

SPICE-Projekt, Feldforschung, Coral Reef Research Center, Hasanuddin University, Makassar, Indonesien, 17.10.-13.11.2007 und 03.09.-06.10.2008

**D. Unger**

LANCET-Projekt, Kick-off meeting, Feldarbeiten, Hainan, China, 03.-13.12.2006, 08.-20.08.2007 und 19.-31.07.2008

**K. Bischof**

SPICE-Projekt, Kooperationsplanung mit indon. Institutionen, BRRP & AMFR, Jakarta, BFA and Marine and Fisheries North Sulawesi Province, Manado, Indonesien, 08.-18.09.2007

**E. Borell**

International Workshop on SPICE, Phase I, UNSOED, Indonesia, 26.-27.03.2007

**C. Brandt**

Informationsgespräche zur Aquakultur und Transport lebender Tiere Zoo Rotterdam, 14.-16.11.2006

Kooperationsvorhaben und Tiertransport, Sealife, München, 06.-09.10.2007

Transport lebender Tiere, Lingewaal, Holland, 11.-12.02.2008

**R. Chero**

CENSOR-Projekt, Steering Committee Meeting, Symposium, Planungsgespräche, Exkursionen, Universidad de Antofagasta, Valparaiso, Chile, Lima, Chimbote, Casma, Peru, 30.08.-05.10.2006

CENSOR-Projekt, Universidad Agraria La Molina, Lima, Peru, 05.-16.10.2007

**D. Dasbach**

Methodenabgleich, IOW, Warnemünde, 20.-21.11.2007

**W. Ekau**

ECORAYA-Projekt, Abschlußworkshop, INIDEP, Mar del Plata, Argentinien, 12.-20.03.2006

ABF-BENEFIT Workshop, Swakopmund, Namibia, 29.03.-06.04.2006

IKZM-Projekt, 2. Steering Group meeting, EU, Brüssel, 03.-04.05.2006

EU-IKZM-Projekt, 3. Steering Group meeting, EU, Brüssel, 27.-28.06.2006

Vorbereitung des DFG-Projektes Connectivity, Belém, São Luis, Parnaíba, Mossoró, Fortaleza, João Pessoa, Recife, Maceio, Aracajú, São Paulo, Brasilien, 04.-26.11.2006

Projektfindung, Nairobi, Kenia, 08.-16.11.2008

**S. Ferse**

SPICE-Projekt, Evaluierung eines Pilotprojektes, UNHAS, Makassar, Spermonde Archipel, Indonesien, 05.-18.08.2008

**M. Flitner**

SPICE-Projekt, Kooperationsplanung mit indon. Institutionen, BRRP & AMFR, Jakarta, BFA and Marine and Fisheries North Sulawesi Province, Manado, Indonesien, 05.-18.09.2007

SPICE-Projekt, Kick-off-Workshop SPICE-Cluster VI, Hasanuddin University, Makassar, Südsulawesi, 01.-09.03.2008

**A. Fricke**

Vorbereitung Expedition Curaçao, NIOZ, Texel, 18.-20.07.2007 und 28.-29.11.2007

**M. Glaser**

Anbahnungs- und Kooperationsgespräche, Makassar, Süd Sulawesi, Bunghatta University, Padang, Sumatra, Indonesien, 19.03.-06.04.2006

SPICE-LOICZ Konferenz, Vorbereitung, GKSS, Geesthacht, 13.-14.06.2006

SPICE-LOICZ Konferenz, Vorbereitung & Globalisierung Brasilien, Kreditanstalt für Wiederaufbau, Berlin, 26.-27.09.2006

Vorbereitung Workshop Padang, Humboldt Universität Berlin, 26.-28.10.2006

Konferenzen, Forschungsplanung, Denpasar, Padang, Pekanbaru, Bali, Indonesien, 12.11.-10.12.2006

SPICE-Projekt, Workshop, Koordination, Jakarta, Pekanbaru, Bogor, Indonesien, 20.-29.03.2007

Anbahnungsgespräche, Ecosummit 2007 Mingbao, Quinddao, Beijing, V.R. China, 14.-26.05.2007

Vorbereitung DGH-Jahrestagung 2008, München, 13.-15.08.2007

SPICE-Projekt, Kick-off Workshop, Makassar, Indonesien, 27.02.-09.03.2008

SPICE-Projekt, Kick-off Meeting, Pekanbaru, Sumatra, Indonesien, 07.-15.11.2008

## • Research Stays and Expeditions

## • Project Meetings

## V. Ittekkot

- UNESCO-IOC-WESTPAC, Workshop „Impact of Tsunami on Coastal Ecosystems“, Phuket, Thailand, 18.-23.02.2006
- Sino-German Masterprogramm, Summer School, Vorbereitung IAMRI-Conference, Ocean University of China, Qingdao, China, 27.05.-03.06.2006
- LANCET-Projekt, Kick-off meeting, Hainan, Haikou, Tanmen, China, 30.11.-08.12.2006
- SPICE-Projekt, Besprechungen zweite Phase, BPPT & DKP, Jakarta, Indonesien, 25.-30.12.2006
- Kooperationen im Rahmen von SCOPE und ICSU, Paris, 27.-28.06.2007
- MoU with PMBC, PMBC, Phuket, Thailand, 11.-13.07.2007
- Kooperationsgespräche, Institute of Ocean Management u. National Institute of Ocean Technology, Chennai, Indien, 13.-21.07.2007
- SPICE-Projekt, Kooperationsplanung mit indon. Institutionen, BRRP & AMFR, Jakarta, BFA and Marine and Fisheries North Sulawesi Province, Manado, Indonesien, 09.-13.09.2007
- LANCET-Projekt Präsentation, Shanghai, V.R. China, 20.-24.09.2007
- Kooperationsgespräche, Interuniversity Institute, Eilath, Hebrew University, Jerusalem, Israel, 11.-14.10.2007
- Lenkungsausschußsitzung dt.-chin. Initiative zur Hochschulausbildung in den Meereswissenschaften, Qingdao, V.R. China, 25.-29.11.2007
- SPICE-Projekt, Koordination ,DKP, Jakarta, Indonesien, 27.-31.12.2007
- SPICE-Projekt, Vorbereitung Lenkungsausschußsitzung, Workshops u. Besprechung World Ocean Conference 2009, Jakarta, Indonesien, 21.-25.07.2008
- LANCET Workshop Vorbereitungen, Hainan, Haikou, Hainan, China, 29.07.-31.08.2008

## I. Jänen

- SPICE-Projekt, Vorbereitung Lenkungsausschußsitzung, Workshops u. World Ocean Conference 2009, Jakarta, Indonesien, 21.-25.07.2008

## T. Jennerjahn

- MADURA-Monitoring- Projekt, Kick-off-Meeting, SPICE-LOICZ Konferenz, BPPT, Surabaya, Bali, Indonesien, 07.-17.11.2006
- Projektentwicklung, laufende Vorhaben, Asian Fisheries Forum, Kochi; CESS, Trivandrum;

NIO, Goa, Indien, 19.-28.11.2007

- SPICE-Projekt, Planungs- und Koordinierungsgespräche, UNSOED, Purwokerto, IPB Bogor, BPPT, DAAD u. Deutsche Botschaft, Jakarta, Indonesien, 08.-19.09.2008

## F. Keyl

- Kooperations- & Projektanbahnung, CIBNOR, La Paz, Mexiko, 07.-10.12.2007

## S. Kleinertz

- SPICE-Projekt, Vor- und Nachbereitung der Feldforschung, Universität Düsseldorf, 11.-15.02.2008 und 27.08.-24.10.2008

## L. Knittweis

- Internat. Workshop, Training Course, Vorbereitung Bali Konferenz, UNSOED, Purwokerto, Indonesien, 11.-14.08.2006
- SPICE II, Kick-Off-Workshop, Centre for Coral Reef Research, UNHAS, Makassar, Indonesien, 03.-04.03.2008

## E. Krain

- SPICE-LOICZ Konferenz, Vorbereitung, GKSS, Geesthacht, 13.-14.06.2006
- EU-IKZM-Projekt, Workshop-Vorbereitung, Rupprecht Consult, Köln, 12.06.2006 und 13.07.2006

## G. Krause

- IKZM-Projekt, 2. Steering Group meeting, EU, Brüssel, 03.-04.05.2006
- SPICE-LOICZ Konferenz, Vorbereitung, GKSS, Geesthacht, 13.-14.06.2006
- SPICE-Projekt, Kick-off-Workshop SPICE-Cluster VI, Hasanuddin University, Makassar, Südsulawesi, 03.-04.03.2008

## U. Krumme

- MADAM-Projekt, Publikationsarbeiten mit Co-Autoren, Belém, Brasilien, 19.12.2006-22.01.2007

## A. Kunzmann

- Shrimp-Projekt, Aquakultur, IGV mbH, Berlin, 14.-15.06.2007
- Projektentwicklung, laufende Vorhaben, Asian Fisheries Forum, Kochi; CESS, Trivandrum; NIO, Goa, Indien, 19.-28.11.2007
- Kooperation Korallenaufzucht, Burger Zoo, Arnheim/Groningen, 12.-13.02.2008
- Taxonomie und Publikationsgespräche, Museum A. König, Bonn, 30.-31.10.2008

**R. Lara**

Management in der Karibik, Welt Bank, Washington D.C., USA, 18.-24.04.2006

Lehre & Publikation, Belém, Brasilien, 02.-18.05.2006

Konferenzteilnahme, Projektplanung, Fukuoka, University of Nagoya, Japan, 26.08.-06.09.2006

**M. Lukas**

SPICE-Projekt, Kick-off-Workshop SPICE-Cluster VI, Hasanuddin University, Makassar, Südsulawesi, 29.02.-09.03.2008

**I. Nordhaus**

International Workshop on SPICE, Phase I, UNSOED, Indonesia, 26.-27.03.2007

**C. Richter**

Vorbereitung Projektskizze, Ocean Research Institute, University of Tokyo, Japan, 05.-07.11.2007

**S. Rückert**

SPICE-Projekt, Abschlußworkshop, Bandar Lampung, UNSOED, Purwokerto, Indonesien, 11.03.-03.04.2007

**U. Saint-Paul**

BIOLOG-Begutachtung, 3. Phase, Bonn, 05.-07.09.2006

MADAM-Projekt, Nachbereitung, WTZ-Projekte, Belém, Bragança, Recife, Brasilien, 31.01.-16.02.2006

Vorbereitung des DFG-Projektes Connectivity, Belém, São Luis, Parnaíba, Mossoró, Fortaleza, João Pessoa, Recife, Maceio, Aracajú, São Paulo, Brasilien, 04.-26.11.2006

Projektanbahnung, Can-Gio Projekt, Koordination, Phuket, Thailand, Phnom Pen, Kambodscha, Ho Chi Minh City & Nha Trang, Vietnam, 03.-17.09.2007

Koordination, Gespräche mit Regierungsvertretern, Umweltmesse, Brasília, Belém, Bento Gonçalves, Brasilien, 20.10.-02.11.2008

**C. Schnack**

29. Sitzung der Arbeitsgemeinschaft meereskundlicher Bibliotheken, IOW, Warnemünde, 05.-06.11.2006

**M. Taylor**

CENSOR-Projekt, Workshopteilnahme, Universidad Agraria La Molina, Lima, Peru, 11.03.-01.04.2008

Kooperationsgespräche, Lehrtätigkeit, Charles Darwin Foundation, Galapagos, Ecuador, 10.07.-31.08.2008

CENSOR-Projekt, Abschluss-symposium, Vorbereitung und Teilnahme, IMARPE, Lima, Peru, 01.-19.09.2008

**M. Teichberg**

Marine Botany Workgroup Meeting, AWI, Sylt, 13.-15.02.2008

CARMAB-Projekt, Publikationen, Woods Hole, Boston, Curaçao, Niederländisch Antillen, 01.03.-14.04.2008

**P. Westhaus-Ekau**

Sino-German Masterprogramm, Summer School, Vorbereitung IAMRI-Conference, Ocean University of China, Qingdao, China, 27.05.-03.06.2006

Studienstart des Sino-German Masterprogrammes, Ocean University of China, Qingdao, China, 28.10.-03.11.2006

China-Kooperation, Vorbereitung Delegationsbesuch u. Planung Summer School, IfM-GEOMAR, Kiel, 12.-13.12.2006

Koordination des deutsch-chinesischen Masterprogrammes, OUC, Qingdao, VR China, 15.-21.05.2007

Visa-Angelegenheiten, I. Lenkungsausschußsitzung dt.-chin. Initiative zur Hochschulbildung in den Meereswissenschaften, Deutsche Botschaft, Beijing & Qingdao, V.R. China, 22.11.-01.12.2007

Weiterentwicklung der dt.-chin. Ausbildungskooperation, Qingdao, Ocean University of China, V.R. China, 25.04.-05.05.2008

4. Deutsch-Chinesische Sommerschule, 2. Lenkungsausschuß-Sitzung, MSc-Abschluss, geplanter Studentenaustausch, Qingdao, Ocean University of China, V.R. China, 26.07.-11.08.2008

**M. Wolff**

CENSOR-Projekt, Universidad La Molina, Pisco, Peru, 22.02.-23.03.2006

CENSOR-Projekt, Steering Committee Meeting, Symposium, Planungsgespräche, Universidad de Antofagasta, Chile, 01.-17.09.2006

CENSOR-Projekt, Arbeitsgruppen-Treffen, Management-Workshop, Trainingskurs, IMARPE, Lima, Pisco, Piura, Peru, 19.02.-13.03.2007

CENSOR-Abschluss-symposium, IMARPE, Lima, Peru, 08.-10.09.2008

## Visitors and Guest Researchers

- Dr. Somkiat **Khokiattiwong**, PMBC, Phuket, Thailand, 09.-15.01.2006
- Dr. Xianwei **Bu**, Second Institute of Oceanography, Key Lab. of Ocean Dynamic Processes and Satellite Oceanography (SOA), Hangzhou, China, 09.-26.01.2006
- Dr. Pramot **Sujisuporns**, Marine Science Dept., Chulalongkorn Universität Bangkok, Thailand, 10.-15.01.2006
- MSc. Daroonwan **Sakuna**, Phuket Marine Biological Center, Phuket, Thailand, 10.01.-01.02.2006
- MSc. Patcharee **Khrukhayan**, Phuket Marine Biological Center, Phuket, Thailand, 10.01.-01.02.2006
- MSc. Jiraporn **Charoenvattanaporn**, Phuket Marine Biological Center, Phuket, Thailand, 10.01.-01.02.2006
- MSc. Vararin **Vongpanich**, Phuket Marine Biological Center, Phuket, Thailand, 10.01.-01.02.2006
- Dr. Maitree **Duangwasdi**, Staatssekretär Umweltministerium Thailand, Bangkok, Thailand, 27.-28.01.2006
- Dr. Aceng **Hidayat**, Center for Coastal and Marine Resources, Bogor Agricultural University (IPB), Indonesien, 31.01.-28.02.2006
- Dona **Paula**, Goa, Indien, 01.-29.03.2006
- Dr. Guiling **Zhang**, College of Chemistry and Chemical Engineering, Ocean University of China, Qingdao, China, 11.-15.03.2006 & 29.-31.03.2006
- Dr. Wajih **Naqvi**, Head, Chemical Oceanography, National Institute of Oceanography, 01.-29.03.2006
- Prof. Jing **Zhang**, State Key Laboratories for Estuarine and Coastal Research, East China Normal University, Shanghai, China, 24.03.-04.04.2006
- Quynh Huong **Pham**, Vietnam National University Ho Chi Minh City, Vietnam, 01.04.-29.06.2006
- Yus Budiyo Abdul Rohman**, BPPT, Jakarta, Indonesien, 07.04.-12.05.2006
- Thi Gia Hang Nguyen**, National University in Ho Chi Minh, 15.05.-15.07.2006
- Ngoc Diem My Tran**, National University in Ho Chi Minh, 15.05.-15.07.2006
- Dr. Fidel **Castro Diaz-Balart**, Wissenschaftlicher Berater des Präsidenten von Kuba, Kuba, 25.05.2006
- Gerardo **Peñalver**, Botschafter der Republik Kuba, Berlin, 25.05.2006
- MSc. Aidah A. **Husain**, Hasanuddin, University, Makassar Indonesien, 30.05.-29.06.2006
- MSc. Andi **Oetomo**, Institute of Technology Bandung, Indonesien, 31.05.-17.06.2006
- Dr. Luky **Adrianto**, Agricultural University Bogor, Indonesien, 31.05.-25.06.2006
- Jingling **Ren**, College of Chemistry and Chemical Engineering, Ocean University of China, Qingdao, China, 07.06.-06.07.2006
- Dr. Ehrlich **Desa**, Chief, IOC Capacity Development Section, Intergovernmental Oceanographic Commission, Paris, 28.-30.06.2006
- Dr. Miguel D. **Fortes**, Coordinator, University of Philippines, Quezon City, Philippines, 28.06.-01.07.2006
- Prof. Dr. Nguyen **Tac An**, Institute of Oceanography, Nha Trang, Vietnam, 29.06.-05.08.2006
- Dr. Silvia **Schwamborn**, University of Bahia State, Education Department, Recife, Brasilien, 01.07.2006-24.10.2007
- Dr. Volker **Koch**, Centro de Estudios Costeros, Pto. Acapulco, Puerto San Carlos, Mexiko, 04.-11.07.2006
- Dr. Jaime **Mendo**, Universidad Nacional Agraria La Molina, Lima, Peru, 31.07.-05.08.2006
- Prof. Dr. D. **Viswanathan**, Anna University, Indien, 23.-26.08.2006
- Dr. R. **Jayavel**, Director, International Affairs, Anna University, Indien, 23.-26.08.2006
- Prof. Dr. R. **Ramesh**, Director, Institute for Ocean Management, Anna University, Indien, 23.-26.08.2006
- Sakhile **Tsotsobe**, Marine and Coastal Management, Kapstadt, Südafrika, 15.09.-02.10.2006
- Prof. Dr. Addison **Lawrence**, Mariculture Laboratory Port Aransas, University, Texas, USA, 15.-18.09.2006
- Prof. Dr. Ramesh **Ramachandran**, Director, Institute for Ocean Management, Anna University, Chennai, Indien, 15.-30.09.2006
- Prof. Dr. Purjva **Ganapathy** (Ms.), Institute for Ocean Management, Anna University, Chennai, Indien, 16.09.-08.10.2006
- Dr. Niphon **Phongsuwan**, Phuket Marine Biological Center, Phuket, Thailand, 18.-28.09.2006
- Prof. Balasubramonian **Garudswara**, Center for Earth Science Studies, Trivandrum, Indien, 23.09.-03.11.2006
- Dr. Claudio **Franzosi**, Universidad de Buenos Aires, Buenos Aires, Argentinien, 18.10.-13.11.2006
- Ajay Kumar Ray**, Institute for Ocean Management, Anna University, Chennai, Indien, 10.11.-24.11.2006,

- B. **Senthilkumar**, Institute for Ocean Management, Anna University, Chennai, Indien, 10.11.-24.11.2006
- Prof. Horacio **Schneider**, UFPa, Bragança, Brasilien, 27.11.-23.12.2006
- Prof. Iracilda **Sampaio**, UFPa, Bragança, Brasilien, 27.11.-23.12.2006
- Wilsea **Batista de Figueiredo**, UFPa, Bragança, Brasilien, 27.11.-23.12.2006
- Dr. Claudio **Szlafsztein**, UFPa Belém, Brasilien, 13.-23.12.2006
- Dr. Magdalena **Litaay**, Hasanuddin Universität, Süd-Sulawesi, Makassar, Indonesien, 21.-27.01.2007
- Cleise **Cordeiro**, UFPa, Belém, Brasilien, 29.01.-14.03.2007
- Dr. Illka C. **Feller**, Smithsonian Environmental Research Center (SERC), Edgewater MD, USA, 14.-16.03.2007
- Mr. Sanromo **Widjayanto**, Head of Program Division, Center for Marine and Fisheries Education, Ministry of Marine Affairs and Fisheries, Agency for Marine and Fisheries, Jakarta, Indonesien, 23.04.-12.05.2007
- Dr. **Suraryanto**, Vice Chairman for Student Affairs, Jakarta Fisheries University, Indonesien, 23.04.-12.05.2007
- Dr. Ajit **Sinh Baji Patil**, Panoram Aquaculture Forms Ltd., Mumbai, Indien, 06.-09.05.2007
- R.A. **Sreepada**, Aquaculture Laboratory National Institute of Oceanography, Goa, Indien, 06.-09.05.2007
- Mochamad **Saleh Nugrahadi**, BPPT, Jakarta, Indonesien, 19.05.-17.06.2007
- Dr. Nic **Smole**, Universität Gent, Postgraduate International Nematology Course, Gent, 13.-15.06.2007
- Dr. Wannakiat **Thubthimsang**, Phuket Marine Biological Center, Phuket, Thailand, 13.-15.06.2007
- Prof. Arun P. **Kulshreshtha**, Director, NAM S & T Centre, New Delhi, Indien, 17.-23.06.2007
- Dr. Victoria **Isaac**, UFPa, Belém, Brasilien, 18.06.-05.07.2007
- Dr. Volker **Koch**, Universidad Autónoma de Baja California Sur, La Paz, Mexiko, 20.-29.06.2007
- M.Sc. Sucharit **Neogi**, International Centre for Diarrhoeal Diseases Research, Dhaka, Bangladesh, 26.06.-27.08.2007
- Dr. Somkiat **Khokiattiwong**, Phuket Marine Biological Centre Aquarium, Phuket, Thailand, 29.06.-04.07.2007
- Prof. Dr. Nguyen **Tac An**, Institute of Oceanography, Nha Trang, Vietnam, 02.-09.07.2007
- Dr. Carlos **Jimenez**, Marine Sciences and Limnology Research Center (CIMAR), University of Costa Rica, Costa Rica, 03.07.-23.08.2007
- Dr. Jaime **Mendo**, Universidad Nacional Agraria La Molina, Lima, Peru, 15.07.-15.08.2007
- MSc. Mario **Villegas**, Universidad Arturo Prat, Iquique, Chile, 16.07.-03.08.2007
- Prof. Dr. Fang **Wang**, Aquaculture Department, Ocean University of China, Qingdao, VR China, 20.07.-30.08.2007
- Dr. Arturo **Dominici-Arosemena**, Ordering and Management of Fisheries, Aquaculture and Coastal Marine Resources, Panama, 13.-17.08.2007
- Dr. Antonio **da Silva**, BENEFIT, Swakopmund, Namibia, 12.-30.09.2007
- Dr. Maximiliano **Cledón**, Universidad de Mar del Plata, Argentina, 15.09.-30.11.2007
- Dr. Hans **Verheye**, Marine and Coastal Management, Kapstadt, Südafrika, 14.-28.10.2007
- Marco **Warship**, Marine and Coastal Management, Kapstadt, Südafrika, 14.-28.10.2007
- Dr. Marcelo **Cohen**, UFPa Belém, Brasilien, 13.11.-02.12.2007
- Clarisse Smith **Beltrao**, UFPa Belém, Brasilien, 13.11.-02.12.2007
- Dr. Ana **Rosa da Rocha Araújo**, Universidade Federal do Sergipe, Brasilien, 14.-16.11.2007
- Dr. Carlos **Carvalho**, UENF, Laboratory of Environmental Science, Campos dos Goytacazes, Brasilien, 01.-09.12.2007
- Prof. Soman **Kunjunpillai**, Centre for Earth Science Studies Akkulam, Trivandrum, Indien, 10.-28.12.2007
- Prof. Horacio **Schneider** & Prof. Iracilda **Sampaio**, UFPa, Bragança, Brasilien, 22.12.2007-18.02.2008
- MSc. Jin **Haiyan**, Second Institute of Oceanography (SOA), Hangzhou, V.R. China, 07.01.-02.02.2008
- MSc. Li **Hongliang**, Second Institute of Oceanography (SOA), Hangzhou, V.R. China, 07.01.-02.02.2008
- Dr. Carlos **Jiménez**, Marine Sciences and Limnology Research Center (CIMAR), University of Costa Rica, Costa Rica, 07.-08.01.2008
- Prof. Aaron **Kaplan**, Dr. Danny **Tchernov** und Dr. Moshe **Kiflawi**, Hebrew University, Jerusalem, Israel, 19.-21.02.2008

## Visitors and Guest Researchers

- Martin **Wildenberg**, Institut für Soziale Ökologie, Universität Klagenfurt, 29.01.-01.02.2008
- MSc. Roberto **Schwarz**, Universidade Federal do Paraná, Curitiba, Brasilien, 21.01.-30.09.2008
- MSc. **Wu** Shuang Chou , Hainan Provincial Marine Development Plan and Design Research Institute, Haikou, V.R. China, 20.01.-15.02.2008
- BSc. **Wu** Zhong Jie, Hainan Provincial Marine Development Plan and Design Research Institute, Haikou, V.R. China, 20.01.-15.02.2008
- Prof. Dr. F. **Jeltsch**, Institut für Biochemie und Biologie, Universität Potsdam, 27.02.2008
- Dr. **Wang Daoru**, Hainan Provincial Marine Development Plan and Design Research Institute, Haikou, Hainan, V.R. China, 18.-27.02.2008
- Dr. **Qu** Jianguo, State Key Laboratory of Estuarine and Coastal Research, East China Normal University, Shanghai, V.R. China, 02.-30.04.2008
- MSc. Neetha **Varunny**, Ana University, Chennai, Indien, 08.04.-08.06.2008
- Joseph **Aggrey-Finn**, Cape Coast, Ghana, 06.05. - 06.06.2008
- Dr. Purvaja **Ramachandran**, Ana University, Chennai, Indien, 01.-26.05.2008 und 25.06.-29.08.2008
- Prof. Osmund **Mwandleme** u. Prof. Edosa **Omorie**, Department of Natural Resources and Conservation, University of Namibia, Windhoek, Namibia, 09.-14.06.2008
- Dr. Larry **Oellermann**, Nujoma Marine & Coastal Resources Research Centre, University of Namibia, Namibia, 09.-14.06.2008
- Dr. Carlos **Jiménez**, Marine Sciences and Limnology Research Center (CIMAR), University of Costa Rica, Costa Rica, 08.-29.07.2008
- M.Sc. **Diem MyTran Ngoc**, Departement of Botany and Ecology, National University Vietnam, Ho Chi Minh City, Vietnam, 14.07.-18.08.2008
- Dr. Anthony **Hickey**, University of Auckland, Neuseeland, 24.-27.07.2008
- Dr. Unggul **Aktani** und Dr. Yusli **Wardiatno**, Department of Living Aquatic Resources Management, Faculty of Fisheries and Marine Science, Bogor Agricultural University (IPB), Bogor, Indonesien, 20.-26.08.2008
- Susan **Jones**, Marine and Coastal Management, Kapstadt, Südafrika, 23.08.-11.09.2008
- Marco **Warship**, Marine and Coastal Management, Kapstadt, Südafrika, 23.08.-11.09.2008
- Abdulaziz Said **Al-Marzouqi**, Marine Science and Fisheries Centre, Muskat, Oman 03.09.-16.09.2008
- Mrs. Halima **Kiwango**, Parc Ecologist, Ecological Monitoring Dept, Saadani National Park, Tanzania, 30.10.2008 - 30.01.2009
- Dr. Thomaso **Giarizzo**, UFFPa, Belém, Brasilien, 08.11.-21.12.2008
- Dr. Hans **Verheye**, Marine and Coastal Management, Kapstadt, Südafrika, 15.11.-04.12.2008
- Dr. Antonio **da Silva**, BENEFIT, Swakopmund, Namibia, 15.11.-07.12.2008
- Hoang Trung Du**, National Institute of Oceanography, Nha Trang, Vietnam, 15.11.-15.12.2008
- Dr. Indra **Jaya**, Dekan, Faculty of Fisheries and Marine Science, Bogor Agricultural University (IPB), Bogor Indonesien, 01.-03.12.2008
- Dr. Yusli **Wardiatno**, Department of Living Aquatic Resources Management, Faculty of Fisheries and Marine Science, Bogor Agricultural University (IPB), Bogor, Indonesien, 01.-03.12.2008

## Teaching at Bremen University

**ISATEC**

International Studies in Aquatic Tropical Ecology (U. Berger, M. Birkicht, K. Bischof, W. Ekau, M. Glaser, T. Jennerjahn, G. Krause, A. Kunzmann, I. Nordhaus, C. Richter, U. Saint-Paul, K. Schwerdtner Máñez Costa, M. Teichberg, P. Westhaus-Ekau, M. Wolff), WT 05/06 – WT 08/09

**Lectures**

Global Change and Marine Systems (V. Ittekkot), WT 05/06, ST 06, WT 06/07, WT 07/08, WT 08/09

Artesanale Fischerei und Aquakultur in Vietnam und Kambodscha (U. Saint-Paul), ST 06

Fisheries Biology and Aquaculture (W. Ekau, U. Krumme, U. Saint-Paul, P. Westhaus-Ekau), ST 06, ST 07, ST 08

Karbonatsystem, Kalzifizierung und Primärproduktion im Korallenriff (V. Ittekkot), WT 06/07

Biochemistry of Tropical Marine Systems (V. Ittekkot), WT 06/07, WT 07/08, WT 08/09

Ökologie tropischer Küsten und Ästuar (U. Saint-Paul), WT 06/07, ST 07, WT 07/08, ST 08, WT 08/09

Molekulare Tracer zur Untersuchung mariner Stoffkreisläufe (R. Lara et al.), ST 07, ST 08

Ecophysiology of Marine Algae (K. Bischof et al.), ST 07, ST 08

Pflanzenphysiologie I (K. Bischof et al.), ST 07, ST 08

Interdisziplinäre und transdisziplinäre Aspekte des Fischereimanagements (U. Saint-Paul), WT 07/08

Ringvorlesung Umwelt- und Meereschemie: Meeres- und Umweltchemie unter Bedingungen des globalen Wandels (R. Lara et al.), WT 07/08, WT 08/09

Principles of Marine Ecophysiology (K. Bischof et al.), WT 07/08, WT 08/09

General Introduction to Marine Microbiology (K. Bischof et al.), WT 07/08, WT 08/09

Einführung in die organismische Meeresbiologie (K. Bischof et al.), WT 07/08, WT 08/09

Applied Scientific Training (K. Bischof et al.), WT 07/08, WT 08/09

Ringvorlesung „Meeresforschung im Lande Bremen“ (K. Bischof, U. Saint-Paul et al.), WT 07/08

Meeresbiologie (K. Bischof et al.), ST 08

Einführung in die Umweltpolitik: Lokale, nationale und internationale Fragen (M. Flitner et al.), ST 08

Research Management and Funding Opportunities (K. Bischof et al.), WT 08/09

**Practical Courses**

Moderne organische Spurenanalytik in der marinen Biogeochemie (R. Lara), WT 05/06, WT 06/07, WT 07/08, WT 08/09

Fisheries Biology and Aquaculture (W. Ekau, U. Krumme, U. Saint-Paul, P. Westhaus-Ekau), ST 06, ST 07, ST 08

Ökologie tropischer Küsten und Ästuar (U. Saint-Paul), ST 07, ST 08

Research Cruise with RV Heincke (U. Saint-Paul, W. Ekau et al.), ST 07, ST 08

Molekulare Tracer zur Untersuchung mariner Stoffkreisläufe (R. Lara et al.), ST 07, ST 08

Ecophysiology of Marine Algae (K. Bischof et al.), ST 07, ST 08

Pflanzenphysiologie I (K. Bischof et al.), ST 07, ST 08

Interdisziplinäre und transdisziplinäre Aspekte des Fischereimanagements (U. Saint-Paul), WT 07/08, WT 08/09

Marine Microbiology and Botany (K. Bischof et al.), WT 07/08, WT 08/09

Student research project: Impacts of tropical peat swamp deforestation on aquatic ecosystems in central Sumatra, Indonesia (T. Rixen et al.), WT 08/09

Student research project: Ecology and biodiversity of pelagic communities in the South Atlantic Ocean (W. Ekau et al.), WT 08/09

Einführung in die Biologie mariner Algen (K. Bischof), WT 08/09

Meeresforschungsinstitute im Lande Bremen (K. Bischof et al.), WT 08/09

**Seminars and Colloquia**

Global Change and Marine Systems (V. Ittekkot), ST 06

Principles of Marine Ecophysiology (K. Bischof et al.), WT 07/08, WT 08/09

Applied Scientific Training (K. Bischof et al.), WT 07/08, WT 08/09

Meeresbiologie (K. Bischof et al.), ST 08

4th term: Thesis-Seminar (K. Bischof et al.), ST 08

Meeresbotanik: Anleitung zum selbstständigen wissenschaftlichen Arbeiten (K. Bischof), ST 08, WT 08/09

- Einführung in die Biologie mariner Algen (K. Bischof), WT 08/09
- Research Management and Funding Opportunities (K. Bischof et al.), WT 08/09
- Grant Proposal and Defence (K. Bischof et al.), WT 08/09
- Kolloquium zur marinen Tropenökologie (V. Ittekkot, U. Saint-Paul, M. Wolff), WT 05/06 – WT08/09

### Teaching at other Partner Institutions

- Course on trophic modelling (SENSOR-project), IMARPE, Païta, Peru, M. **Wolff**, M. **Taylor**, 03.2006
- I. Participation & participatory techniques / 2. Nature and society: Alternative theoretical approaches and the social dimension of coastal management, SPICE Summerschool, UNHAS Makassar, Indonesien, M. **Glaser**, 03.2006
- Respiration physiology of tropical fishes (theoretical and practical lessons), School of Marine Studies, University of Suva, Fiji, A. **Kunzmann**, 12.03.-03.04.2006
- Integrated Coastal Zone Management, Andalas University Padang, Sumatra, M. **Glaser**, G. **Krause**, B. **Glaeser**, 04.04.2006
- Introduction to Fisheries, Vudal University East New Britain, Papua Neuguinea, U. **Krumme**, 08.-19.05.2006
- Mangroves as coastal habitat in the tropics, InWent Training Course on Sustainable Use of Coastal and Marine Resources, InWent, Bremen, U. **Saint-Paul**, 15.06.2006
- Global climate and regional environmental change affecting coastal systems – Ecology & Resources, international workshop cum training course, Purwokerto, Java, Indonesien, I. **Nordhaus**, 08.08.2006
- Coastal Ecosystems: Hazard Management and Rehabilitation, International Workshop cum Training course, UNSOED, Purwokerto, Java, Indonesien, I. **Nordhaus**, 08.-17.08.2006
- 2. Sino-German Summer School “Impacts of Global Change on Shelf-Open Ocean Systems”, Universitäten Bremen and Kiel, P. **Westhaus-Ekau**, 08.-18.08.2006
- Introduction to Fisheries Biology, Vudal University, Papua Neuguinea, W. **Ekau**, 02.-09.10.2006
- Application of Surplus Production Models on Marine Resources Considering a Variable Environment, IMARPE, Païta, Peru, M. **Wolff**, F. **Keyl**, 05.-07.03.2007
- Ecologia Marinha, Universidade Federal do Para, Belém, Brasilien, U. **Krumme**, 28.05.-01.06.2007
- Marine Ökosysteme, Fisheries College, Kavieng, University of Vudal, Papua Neuguinea, W. **Ekau**, 25.09.-05.10.2007
- Ecologia Marinha, Universidade Federal do Para, Belem, U. **Krumme**, 31.03.-04.04.2008
- Ecologia de Aguas Continentales – Postgraduierten Kurs zur Binnengewässerkunde, Universidade Federal do Para, Belem, U. **Saint-Paul**, 21.-25.04.2008
- Marine algal taxonomy and physiology, AWI, Helgoland, M. **Teichberg**, 19.-26.05.2008
- Multispecies trophic modeling and quantitative ecosystem indicators for the management of fisheries, Charles-Darwin-Foundation, Galápagos, Ecuador, M. **Taylor**, 14.-18.07.2008
- Summerschool on Mangrove Ecology, Institute of Oceanography, Nha Trang, Vietnam, K. **Diele**, U. **Saint-Paul**, L. **Krupp**, 15.-23.09.2008
- Fisheries Oceanography, Kavieng, Papua Neuguinea, W. **Ekau**, 22.09.-09.10.2008

### Doctoral Theses

- Aggrey-Finn, Joseph: Fishery biology and management in Ghana (Wolff, Ekau), 2008
- Alves da Silveira, Paula Cilene: Impact of oceanographic conditions on distribution and abundance of larval fish in Northern Brazil (Ekau, Saint-Paul) 2008
- Ardli, Erwin Rhyanto: A trophic flow model of the Segara Anakan lagoon, Cilacap, Indonesia (Wolff), 2008
- Badjeck, Marie Caroline: Vulnerability of coastal fishing communities to climate variability and change: implications for fisheries livelihoods and management in Peru (Lange, Wolff), 2008
- Baum, Antje (2008): Biogeochemie tropischer Schwarzwasserflüsse: Der Siak in Zentral-Sumatra, Indonesien (Ittekkot), 2008
- Borell, Esther: The effect of feeding on the thermal resistance of scleractinian corals (Ittekkot), 2008
- Dominici-Arosemena, Arturo: Community

- structure and patterns of diversity in reef fish communities in the tropical Western Atlantic and tropical Eastern Pacific (Wolff), 2006
- Ferse, Sebastian: Artificial reef structures and coral transplantation: fish community responses and effects on coral recruitment in North Sulawesi/Indonesia (Wolff, Kunzmann), 2008
- Giarrizzo, Tommaso: Importance of mangroves for fish. Bases for the conservation and sustainable management of mangrove ecosystems in North Brazil (Saint-Paul), 2007
- Knittweis, Leyla: Population demographics and life history characteristics of *Heliofungia actiniformis*: a fungiid coral species exploited for the live coral aquarium trade in the Spermonde Archipelago, Indonesia (Wolff, Ittekkot), 2008
- Lai Phu, Hoang: Benthic community structure as indicator for system stability of a rehabilitated mangrove in South Vietnam (Saint-Paul), 2007
- Leal Florez, Jenny: Impacts of non-native fishes on the fish community and the fishery of the Ciénaga Grande de Santa Marta estuary, Northern Colombia (Saint-Paul), 2008
- Marcelo Protazio: Spatial Point Pattern Analysis applied to Plant Ecology (Berger, Saint-Paul), 2007
- Mendoza, Ursula: Dynamics of phosphorus and sulphur in a mangrove forest in Braganca, North Brazil (Lara, Saint-Paul), 2007
- Menezes, Moirah P.M. de: Investigations of mangrove forest dynamics in Amazonia, North Brazil (Berger, Saint-Paul), 2006
- Piou, Cyril: Patterns and individual-based modeling of spatial competition within two main components of Neotropical mangrove ecosystems (Berger, Saint-Paul), 2007
- Rocha Araujo, Ana Rosa da: Fishery statistics and commercialisation of the mangrove crab *Ucides cordatus* (L.) in Bragança - Para - Brazil (Saint-Paul), 2006
- Schroeder, Carmen: Reproductive Ecology of the Caribbean Reef Coral *Porites furcata* (Anthozoa, Scleractinea, Poritidae) in Bocas del Toro, Panama (Saint-Paul), 2007
- Schmitt, Bettina: Characterisation of organic nitrogen compounds in sediment and leaves of a mangrove ecosystem in north Brazil (Lara), 2006
- Taylor, Marc: The Northern Humboldt Current Ecosystem and its resource dynamics: Insights from a trophic modeling and time series analysis (Wolff), 2008
- Ongoing**
- Al Marzouqi, Abdulaziz Said Mohammed: Biology, stock assessment and fishery management of the santer seabream *Cheimarius nufar* (Val. 1830) from the Arabian Sea off Oman (Saint-Paul, Ekau)
- Arias-Schreiber, Milena: Fisheries sustainability and coastal governance in the Humboldt and Benguela Upwelling areas (Flitner)
- Baumgart, Anne: Biogeochemische Stoffkreisläufe vor Indonesien (Ittekkot)
- Becker, Susanne: Photoinhibition at low temperatures: D1-turnover in Antarctic rhodophytes (Bischof)
- Claramunt Quiñones, Gabriel: Reproductive biology of *Engraulis ringens*, egg quality, and survival of the offspring in Chilean waters (Saint-Paul)
- Criales Hernandez, Maria-Isabel: Spatio-temporal variability of zooplankton community structure and trophic processes off Central Peru (Wolff, Schwamborn)
- Deswandi, Rio: The roles of local institutions in coral reefs management and their contribution to social and ecological resilience in Spermonde Archipelago, South Sulawesi (Flitner, Glaser)
- Espinoza, Alejandro: 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) (Wolff, Krumme)
- Fredersdorf, Jana: Interactive effects of ultraviolet radiation and other abiotic factors on photosynthesis of Arctic macroalgae (Bischof)
- Fricke, Anna: Modulating effects of UV-radiation on the succession of the tropical macro algal communities (Bischof)
- Herbon, Carolin: Benthic nutrient cycling in the mangrove fringed Segara Anakan lagoon (Bischof, Nordhaus)
- Herrmann, Regine: Impact of benthic organisms and anthropogenic activities in the hinterland on the carbon- and nutrient-biogeochemistry in the mangrove fringed Segara Anakan- lagoon, Java, Indonesia (Ittekkot, Jennerjahn)
- Jantzen, Carin: Nutrient cycling in coral reefs (Richter)

- Jänen, Ingo: Saisonale Variabilität der Auswirkungen der Nährstoff- und Organikeinträge des Brantas Flusses auf die Wasserqualität und Biogeochemie der Madurastraße, Java, Indonesien (Ittekkot, Jennerjahn)
- Keyl, Friedemann: Octopus fishery and population dynamics in the Humboldt Current Ecosystem under the influence of El Niño-Southern Oscillation (ENSO): on the search for a combined climate-fishery model (Wolff)
- Kleinertz, Sonja: Fish parasites as biological indicators within and around the Segara Anakan Lagoon, Indonesia (Ittekkot)
- Krämer, Wiebke: Photoecophysiology of zooxanthellae of hermatypic corals (Bischof, Richter)
- Krupp, Lucia: Land-based activities affecting the fluxes and transformation of nutrients and organic matter from watershed to the coastal sea (Ittekkot, Jennerjahn)
- Krutwa, Annika: 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 (Wolff)
- Lukas, Martin: Land use change and environmental governance around Segara Anakan Lagoon (Java, Indonesia) (Flitner, Glaser)
- Müller, Ruth: Interactive effects of ultraviolet radiation and other abiotic factors on the reproductive success of kelp (Bischof)
- Oxmann, Julian: Organic matters and nutrients in natural and regenerated mangrove forests in Can Gio, Vietnam (Lara)
- Paramo Granados, Jorge Enrique: Design of a system of marine protected areas (mpas) for the management of demersal fisheries in the Colombian Caribbean (Saint-Paul)
- Propp, Claudia: Bedeutung der benthischen Nährstoffregeneration vs. der saisonal variierenden Einträge des Brantas Flusses für die Wasserqualität und die Produktivität der Küstengewässer der Madurastraße (Ittekkot, Jennerjahn)
- Radjawali, Irendra: Multi-agent social-ecological systems modelling of livelihood strategies and governance in a coastal social-ecological system., Flitner (Breckkling) (Glaser)
- Rautenberger, Ralf: Physiological acclimation patterns of marine macroalgae to abiotic stress gradients (Bischof)
- Roder, Cornelia: Coral heterotrophy in a land-ocean gradient (Richter)
- Romatzki, Sascha: Reproduction strategies of stony corals (Scleractinia) in an equator near, Indonesian coral reef. Contributions for the coral-farming (Wolff, Kunzmann)
- Rump, Carla: Akteursperspektiven zu Umwelthandeln und nachhaltigem Handeln: Empirische Untersuchung von Akteurskonzepten und Praxiserfahrungen in den Zentren bundesdeutscher Nationalparks und Biosphärenreservate (Lange, Flitner)
- Sawall, Yvonne: Coral resilience to stress (Richter)
- Schmidt, Gertraud: Influence of solibores on corals in the Andaman Sea (Richter)
- Selmi, Farid: Comparative Analysis of coastal governance and management systems in selected areas of Indonesia (Lange, Flitner, Glaser)
- Spörl, Gertrud: Auswirkungen von Stickstoffeinleitungen aus der Zuckerrohrmonokultur auf die Wasserqualität und Biogeochemie der Mundau-Manguaba Lagune und angrenzender Küstengewässer Brasiliens (Ittekkot, Jennerjahn)
- Steinhoff, Franciska: Phlorotannins as UV absorbing substances in zoospores of kelp (Bischof)

## External Doctoral Theses

### Ongoing

- Blandtt, Lucinaldo: Capacitation of social resilience with participatory methodologies, UFPa, Campo Universitario de Belém, Brasilien (Glaser)
- Cabral, Neila: O setor pesqueiro brasileiro e o desempenho das estruturas e sistemas de representação política, Universidade Federal do Pará (Glaser)
- Cordeiro da Cruz, Helenice: Influence on sediment biogeochemistry on the distribution of mangrove vegetation on the Braganca Peninsula, Pará, Brazil., UFPa, Belem, Brasilien (Lara)
- Darlan, Simith: Postlarval settlement and juvenile ecology of the mangrove crab *Ucides cordatu.*, Universidade federal do Pará, Braganca, Brazil, F.Arbenhosa (Diele)
- Grote, Britta: Environmental impact on the condition and growth of young Cape hake in the Benguela upwelling system off South Africa, Universität Bremen, Marine Zoologie (Ekau)
- Kopprio, Germán, Influence of climatic vari-

ability on the ecohydrology and biogeochemistry of brackish coastal lagoons, UNS, Universidad Nacional del Sur, Argentina (Lara)

- Leal Risuenho dos Santos, Helenice: Use of aminoacids and pyrite as indicator of redox conditions in mangrove sediments, Universidade Federal Fluminense, Rio de Janeiro, Brasilien (Lara)
- Lualhati Lachica Aliño: Soft Bottom ecosystem benthic-pelagic coupling: the interaction of topographic and hydrographic attributes and fisheries potentials, University of the Philippines (Wolff)
- Schwarz, Roberto: A ictiofauna demersal da plataforma Interna entre a Barra do Ararapira e Matinhos, Paraná, Universidade Federal do Paraná, Curitiba, Brasilien (Saint-Paul)

## Diploma Theses

- Bender, Dorothea: The recovery of scleractinian corals from mechanical disturbance and potential modulating effects of settling algae, laufend in Kooperation mit Uni Queensland, Brisbane, Australia (Bischof), 2008
- Biermann, Antje: Einfluss von CO<sub>2</sub> auf die Zusammensetzung und Sinkgeschwindigkeit von Aggregaten der Coccolithophoride *Emiliana huxleyi* (Bischof), 2008
- Duygu Sevilgen: Comparative study of benthic primary production in silicate and carbonate sands of the islands Elba and Pianosa (Tyrrhenian Sea, Italy) (Bischof), 2008
- Feyen, Anja: Räumliche Verteilung der Ichthyofauna zu unterschiedlichen Tidenständen im Mangrovenpriel Furo do Ponte nahe Bragança, Pará, Nordbrasilien (Saint-Paul, Krumme), 2008
- Geist, Simon Joscha: Die intertidale Krabben-gemeinschaft der Segara Anakan Lagune/Cilacap, Indonesien zur Trockenzeit 2005 (Saint-Paul, Nordhaus), 2007
- Henkel, Susann: Biogeochemische Untersuchungen kleiner Gebirgsflüsse in Süd-Kerala, Indien (Ittekkot, Jennerjahn), 2007
- Herold, Cornelia: Untersuchungen zum Glutathionhaushalt mariner Makroalgen (Bischof), 2008
- Hinrichs, Saskia: Populationsdynamik der Ocyrodidae und Grapsidae (Nordhaus), 2006
- Krämer, Wiebke: Genfluss der Pilzkoralle *Heliofungia actiniformis* und der Riesenmuschel *Tridacna crocea* in Südostasien (Saint-Paul), 2007
- Krück, Niels: Distribution and trophic ecology of larval and juvenile whiting (Pisces: Sillaginidae) on tidal flats within Moreton Bay, Australia (Saint-Paul), 2007
- Merckens, Marian-Alexander: Der Einfluss der Temperatur auf den Standardstoffwechsel von Scorpaeniden am Beispiel von *Myoxocephalus scorpius* (Saint-Paul, Kunzmann), 2007
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- Tequila für die Superschmecker – Überraschende Einsichten in die Biodiversität beim Parlamentarischen Abend der Leibniz-Gemeinschaft / Leibniz Journal, 2/2008
- UNAM Gets German Help for Marine Research / New Era, Namibia, 01.07.2008
- Krankenpflege für Korallen / Neue Züricher Zeitung, 13.07.2008
- Uni Bremen ist Partner bei Küstenforschung – Das ZMT in Bremen und die Universität von Namibia planen jetzt eine Kooperation in Forschungsprojekten zu Marikultur und Küstenschutz / Allgemeine Zeitung Windhoek, Namibia, 17.07.2008
- Meeresforscherin / Greenpeace Magazin, 4/2008

- Von den Ozeanen zu Olympia / Eckernförder Zeitung, 14.08.2008
- Schiffswrack gefährdet entlegenes Korallenriff – Eisenteilchen verändern Umwelt, Invasoren profitieren / presstext Nachrichtenagentur, Österreich, 20.08.2008
- Invasoren am Riff: Scheibenanemonen verdrängen Korallen / Der Standard, Österreich, 20.08.2008
- Baustelle Korallenriff – Bremer Ökologen helfen, zerstörte Atolle vor den Küsten Indonesiens wiederzubeleben / Süddeutsche Zeitung, 20.08.2008
- Giant clams fed first modern humans moving out of Africa / Zimbabwe Star, 29.08.2008
- Bilderausstellung widmet sich tropischen Korallenriffen / Weser Kurier, 29.08.2008
- Forscher entdecken unbekanntes Riesenschneckenmuschel / dpa, 01.09.2008
- Bremer entdecken Riesenschneckenmuschel im Roten Meer / Hamburger Abendblatt, 02.09.2008
- Neuer Riese aufgetaucht – Bislang unbeschriebene Spezies gilt als erstes Beispiel für Überfischung / Natur + Kosmos, 02.09.2008
- Forscher entdecken neue Muschel / Nordsee-Zeitung, 02.09.2008
- New Giant Clam Species offers Window Into Human Past / sciencedaily.com, 02.09.2008
- Bremer Meeresbiologen entdecken neue Riesenschneckenmuschelart / news-von-morgen.de, 02.09.2008
- Neue Riesenschneckenmuschel enthüllt urzeitliche Überfischung / scinexx.de, 02.09.2008
- Meerversteher macht dicken Fang / taz nord, 03.09.2008
- Riesenschneckenmuschel im Roten Meer entdeckt – *Tridacna costata* bringt es auf eine Länge von bis zu 40 Zentimetern / Weser Kurier, 06.09.2008
- Neu entdeckte Mördermuschel-Art ist vom Aussterben bedroht / tauchen, 14.09.2008
- Riesenschneckenmuschel im Roten Meer entdeckt / Factum Magazin (Schweiz) 7/2008
- Atemberaubende Bilder aus den Korallenriffen / Bremer Uni-Schlüssel 10/2008
- Neu entdeckt: Die Riesenschneckenmuschel *Tridacna costata* / Bremer Uni-Schlüssel 10/2008
- BMBF beteiligt sich an Ausstellungsserie / Aktuell Asia (Wirtschaftsmagazin), 10.11.2008
- Students urged to be responsible / The National, Papua New Guinea, 25.11.2008
- History in the making with first graduates / The National, Papua New Guinea, 25.11.2008

- 05.02.2006 – Nordwest-Radio (Radio Bremen): Mare Radio, 11.00 Uhr (Interview Uwe Krumme zu Mangroven und Seegraswiesen), Wh. am 6.1.06 um 20 Uhr
- 21.05.2006 – Buten un Binnen (Radio Bremen, TV): Nachrichten (Wissenschaftsrat lobt Bremer Tropenökologie)
- 10.08.2006 – Deutschlandradio: Forschung aktuell, 16.35 Uhr, „Meeresfrucht ohne Meer. Bremer Biogarnele kann überall gezüchtet werden“ (Bericht über das Projekt „TRIOPS“)
- 13.08.2006 – ORF TV (Österreichischer Rundfunk): Newton – Neues aus der Welt der Wissenschaft, 19.00 Uhr, „Leckerbissen aus dem Hightechlabor“ (Bericht über das Projekt TRIOPS mit Interview A. Kunzmann), Wh. am 17.8.06 um 12.25 Uhr
- 19.09.2006 – Radio Bremen: Nachrichten, „Korallenforscher tagen in Bremen“ (Hinweis auf die Korallenrifftagung)
- 20.09.2006 – Nordwestradio (Radio Bremen): Nordwestradio Journal, 17.05 Uhr (Interview C. Richter zur Korallenrifftagung)
- 22.09.2006 – Funkhaus Europa (Radio Bremen): Verso, 16.05 Uhr, „Wunderwelt in Gefahr“ (Interview C. Richter zur Korallenrifftagung anlässlich des Welttages des Meeres)
- 22.09.2006 - Bremen Eins (Radio Bremen): Das Mittagsgespräch, 13.40 Uhr (Live-Interview C. Richter zur Korallenrifftagung)
- 22.09.2006 – Deutsche Welle TV: Nachrichten, „Natürliche Garnelen in künstlichen Becken“ (Bericht über das ZMT-Aquakulturprojekt)
- 27.10.2006 – Deutschlandradio: Kulturnachrichten, „Leibniz-Gemeinschaft nimmt vier neue Mitglieder auf“
- 30.11.2006 – RTL Regional: Wissen X-akt, 18.00 Uhr (Interview C. Richter und A. Kunzmann über Forschung an Korallenriffen im ZMT)
- 10.01.2007 – Wilantis, Wissensradio: Umwelt und Tiere, „Fische riechen ihre Heimat“ (Zitate von C. Richter)
- 26.01.2007 – NDR Info: Logo, das Wissenschaftsmagazin, 21.05 – 22.05 Uhr (Interview mit W. Ekau zum Thunfischgipfel in Japan) – Wh. am 28.1., 15.05 – 16.05 Uhr
- 16.02.2007 – BR Fernsehen: Unser Land, 19.00 Uhr, „Biogarnelen aus dem Aquarium“ (Bericht über das TRIOPS-Projekt), Wh. am

- 17.2. im BR um 11.05 Uhr, im BR-Alpha um 16.30 Uhr
- 03.04.2007 – Pro Sieben: Wunderwelt Wissen, 19.00 Uhr (Bericht über SCOPE-Tagung in Delmenhorst mit Interview V. Ittekkot)
- 03.04.2007 – Hit-Radio Antenne: Nachrichten (Bericht über SCOPE-Tagung in Delmenhorst mit Interview V. Ittekkot)
- 04.04.2007 – RTL und Vox: Nachrichten, (Bericht über den Schlammvulkan auf Java mit Interview T. Jennerjahn)
- 24.05.2007 – ARTE, 19.00 Uhr, „Mangroven – Bedrohte Küstenwälder in Brasilien“ (Bericht über das MADAM-Projekt), Wh. am 31.5. um 16.50 Uhr
- 01.06.2007 – Bremen 1: Der Vormittag, Nachrichten, 11.20 Uhr (Interview mit U. Saint-Paul über das Thema Aquakulturen)
- 03.11.2007 – Saarländischer Rundfunk SR 2 KulturRadio, 9.05 – 10 Uhr, „Nachhaltige Fischwirtschaft“ (Interview mit U. Saint-Paul)
- 19.11.2007 – Radio Bremen: Nachrichten, 18 Uhr (Information über die Aufnahme des ZMT in die BLK-Finanzierung in 2009)
- 19.11.2007 – Radio Bremen TV: Buten un Binnen, 18 Uhr (Information über die Aufnahme des ZMT in die BLK-Finanzierung in 2009)
- 27.11.2007 – Deutschlandradio: Weltzeit, „Überfischung vor den Philippinen“ (Interview mit U. Saint-Paul)
- 08.12.2007 – Hessischer Rundfunk hr2 – Kultur: Weltzeit, 12.05 Uhr, „Kein Fisch – nirgends. Kleinfischer auf den Philippinen kämpfen ums Überleben“ (Interview mit U. Saint-Paul)
- 29.01.2008 - Südwestrundfunk SWR2 Wissen, 8.30 Uhr, „Hoffnung für die Fischer – Küstenschutz auf den Philippinen“ (Interview mit U. Saint-Paul)
- 18.03.2008 – Nordwestradio: Journal, zw. 8.00 und 9.00 Uhr (Informationen zum internationalen Jahr des Riffs und Korallenriff-Forschungsprojekte des ZMT, Interviews mit A. Kunzmann und S. Ferse)
- 27.04.2008 – Radiobremen – Bremen Vier: Zebra 4, 10 Uhr (Interview mit M. Kochzius zum Jahr des Riffs und seiner Arbeit am ZMT)
- 07.05.2008 – WDR 5: Leonardo, 16.05 Uhr, „Keine Mangroven – kein Schutzwall gegen die Flut“ (Interview mit U. Saint-Paul über Mangroven als Küstenschutz anlässlich der Flutkatastrophe in Birma)
- 05.06.2008 – RTL regional: Wissen X-Akt, 18 Uhr (Bericht über Korallenriffe und ihre Bedrohungen mit Interviews mit A. Kunzmann und L. Knittweis)
- 15.06.2008 – France 3: Thalassa, Le Magazine de la Mer, 18.40 Uhr, „Indonésie: La grand-mère des Bunaken“ (Interview mit S. Ferse über seine Forschung zur Riffrekonstruktion), Wh. 17.6. TV5 Monde 21 Uhr
- 04.09.2008 – Hit Radio Antenne: Morgenprogramm (Interview mit S. Ferse zur Ausstellung zum Jahr des Riffs im Haus der Wissenschaft)
- 04.09.2008 – Radiobremen: Nordwestradio Journal (Interview mit S. Ferse zur Ausstellung zum Jahr des Riffs im Haus der Wissenschaft)
- 04.09.2008 – Radiobremen TV: Buten un Binnen, 19.30, „Folgen der Dynamitfischerei“ (Interviews mit S. Ferse und Y. Sawall über ihre Arbeit im SPICE-Projekt)
- 23.11.2008 – Deutsche Welle TV: Brilliant Minds, 21.30, „Mirta Teichberg, USA“ (Portrait der Jungwissenschaftlerin und ihrer Arbeit am ZMT), mehrfache Wh. an verschiedenen Tagen auf dt. und engl.

## Press Releases / Web News Items

- Einblicke in die Meeresforschung, 23.02.2006
- Nachhaltige Nutzung der Peruanischen Pilgermuschel, 17.03.2006
- Zentrum für Marine Tropenökologie zur Aufnahme in Leibniz-Gemeinschaft empfohlen, 23.05.2006
- Mangroven und der Kohlenstoffkreislauf, 29.06.2006
- Internationaler Workshop bringt Experten des Küstenzonenmanagements zusammen, 31.08.2006
- Pressekonferenz anlässlich der 6. Europäischen Korallenrifftagung in Bremen, 07.09.2006
- Ein Ökosystem im Umbruch – Die Riffe der Jurazeit, 12.09.2006
- Folgen einer Schlammflut, 27.11.2006
- Fachbuch zum Siliziumkreislauf erschienen / The Silicon Cycle: a new reference book from the SCOPE Series, 05.01.2007
- Brücken schlagen zwischen Forschung und Anwendung / Building a bridge between science and its application, 15.01.2007
- Highlights der Meeresforschung, 27.04.2007

- Ein neues Leibniz-Institut für Bremen, 19.11.2007
- Zum Jugendparlament nach Malta, 26.11.2007
- Besuch aus Qingdao am ZMT, 27.01.2008
- 2008 ist das Internationale Jahr des Korallenriffes, 28.2.2008
- Forschung trifft Politik: Parlamentarischer Abend zum Thema Biodiversität, 08.05.2008
- Küstenforschung in Namibia, 16.6.2008
- Die Regenwälder der Meere – Ausstellung zum Jahr des Riffes im Haus der Wissenschaft, 18.08.2008
- Meeresforscher aus dem Land Bremen entdecken neue Riesenmuschel, 01.09.2008
- Deutschland und China – gemeinsam in Bewegung, 20.11.2008

## Information Material

- Three-Year-Report (2003 – 2005), 2006
- Benthos Ecology of Mangrove Forests (Flyer, Series “Special Courses”), 2006
- LANCET - Land-Sea Interactions along Coastal Ecosystems of Tropical China: Hainan (Flyer, Series “Projects”), 2008
- Korallenriffe – Einblicke in eine verborgene Welt (Flyer presenting a lecture series on the occasion of the International Year of the Reef), 2008

## Public Awareness Events

- Lecture „Mangroven: Lebenskünstler zwischen Land und Meer“, U. Krumme, Gymnasium Leopoldinum Detmold, 09.02.2006
- Presentation of the ZMT for students of the Ökumenisches Gymnasium (12th grade), Bremen, 23.02.2006
- Workshop for high school students „Marine Lebensräume“ at the ZMT, Kippenberg-gymnasium (11<sup>th</sup> grade), Bremen, 26.04.2006
- Lecture “Wissenschaftlerin – ein toller Beruf!”, G. Krause, Univ. Bremen, GW I (in the frame of the Girl’s Day), 27.04.2006
- Lecture „Mangroven zwischen Schutz und Nutzung“, U. Saint-Paul, Lateinamerikainstitut, Wien, 24.05.2006
- Lecture „Ein Ökosystem im Umbruch – Die Riffe der Jurazeit“, Prof. Reinhold Lein-

felder, Humboldt-Universität zu Berlin (invited speaker of the ZMT on the occasion of the 6<sup>th</sup> European Coral Reef Conference), Haus der Wissenschaft, Bremen, 20.09.2006

- Press conference on the occasion of the 6th European Coral Reef Conference, ZMT, 21.09.2006
- Lecture „Aquakultursysteme der Welt“, U. Saint-Paul, Jahreshauptversammlung der Zierfischfreunde Cap-Lopez e.V., Celle, 01.03.2007
- Lecture “Coral reefs, oases in a desert ocean – on marine science and international cooperation”, C. Richter, International School, Bremen, 19.04.2007
- Girls’ Day at the ZMT, program about the biology of tropical marine animals, 26.4.2007
- Posterpresentation „Coastal Zone Management – The balance between protection and use“ on the occasion of the Green book-Conference, Messezentrum Bremen, 02.-04.05.2007
- Participation (Algae reactor) in the exhibition „Highlights der Meeresforschung“, Haus der Wissenschaft, 02.-04.05.2007
- Lecture „Freitags gibt’s Fisch – Woher kommen die Meeresbewohner auf unseren Speisekarten und welche Probleme verursacht ihr Fang? U.Saint-Paul, Haus der Wissenschaft, Bremen, 05.05.2007
- Guided tour through the aquaculture facilities for primary school pupils, St. Marienschule, Bremen, 31.05.2007
- Poster in the „Climate Lounge“ on the occasion of the international concert series „Live Earth“, Hamburg, 07.07.2007
- Lecture „Wiederaufbau im Riff: Kabel, Keramik und Kugelkonstruktion – Schäden in einem der ältesten Ökosysteme der Erde und der Mensch versucht, sie zu reparieren“, S. Ferse, Haus der Wissenschaft, Bremen, 24.11.2007
- Lecture „Mangroven - Wälder Zwischen Land und Meer“, U. Saint-Paul, on the occasion of the opening of an exhibition at the Natureum Niederelbe, Otterndorf, 23.02.2008
- Photo exhibition „Korallenriffe – Einblicke in eine verborgene Welt“, C. Richter, on the occasion of the International Year of the Reef at the ZMT, starting 23.02.2008
- Lecture „Nemo & Co. – Woher kommen Aquarienbewohner und welche Probleme verursacht ihr Fang?“, L. Knittweis, lecture

- series on the occasion of the International Year of the Reef, Haus der Wissenschaft, Bremen, 19.04.2008
- Guided tour of the ZMT for high school students (8<sup>th</sup> grade), Schulzentrum Rockwinkel, Bremen, 25.04.2008
- Participation in the exhibition „Biodiversität-die Vielfalt des Lebens erforschen, erhalten und nutzen“ in the frame of the Parliamentary Evening“ of the Leibniz-Association, Naturkundemuseum, Berlin, 06.05.2008
- Lecture „Tropische Riffe – Oasen des Lebens“, von C. Richter, lecture series on the occasion of the International Year of the Reef, Haus der Wissenschaft, Bremen, 17.05.2008
- Participation in the presentation of the German Marine Research Consortium during the exhibition „Plaza der Vielfalt“ on the occasion of the Conference on Biological Diversity of the UN (COP9), Bonn, 27.–30.05.2008
- Presentation of two posters about the research in upwelling systems and in coral reefs on the „Open doors day“ of the research vessel Maria S. Merian, 19.–20.07.2008
- Exhibition “Die Regenwälder der Meere” with photos and exhibits on the occasion of the International Year of the Reef (a cooperation project of the ZMT and the UFT at Bremen University), Haus der Wissenschaft, 04.09.2008 – 12.11.2008
- Presentation of the results of the MADAM-project, Fiema Brasil 2008, Bento Gonçalves, Brasilien, 29.10.-01.11.2008
- Participation in the exhibition „Germany and China – moving ahead together“ with short lectures, posters and exhibits related to cooperation projects with China, Guangzhou, VR China, 07.-14.11.2008
- Lecture „Sporttauchen und Umweltschutz“, C. Roder, Bootsmesse Berlin, 20.11.2008
- Guided Tour of the Laboratories and the aquaculture facilities for a group of CTA-students, Schulzentrum Utbremen, Bremen, 17.12.2008

- Arias-Schreiber, Milena, Social Sciences (until 30.11.2007)
- Baum, Dr. Antje, Biogeochemistry
- Baumgart, Anne, Biogeochemistry
- Berger, Dr. Uta, Ecological Modelling (until 31.03.2007)
- Bergmann, Kai, EDP Administration (until 31.12.2006)
- Birkicht, Matthias, Laboratory
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- Borell, Esther, Coral Reef Ecology (until 31.12.2007)
- Brandt, Christian, Laboratory
- Bröhl, Stefanie, Laboratory
- Burba, Jolanta, EDP Administration (until 30.09.2006)
- Chero, Ricardo, Ecological Modelling (until 30.09.2008)
- Dasbach, Dorothee, Laboratory
- Dobat, Kristina, Biology / Ecology
- Dsikowitzky, Dr. Larissa, Biogeochemistry, Coordination LANCET Project
- Diele, Dr. Karen, Biology / Ecology
- Echterhoff, Andreas, Technical Support (until 16.07.2006)
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- Eilemann, Silke, Administration
- Ekau, Dr. Werner, Director IOI, Biology / Ecology
- Ferse, Dr. Sebastian, Social Sciences
- Fontalvo, Martha, Modelling (until 30.09.2007)
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- Funke, Tobias, Technical Support
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- Herrmann, Regine, Biogeochemistry
- Ittekkot, Prof. Dr. Venugopalan, Director, Biogeochemistry
- Jänen, Ingo, Biogeochemistry
- Jantzen, Carin, Coral Reef Ecology
- Jennerjahn, Dr. Tim, Biogeochemistry
- Käpnick, Petra, Secretariate, Administration
- Keyl, Friedemann, Ecological Modelling
- Kleinertz, Sonja, Biology/Ecology
- Knittweis, Dr. Leyla, Social Sciences (until 31.08.2008)
- Krain, Dr. Eberhard, Social Sciences (until 28.02.2007)

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- Krause, Dr. Gesche, Social Sciences  
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Kunzmann, Dr. Andreas, Biology/Ecology  
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Ludwig, Wolfgang, Technical Support  
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Lukas, Martin, Social Sciences  
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Minack, Katrin, Laboratory (until 22.06.2007)  
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30.09.2006)  
Müller, Christa, Secretariate (until 31.08.2007)  
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Radjawali, Irendra, Social Sciences  
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Saint-Paul, Prof. Dr. Ulrich, Deputy Director,  
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Schmidt, Gertraud, Biology/Ecology  
Schmitt, Bettina, Biogeochemistry (until  
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Schultz, Dr. Claudia, Coordination SPICE-  
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Selent, Dr. Ursel, Head of Administration  
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Springer, Karin, Biogeochemistry (until  
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Stürmer, Heike, Administration (until 28.02.07)  
Taylor, Dr. Marc, CENSOR-Project (until  
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Unger, Dr. Daniela, Biogeochemistry  
Westhaus-Ekau, Dr. Petra, Biology/Ecology  
Wiebe, Svetlana, Administration  
Wolff, Matthias, Prof. Dr., Ecological Modelling  
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Yéyi, Epiphane, Technical Support

## Memberships

- American Geophysical Union (AGU)  
(T. Jennerjahn, T. Rixen)  
American Society of Limnology and Oceanog-  
raphy (ASLO) (T. Jennerjahn)  
Arbeitskreis Küsten und Meere (G. Krause)  
Arbeitskreis Theorie (AKT) in der GfÖ  
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(DGM) (A. Kunzmann, G. Krause, R. Lara,  
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Fisheries Society of the British Isles (W. Ekau)

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Entwicklung, Humboldt Universität Berlin  
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International Sociological Association (ISA)  
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International Society for Reef Studies (ISRS)  
(A. Kunzmann, S. Ferse, C. Richter)

International Society of Mangrove Ecology  
(ISME) (T. Jennerjahn, U. Saint-Paul)

Japan Society for the Promotion of Science  
and Alexander-von-Humboldt Stiftung  
Japanese-German Frontiers of Science  
Symposia. (C. Richter, Planning Group  
Member for 2006 and 2007)

Japanese Society of Ichthyology (W. Ekau)

Network of Tropical Aquaculture and Fisheries  
Scientists (NTAFS-ICLARM),  
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Pacific Congress on Marine Science and Tech-  
nology International (PACON)  
(U. Saint-Paul)

SCOR-Working Group 128 "Hypoxia"  
(W. Ekau, V. Ittekkot)

Sektion Phykologie in der Deutschen Botani-  
schen Gesellschaft (K. Bischof)

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U. Saint-Paul)

World Sturgeon Conservation Society  
(G. Krause, A. Kunzmann, U. Saint-Paul)

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U. Krumme)

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ment of German Coasts" (V. Ittekkot)

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SCOR (Scientific Committee on Ocean  
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Council (V. Ittekkot, until 2006)

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Ocean Interaction in the Coastal Zone  
(LOICZ) Programme (IGBP-IHDP)  
(M. Glaser)

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## List of Acronyms

ABF	Angola Benguela Front	und Meeresforschung (Bremerhaven, Potsdam, Sylt und Helgoland)
ACEMON	Managing Aquatic Coastal Ecosystems of Monsoon Asia	
AGU	American Geophysical Union	
AMB	Arbeitsgemeinschaft meereskundlicher Bibliotheken	
ASEAMS	Association of Southeast Asian Marine Scientists	
ASLO	American Society for Limnology and Oceanography	
ATB	Association for the Tropical Biology and Conservation	
ATSAF	Arbeitsgemeinschaft Tropische und Subtropische Agrarforschung e.V. (jetzt BEAF: Beratungsgruppe Entwicklungsorientierte Agrarforschung)	
ATSEF	Arafura and Timor Seas Expert Forum	
AWI	Alfred-Wegener-Institut für Polar-	
BENEFIT	The Benguela Environment Fisheries Interaction & Training Programme	
BIOLOG	Biodiversität und Globaler Wandel	
BMBF	Bundesministerium für Bildung und Forschung	
BPPT	Agency for the Assessment and Application of Technology (Indonesien)	
Can Gio	Ecosystem functioning of rehabilitated versus natural mangroves in the Can Gio Re-serve, Vietnam – Can Gio-Projekt	
CARMAB	Caribbean Research and Management of Biodiversity (Curaçao)	
CCRR	Center for Coral Reef Research (Indonesien)	

CENSOR	Climate variability and El Niño Southern Oscillation: Implications for natural coastal Resources and management	HTML	Chromatography Hypertext Markup Language
CESS	Centre for Earth Science Studies (Indien)	IAMRI	International Association of Marine-related Institutions
CIBNOR	Centro de Investigaciones Biológicas del Noroeste (Mexico)	IAPSO	International Association for the Physical Sciences of the Oceans
CIMAR	Centro de Investigacion en Ciencias del Mar y Limnologia (Costa Rica)	IB	Internationales Büro des BMBF
DAAD	Deutscher Akademischer Austauschdienst	ICDDR,B	International Centre for Diarrhoeal Disease Research (Bangladesh)
DFG	Deutsche Forschungsgemeinschaft	ICP-OES	Induktiv gekoppeltes Plasma (Inductively-Coupled-Plasma) mit optischer-Emmissions-Spektrometrie
DFOR	Deutsches Forum für Entwicklungsorientierte Forschung	ICSU	The International Council for Science
DGH	Deutsche Gesellschaft für Humanökologie	ICZM	Integrated Coastal Zone Management
DGM	Deutsche Gesellschaft für Meeresforschung	IDW	Informationsdienst Wissenschaft
DKP	Ministry of Marine Affairs and Fisheries (Indonesien)	IfM	Institut für Meereskunde (Kiel)
EAS	European Aquaculture Society	IfM-GEOMAR	Leibniz-Institut für Meereswissenschaften an der Universität Kiel
EFMS	European Federation of Marine Science and Technology Societies	IGBP	International Geosphere-Biosphere Programme
ENSO	El Niño-Southern Oscillation	IGV	Institut für Getreideverarbeitung GmbH (Bergholz-Rehbrücke)
ESA	The Ecological Society of America	IHDP	International Human Dimensions Programme on Global Environmental Change
ESEE	European Society for Ecological Economics	IHP	International Hydrological Programme
EU	Europäische Union	IKZM	Integrated Coastal Zone Management
FAO	Food and Agriculture Organization of the United Nations	IMARPE	Instituto del Mar del Peru (Peru)
FIEMA	Feira Internacional de Tecnologia para o Meio (Brasilien)	IMBER	The Integrated Marine Biogeochemistry and Ecosystem Research
FS	Forschungsschiff	INIDEP	Instituto Nacional de Investigacion y Desarrollo Pesquero (Argentinien)
FTZ	Forschungs- und Technologiezentrum Westküste der Christian-Albrechts-Universität zu Kiel	INVEMAR	Instituto de Investigaciones Marinas y Costeras (Kolumbien)
GEOMAR	Forschungszentrum für marine Geowissenschaften der Christian-Albrechts-Universität zu Kiel	InWent	Internationale Weiterbildung und Entwicklung gemeinnützige GmbH
GfÖ	Gesellschaft für Ökologie	IOC	Intergovernmental Oceanographic Commission
GIS	Geographisches Informationssystem	IOI	International Ocean Institute (Malta)
GITEWS	German-Indonesian Tsunami Early Warning System	IOW	Institut für Ostseeforschung (Warnemünde)
GLOMAR	Global Change in the Marine Realm	IPB	Fisheries Faculty of Bogor University (Indonesien)
GKSS	Gesellschaft für Kernenergieverwertung in Schiffbau und Schifffahrt mbH (Geesthacht)	ISA	International Sociological Association
GTÖ	Gesellschaft für Tropenökologie	ISATEC	International Studies in Aquatic Tropical Ecology
GTZ	Gesellschaft für Technische Zusammenarbeit		
HPLC	High Performance Liquid		

## List of Acronyms

ISME	International Society for Mangrove Ecosystems	POLYPLAN	Ingenieurbüro für Energie- und Umwelttechnik GmbH (Bremen)
ISRS	International Society for Reef Studies	ROSTLAC	Regional Office for Science and Technology (Latin America and the Caribbean)
LANCET	Land-Sea Interactions along Coastal Ecosystems of Tropical China: Hainan	RV	Research Vessel
LOICZ	Land-Ocean Interactions in the Coastal Zone	SES	Social-ecological systems
MADAM	Mangrove Dynamics and Management	SCOPE	Scientific Committee on Problems of the Environment
MARIANDA	Marine Analytics and Data (Kiel)	SCOR	Scientific Committee on Oceanic Research
MARUM	Zentrum für Marine Umweltwissenschaften (Bremen)	SEACORM	Southeast Asia Centre for Ocean Research and Monitoring
MoU	Memorandum of Understanding	SOA	State Oceanic Administration
MOST	Ministry of Science and Technology (Vietnam)	SP	Sonderstipendienprogramm
MPA	Marine Protected Areas	SPICE	Science for the Protection of the Indonesian Coastal Ecosystems
MPI	Max-Planck-Institut	UENF	Universidade Estadual do Norte Fluminense (Campos dos Goytacazes, Brasilien)
MRC	Mekong River Commission	UFAL	Universidade Federal de Alagoas (Maceió, Brasilien)
M.Sc.	Master of Science	UFPa	Universidade Federal da Pará (Belém, Brasilien)
MSS	Marine Science Station, Aqaba (Jordanien)	UFT	Zentrum für Umweltforschung und Umwelttechnologie (Bremen)
NAM S&T Centre	Non-aligned movement and Developing Countries Science and Technology Centre (Indien)	UFZ	Umweltforschungszentrum Leipzig-Halle GmbH
NICED	National Institute for Cholera and Enteric Diseases (Indien)	UN	United Nations
NIO	National Institute of Oceanography (Goa, Indien)	UNAM	University of Namibia
NIOZ	Nederlands Instituut voor Onderzoek der Zee (Texel)	UNEP	United Nations Environmental Programme
NRCT	National Research Council of Thailand	UNESCO	United Nations Educational, Scientific and Cultural Organization
ORCAS	OceanReef Coupling in the Andaman Sea	UNHAS	University of Hasanuddin (Indonesien)
OUC	Ocean University of China (V.R. China)	UNSOED	Universitas Jenderal Soedirman (Indonesien)
PACON	Pacific Congress on Marine Science and Technology	UOF	Union des Océanographes de France
PASARELA	Discovery Modelling Mediation Deliberation: Interface Tools for Multi-stakeholder Knowledge Partnerships for the Sustainable Management of Marine Resources and Coastal Zones	vdbiol	Verband Deutscher Biologen und biowissenschaftlicher Fachgesellschaften e.V.
Ph.D.	Doctor of Philosophy	WGL	Wissenschaftsgemeinschaft Gottfried Wilhelm Leibniz
PMBC	Phuket Marine Biological Center (Thailand)	WTZ	Wissenschaftlich-Technische Zusammenarbeit
		WZB	Wissenschaftszentrum Berlin
		YoMo	Young Modellers

