

Three-Year Report



2000-2002

Research
Training
Coordination

zmt Center for
Tropical Marine
Ecology

at the University of Bremen

Imprint

Published by:

Center for Tropical Marine Ecology
Fahrenheitstraße 6
28359 Bremen
Germany

Editors:

Prof. Dr. Venugopalan Ittekkot
Dr. Christiane Schnack
Dr. Susanne Eickhoff
Dr. Ursel Selent

Photos/Graphics:

ZMT Staff
MIKA Photography, Hamburg
Harald Rehling, Bremen

Design:

Møller Grafik, Bremen

Print:

ASCO Sturm Druck, Bremen

Contact:

Center for Tropical Marine Ecology
Fahrenheitstraße 6
28359 Bremen
Germany

Phone: ++49 (0)421 23 800 21

Fax: ++49 (0)421 23 800 30

contact@zmt-bremen.de

www.zmt-bremen.de

Table of Contents

page 3 **Introduction**

5 **Research**

5 **Brazil**

5 • Mangrove Dynamics and Management – MADAM

6 • Further Projects

7 **Middle East**

7 • Red Sea Program on Marine Sciences – RSP

8 • Further Red Sea Research Projects

9 **Indonesia**

9 • German-Indonesian Cooperation within Marine Sciences and Geosciences

9 • Joint Indonesian German Sunda Expedition – PreJIGSE

10 • Brantas-Madura Strait Biogeochemistry – BRAMS-I

11 • Biogeochemical Fluxes in Indonesian Seas – I

11 • Upwelling Region off South Java

12 **India**

12 • Upwelling Areas in the Northern Indian Ocean

12 • Joint Global Ocean Flux Study in the Indian Ocean (»JGOFS – Indik«)

13 • Further Projects

13 **Southern Africa Region**

13 • The Benguela Environment Fisheries Interaction and
Training Program – BENEFIT

14 **Cuba**

15 **Vietnam**

15 • Ecosystem Functioning of Rehabilitated versus Natural Mangroves
in the Can Gio Reserve, Vietnam

15 • Preliminary Studies on the Biogeochemistry of Small Rivers in Vietnam

16 **Peru**

16 • Modeling of the Ecological and Economic Consequences of the »El Niño«
Climate Phenomenon on the Multi-species Diving Fishery in South Peru

16 **Ghana**

17 **Training and Teaching**

17 • International Studies in Aquatic Tropical Ecology (ISATEC)

18 • Partner Program in Costa Rica (GIACT)

18 • NEBROC

18 • Course Series »The Sea and its Resources«

19 **Publications**

19 **Events**

21 **Public Relations**

page 22	Administration and Infrastructure
22	• Administration
22	• Library
22	• Laboratory
23	• EDP (Electronic Data Processing) and Data Management
23	Contact Office
24	International Ocean Institute – Operational Centre Germany
25	Appendix
25	Publications
33	Lectures
39	Poster Presentations
40	Participation in Events
49	Research Stays / Expeditions
52	Project Meetings
56	Teaching and Training
62	Events at ZMT
63	Visitors and Guest Researchers
73	Public Relations
78	ZMT Staff
79	Cooperation Agreements and Memberships
80	Board of Trustees
80	List of Acronyms

Approximately half of the world's population lives in coastal regions. Particularly for these people the sea plays a crucial role as a natural resource, as an abundant source of food, as a living and recreational area as well as a dumping ground for waste. The coming decades will witness especially in the tropics an increase in the number of people living in coastal regions: two-thirds of the world's population is expected to live there. If the current trends in the use of coastal zones continue, most will live in polluted, ecologically degraded mega-cities of more than 10 million inhabitants, all lacking in infrastructure.

The tropics provide classic examples: Mangrove forests are being cleared to make room for fast growing cities, for the expansion of road networks, for wood, or to provide a short-term source of income through aquaculture facilities. Coral reef ecosystems are under threat from destructive fishing practices, uncontrolled tourism and from bleaching that is observed in many regions. Since both coral reef and mangrove ecosystems shelter fish populations at various life stages, their degradation has an immediate impact on coastal fisheries. Land-based human activities compound the problems. Environmentally harmful chemicals from industries, nutrients and pesticides from agricultural activities and sediments from enhanced soil erosion are washed into the estuaries of rivers and coastal seas. As a consequence, pollution, eutrophication, as well as frequent occurrences of anoxic conditions and harmful algal blooms are major problems in many coastal areas. They affect the overall health of coastal ecosystems and their socio-economic and regulatory functions. Examples are their diminishing ability to provide food and their diminishing potential to act as sinks for climatically relevant trace gases.

In the coming decades the pressure on coastal ecosystems will further increase as a consequence of global climate change. The resulting feedbacks as well as pressure from increasing populations are likely to exacerbate these impacts affecting not just the tropics: They will have global consequences.

Local populations whose existence is most affected are amongst the least prepared for a solution to combat these problems. Integrated concepts for wise use of resources from coastal ecosystems are needed. In most

countries the necessary instruments are presently unavailable: lack of institutions, infrastructure, long-term projects and human capacity. This deficit also affects the necessary legislation, implementation and enforcement.

Today, »Integrated Coastal Zone Management« is being increasingly cited in conjunction with ecosystem research in coastal regions impaired by human uses. Its global scale and importance are underlined by its recognition and treatment in international conventions and treaties (e.g. UNCED, UNCBD). However, among countries that

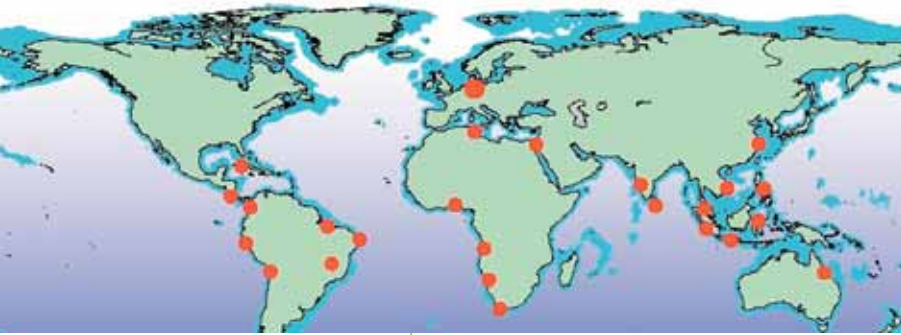


are parties to these conventions, many still lack the human and infrastructure resources to effectively comply with the resulting obligations. Several international agencies under the United Nations Organization (e.g. UNESCO-IOC, UNEP) as well as initiatives by industrialized nations through bilateral cooperative projects have been under way to remedy the situation.

The »Center for Tropical Marine Ecology« (Zentrum für Marine Tropenökologie – ZMT) was established in 1991 at the University of Bremen with basic funding from the State of Bremen and from project support from the Federal German Ministry for Education and Research. The ZMT's activities are tailored to meet the needs of tropical and subtropical countries in capacity and infrastructure building in the field of marine sciences. They focus on scientific issues related to the sustainable use and management of tropical and subtropical coastal ecosystems and their resources. The creation of global partnerships and international networks in research

and teaching hereby play a central role. The activities thus contribute to implementing the recommendations as outlined in the Agenda 21 and the United Nations World Summit on Sustainable Development (WSSD).

The ZMT is a member of the MARUM-association of marine research institutions and completes the broad spectrum of Bremen's marine science institutions with their re-



ZMT-Partners in the World

search and educational activities covering polar to tropical regions. With its own specific competences and in cooperation with other research institutions, at both the national as well as the international level, the ZMT contributes to advancing our understanding of earth system processes, their perturbation by human activities as well as to providing the necessary science base for the formulation of management plans for the sustainable use of coastal marine resources.

In April 2000, Professor V. Ittekkot succeeded Professor G. Hempel as the director of the institute. The ZMT has since then consolidated its existing research competence in coastal zone management and broadened the scope of its activities both thematically and

geographically. The existing expertise in the area of aquatic tropical ecology and biogeochemistry and of modeling as well as the accumulated experience in dealing with social and economic issues in coastal zone management are now being incorporated into projects in new tropical marine regions. Thus the center has been active through long-term bilateral research projects funded by the BMBF and the Deutsche Forschungsgemeinschaft (DFG) in Brazil, Cuba, Indonesia, Jordan and Vietnam. Furthermore, the good working relations with China, Ghana, India and Peru are being maintained within the framework of both smaller bilateral projects and projects within international programs. The cooperation with countries in the southern Africa region continues within the BENEFIT-Program.

The ZMT also entered into new cooperation agreements with a number of universities and research institutions in Cuba, Indonesia, the Philippines and Thailand. A Memorandum of Understanding (MoU) was signed with the International Ocean Institute (IOI) with the aim of establishing an IOI operational center for Germany in 2003.

The ZMT has been able to intensify its collaboration with the University of Bremen and within the Center for Marine Environmental Sciences (MARUM). This entails on the one hand, the management, quality control and need-orientated development of the ISATEC Study Program, with the increased involvement from University faculties. On the other hand, the ZMT contributed to conventional teaching offered by the various faculties of the University of Bremen in the fields of marine biology, biogeochemistry, as well as social sciences. New international study courses as well as certificate courses in marine tropical ecology were developed and promoted in cooperation with both national and international partners.

The ZMT's role as a national contact point and a central coordination unit for marine tropical research was strengthened through its »Contact Office for Tropical Coastal Research« (Contact Office Tropicoast). The Contact Office promotes communication and cooperation between scientists and research institutions both at national and international level with increasing involvement and inclusion of new partners from industry and commerce.



Mangrove Dynamics and Management – MADAM

The Mangrove Dynamics and Management program (MADAM) is a bilateral German-Brazilian project supported by the BMBF and the State of Bremen, and by the Brazilian research council CNPq. The project was initiated in 1995 under a special agreement between the State of Bremen and the Federal Ministry for Education and Research which foresaw support for the development of the ZMT into a national center for tropical marine ecology while effecting a stepwise transfer of the funding responsibility from the BMBF to the State of Bremen over a period of ten years.

Within the project, the ZMT and its partners from the University of Bremen and from the Brazilian Universidade Federal do Pará (UFPA) – located in Belém and Bragança – conduct research in the Caeté river estuary and its adjoining mangrove-covered peninsula to provide the scientific basis for its conservation and sustainable cultivation of the mangrove forests. Approximately 70% of the households in this area rely for their livelihood directly or indirectly on the natural products derived locally from the region. Mangrove trees provide the firewood for the operation of brickworks and baker-

conservational research projects and possible improvement of synergy effects. In spring 2001, the Brazilian and German project participants met at a 3-day planning workshop in Brazil. The cooperation agreement between the ZMT and UFPA was extended for another five years in July 2001. This was followed by the first joint German-Brazilian review of MADAM in Belém and Bragança in September. While approving the project work until 2005, the Joint Steering Committee recommended that periods of the German and Brazilian funding for the project be synchronized.

The cooperation between MADAM and an ongoing project within the framework of technical cooperation, PROPENSA (Programa de Renda Familiar), was intensified during the same period, and joint demonstration projects (PDIA-Programas Demonstrativas, tipo A) funded by the World Bank were initiated. This included a comprehensive survey of fish and crab catch in the research area as a basis for sustainable resource management, improvement of local fisheries product processing as well as trials on oyster farming as an alternative job creating measure for the rural population. The required



ies; the narrow channels and the coastal zone are intensely fished for sale and for personal consumption. Economically, the most important product in the region is the mangrove based terrestrial crab *Ucides cordatus*, the commercial exploitation of which gives good financial returns, but whose survival is currently threatened by uncontrolled exploitation. This interdisciplinary project builds on broad biogeochemical, ecological and socio-economic studies, develops ecological models and works out recommendations that will facilitate sustainable use of the system.

Results and experience from the MADAM project were presented at a German-Brazilian Conference in August 2000 in Hamburg that discussed the overall status of bilateral

scientific database on natural and anthropogenic processes involved was developed and can now be used in models describing the behavior of the system under specific scenarios. These new datasets, combined with those available in the mangrove information system, MAIS, provide the basis for the development of a »Decision Support System« contributing to the formulation of management recommendations.

These results provided the basis for defining the working foci for the third project phase that will devote itself to the synthesis of the results: (1) a synoptic analysis of the surface structure on a local and regional level, and (2) the management of natural resources and their relationship with natural,

economic and social systems, taking special account of the mangrove crab *Ucides cordatus*, the key exploited local species. These foci are to be supplemented by public awareness work and database management. The proposal for the project extension to the third phase was submitted in December 2001 and approved by the BMBF in August 2002.

Numerous German examination candidates and Master's students of the ISATEC course of study, as well as Brazilian undergraduate students, are involved in the MADAM project. Two Brazilian junior scientists are writing their doctorate theses on a MADAM topic at the University of Bremen.



Further Projects

BRAZIL

In August 2001, upon invitation and with the funding of the Departamento de Oceanografia, the ZMT participated in an investigation that will shed light on the exchange rate of water and plankton between the estuarine and coastal waters in the Canal de Santa Cruz. The samples and data collected are currently being analyzed in Recife and at the ZMT. Both canal exits were sampled four times at full moon and at half moon with CTD, ADCP (Acoustic Doppler Current Profiler) and various plankton nets over a 24 hour time period. Fourteen scientists and technicians participated in the sampling phase.

A joint research project with the Departamento de Oceanografia in Recife was applied for in 1999 at the Project Office of the BMBF in Warnemünde and a smaller exchange program at the BMBF's IB. The cooperative project for the examination of fish communities in a mangrove system was approved on the German side. These and other projects related to the management of coastal ecosystems and their resources are being taken up within the framework of new initiatives that are currently under way in marine science and technology cooperation between Brazil and Germany.

Red Sea Program on Marine Science – RSP

The »Red Sea Program on Marine Sciences – RSP«, initiated in 1995 with the financial support from the BMBF, was completed in 2002. The project was coordinated by the ZMT. The central topic of the project was the ecology of the coral lined Gulf of Aqaba. Within the project, a multidisciplinary team of marine scientists from German research institutions and universities worked together with a team of scientists from research organizations and institutions in Egypt, Jordan, Israel and Palestine.

ZMT scientists involved in reef research in the RSP, continued to work on the observation of organisms and water currents underwater and developed an automatic control of a video-system for day and night observations. In 2001, the results from the deployment of such a system (»CaveCam«, an endoscopic camera system for the exploration of small caves, recesses and niches in the coral reefs) were published in »Nature«.



The final phase of the program also saw the completion of doctoral theses by Jordanian students at the participating German institutions as well as the publication of the results within a theme section on »The Red Sea Programme« in the journal »Marine Ecology Progress Series«. The entire publication

process was coordinated and handled by the ZMT.

The plans for a final symposium had to be abandoned due to the continuing political crisis in the Middle East. However, the contacts established were kept alive within the bilateral programs with countries in the region. One such program (»Red Sea Ornamentals - Clean Aquaculture Project«) was initiated in cooperation with the Marine Science Station (MSS) at Aqaba in 2002 with the support of the BMBF. The project aims to develop environmentally friendly aquaculture and to produce reef organisms for the aquarium market. Today, the species that are favored by aquarists and aquarium owners mostly come from wild catches, which is detrimental for the coral reefs. The newly developing technology aims to produce marine ornamental organisms in closed artificial ecosystems and to obtain a high yield through the tight coupling of the nutrient cycles and use

MIDDLE EAST

of solar energy, without polluting the environment. The project was conceived during discussions with the University of Jordan, the Yarmouk University and the MSS in Aqaba in August 2001. Apart from the ZMT and the MSS, the Institute for Marine Research (IfM) in Kiel and the company Sander Enterprise



from Lower Saxony are involved in this German-Jordanian project.

Ongoing project work includes the breeding of the giant clam and the polyculture of reef organisms in a recirculation facility. First trials of the reproduction of the clams were successful. The planning for the construc-

tion of the recirculation facility has been progressing well and the foundation stone for the new laboratory was laid at the end of October 2002; the construction work is expected to start after the conclusion of the approval procedure in 2003.

Further Red Sea Research Projects

MIDDLE EAST

The cooperation with the RSP activities between the ZMT and the Alfred-Wegener-Institute for Polar and Marine Research on the subject of plankton research is being actively continued by a doctorate on the importance of zooplankton for the pelagic-benthic coupling in coral reefs in the Red Sea. The project, which is based at the MSS in Aqaba, receives inputs from research assistants from the Inter-University Institute in Elat, as well as from Israeli planktologists within the frame of the Israeli-Palestinian »Peace Park Project«. The contacts with the National Institute of Oceanography and Fisheries

(NIOF) in Egypt have been revived. These measures contribute to the development and expansion of present research capacity in the region as well as to the strengthening of training and updating of technical equipment. Furthermore, they are expected to promote interdisciplinary collaborations allowing for a better understanding of the region's unique marine ecosystems via, for example, the development and use of new technologies. The German contribution to these activities was emphasized at an event organized in Aqaba in October 2002 in honor of the coordinator of the RSP, Prof. G. Hempel.

German-Indonesian Cooperation within Marine Sciences and Geosciences

In 2000, the ZMT was nominated by the BMBF through the German-Indonesian Steering Committee on Marine Sciences and Geosciences to coordinate the development of an action plan for long-term bilateral cooperation between Germany and Indonesia in the field of marine sciences and geosciences. Its partners in Indonesia were the representatives from the Indonesian Ministry for Research and Technology and the Ministry for Marine Affairs and Fisheries.

Indonesia consists of 17,500 islands with a total coastline of over 80,000 km and a broad spectrum of different marine ecosystems such as sand dunes and beaches bordering estuaries, mud flats, mangrove forests, sea grass meadows and coral reefs. They constitute the transition to the open sea, where continental slopes, deep-sea abyssal plains and trenches characterize further ecosystems. The bilateral projects were to focus on coastal ecosystems and their resources with emphasis placed on developing the necessary scientific database for their sustainable management as well as on the development of the necessary human resources and infrastructure.

During the development of the action plan, scientists and representatives from German and Indonesian research institutions visited each other's institutions to acquaint themselves with the available infrastructure and human resources as well as to discuss ideas and themes for cooperation. A major event was the bilateral workshop held in association with a DAAD (German Academic Exchange Service) alumni seminar in Indonesia in March 2001. More than 100 scientists attended the event held at the University of Soedirman in Purwokerto, Indonesia. During the workshop and subsequent rounds of discussion in Bremen, Bonn and Jakarta, it was agreed to develop five project clusters under the focal theme »Sustainable management of coastal marine ecosystems«: (1) Coral

reef-based ecosystems and resources (South Sulawesi), (2) Towards developing measures for a sustainable use of the living resources of the Segara Anakan Lagoon (South Central Java), a tropical coastal ecosystem affected by environmental changes, (3) Coastal ecosystem health in Indonesia (Siak River, Riau Province, Sumatra), (4) Marine natural products and (5) Marine geology and biogeochemistry.

The proposals were submitted to the BMBF at the end of August 2002 under the overall title »Science for the Protection of Indonesian Coastal Marine Ecosystems (SPICE)«. They were approved by the German-Indonesian Steering Committee for Marine Sciences and Geosciences in October 2002 and the implementation began in 2003 under the overall coordination of the ZMT.

In addition to the development and coordination of the SPICE Program, the ZMT conducted three bilateral research projects in the field of marine ecology and biogeochemistry between 2000 and 2003, involving extensive field work on board Indonesian research vessels.



INDONESIA

Joint Indonesian German Sunda Expedition – PreJIGSE

The »PreJIGSE« expedition was carried out during 17.10. – 11.11.2000 on board the Indonesian research vessel RV »Baruna Jaya«. The major focus of the expedition was to collect ecological and biogeochemical data

from the Sunda shelf area. Fisheries biologists and biogeochemists from the ZMT and other German and Indonesian research institutions participated in this expedition under the overall coordination of the ZMT.

INDONESIA

Brantas – Madura Strait Biogeochemistry – BRAMS-I

INDONESIA

The ZMT coordinated the project »Brantas – Madura Strait Biogeochemistry (BRAMS-I)«, the goal of which is the biogeochemical characterization of the coastal waters off Java, which are influenced by the varying inputs from the Brantas River. The project is supported jointly by the BMBF and the Agency for the Assessment and Application of Technology (BPPT) in Indonesia.

The Brantas River flows over a stretch of 320 km and, near the city of Surabaya in East Java, divides into two main tributaries, the Wonokromo and the Porong, which drain into the Madura Strait. The climate in the river basin is determined by the monsoon and comprises mainly a dry period from May until October and a rainy period from November until April. Some 80% of the annual rainfall, and as a consequence, the peak river discharge, is between November and April. The river drains some of the most densely populated countryside and towns of Java: Malang, Blitar, Tulung Agung, Kediri, Jombang, Nganjuk, Mojokerto and Surabaya. In 1990, the number of people living in the catchment area of the Brantas River was estimated at approximately 13.7 million. Based on an aver-

use and (3) development of water supply systems to include private households and industrial users. These development measures resulted in drastic changes in the volume and the composition of flows into the estuary and the coastal waters. They affect the biodiversity and the biogeochemical processes in the adjacent coastal waters and will have an impact on their economic potential.

The field work within the project consisted of sampling the Brantas river, its artificial lakes, estuaries and the adjacent coastal waters of the Madura Strait and is coordinated in close cooperation with the Agency for the Assessment and Application of Technology (BPPT) in Jakarta and the Bundesamt für Seeschifffahrt und Hydrographie (BSH, Hamburg) and GKSS Research Center (Geesthacht) in Germany. The field campaigns took place between May 2001 and November 2002. Sample processing and analyses were conducted at the ZMT in Bremen and in the laboratories in Indonesia, and the data were exchanged with the Indonesian project partner. All available information on the biogeochemistry of the river, its artificial lakes and estuaries as well as on the Madura



age population growth of 2%, the current population must be over 16 million with an average population density of around 650 residents per km².

Over the last four decades, the river basin has undergone various stages of development that have had an impact on the river's ecology and biogeochemistry: (1) construction of dams to control flood waters, (2) creation of a system of irrigation for agricultural

Strait has now been compiled, and new data has been generated on the distribution of biogeochemical parameters in the river as well as on their seasonal variability over at least one hydrological year. Building on the results of the first project phase that ended in 2003, plans for submission of a new proposal for the second project phase were worked out with the Indonesian partner.

Biogeochemical Fluxes in the Indonesian Seas – I

The project »Biogeochemical Fluxes in the Indonesian Seas« investigates regions in the Indian Ocean that are characterized by



monsoon-related physical and biogeochemical features: upwelling areas south of Java, the western Arabian Sea, the equatorial Indian Ocean and the southern Bay of Bengal. The objectives are to establish the link between atmospheric and oceanographic phenomena off Indonesia with those of the western Indian Ocean. Several processes play a role in this. The water masses of the Indo-Pacific current are transported via the South Equatorial Current and the Somali Current into the Arabian Sea, where variations of the particle flux rates are influenced by the intensity of the Somali current. The Dipol-Mode couples the ocean area west of Indonesia with the western Indian Ocean, and although no clear signals for the »El Niño«-Southern Oscillation (ENSO) could be identified in the northern Indian Ocean, »El Niño« has been cited in connection with the delayed onset of the monsoon and decreasing monsoon rainfalls over India. The project is funded by the BMBF.

INDONESIA

Upwelling Region off South Java

The project off South Java measures the flux of particles from the sea surface to the deep sea with the aid of time-series sediment traps. Special attention is paid to the influence of climatic and oceanographic processes as well as to the nutrient dynamics linked with them on particle fluxes to the deep sea. On the German side, the project will be carried out in close cooperation with the University of Hamburg. The Indonesian partner in this case is the Agency for the Assessment and Application of Technology (BPPT) in Jakarta. In addition to this, there will also be participation on the part of Indonesian institutions like the ITS (Institute of Technology, Surabaya), the IPB (Bogor Agricultural University) as well as the LIPI (Indonesian Institute of Sciences).

The Indonesian Seas are influenced by the Asian monsoon system, the ENSO and by the, though restricted to the Indian Ocean, ENSO-like Ocean-Atmospheres-System

(Dipol-Mode). The aim of the project is to investigate their effects on biogeochemical processes in the region. By building on results of investigations in the Arabian Sea, the equatorial Indian Ocean and the southern Bay of Bengal, the project investigates whether there is any possible extension of the ENSO and Dipol signals observed off the coast of Java into the Indian Ocean.

During an expedition on board the Indonesian research vessel RV »Baruna Jaya IV« in October/November 2000, two time series sediment trap systems, JAM-I (Java-Mooring) and CIM-I (Cilacap-Mooring), were deployed off south-western Java. They were recovered and redeployed during cruises with RV »Baruna Jaya VII« and RV »Baruna Jaya IV« in December 2001 and in November 2002, respectively. The results allow the assessment of the factors that drive the pattern of biogeochemical fluxes within the upwelling systems.

INDONESIA

Upwelling Areas in the Northern Indian Ocean

INDIA

The ZMT cooperated with the Institute of Biogeochemistry and Marine Chemistry of the University of Hamburg (IfBM) and the National Institute of Oceanography (NIO) in Goa, India, in long-term studies of particle fluxes in the western Arabian Sea (Western Arabian Sea Trap – WAST), in the equatorial Indian Ocean (EIOT) and in the southern Bay of Bengal (Southern Bay of Bengal Trap – SBBT). These studies were funded by the BMBF and the DFG within the framework of bilateral cooperation between India and Germany on the one hand and within the IGBP-JGOFS Process Study in the Arabian Sea on the other hand.

Several moorings with time series sediment traps were recovered in the Arabian Sea and one was redeployed in the western Arabian Sea during a research cruise on the Indian vessel RV »Sagar Kanya« in May 2001. During a cruise of the same vessel in

October 2001, two similar moorings were recovered and redeployed in the Bay of Bengal. The results from the analyses of these samples were subsequently incorporated in the existing long-term data records. Furthermore, for the station in the southern Bay of Bengal, it was possible to significantly extend the data records for the stable N-Isotopes.

The available long-term data sets provide a basis for investigating the links between monsoon and ENSO events and opens up the possibility to assess the reaction of oceans to global environmental and climatic changes. The work has allowed the completion of several Diploma and Masters theses. In the report period, scientists from the Indian partner institute NIO visited the ZMT to participate in planning for the workshop »Particle Fluxes in the Indian Ocean«, to be held in Goa in 2003.

Joint Global Ocean Flux Study in the Indian Ocean – JGOFS-Indik

INDIA

The International IGBP program »Joint Global Ocean Flux Study – JGOFS« examines the carbon cycle and its associated elements in various key regions of the ocean, in order to better predict anthropogenic influences on natural cycles and their resulting effects on climate. Since 1995, the cooperative project »Joint Global Ocean Flux Study – JGOFS-Indik« was funded by the BMBF as a contribution to the JGOFS-Process Study in the Arabian Sea, and since 2001 was coordinated by the ZMT. The final phase of the project was carried out within the overall international »JGOFS-Data Synthesis and Modeling« coordinated by the Institute of Oceanography, Kiel.

The study area is characterized by biogeochemical processes that are influenced by the Asian monsoon, receives both eolian and fluvial inputs and has a permanent mid-water oxygen minimum layer. Because of the expected impact on the carbon cycle and nutrient dynamics, the examination of the coupled carbon-nitrogen cycle was at the center of research.

Five subprojects of the program concentrated on the development of a three-dimensional, coupled ocean-atmosphere model.

Preliminary results that allow correlations between the strength of the monsoons and greenhouse gas emissions (CO_2 and N_2O) from the Arabian Sea to be quantified, were presented at the German JGOFS conference held at the Institute for Marine Research (IfM) in Kiel at the end of September 2002, and are presently being prepared for publication. Furthermore, it is planned to incorporate the insights on the coupled carbon-nitrogen cycle into global climate models. Due to the possibility of the development of »dead zones« in the sea from restricted oxygenation due to global warming, the knowledge of the processes from the northern Indian Ocean is increasingly gaining significance.

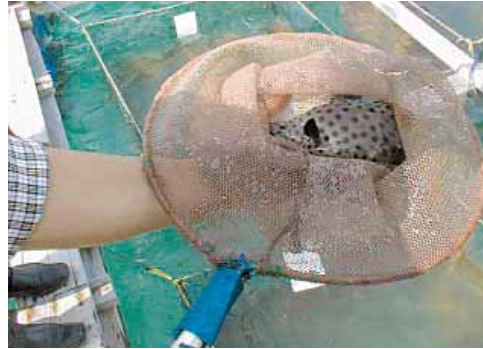
Principal investigators of the subprojects took part in the workshop on »Biogeochemical Processes in the Northern Indian Ocean« in early 2003, where results were discussed and a concluding report prepared. A synthesis book on the Indian Ocean is to be published before the concluding JGOFS Conference in Washington D.C. The German contribution to the international JGOFS-Indik synthesis was published in January of this year (JGOFS Report 35: www.uib.no/jgofs/jgofs.html).



Further Projects

The project »Impact of Shrimp Aquaculture Effluents on the Benthos Community in South Indian Coastal Waters«, a cooperation between the ZMT and the Fisheries College at the University of Agricultural Sciences in Mangalore, India, which is supported by the German-Indian scientific-technological collaboration, was completed at the end of 2001. A proposal on the »Impact of Shrimp Aquaculture Effluents on Adjacent Coastal Waters in South India« has been finalized. In November 2002, a German-Indian workshop took place at the ZMT during which future

collaboration on the subject of aquaculture was discussed.



INDIA

The Benguela Environment Fisheries Interaction and Training Program – BENEFIT

The »Benguela Environment Fisheries Interaction and Training Program – BENEFIT« is a regional research and development program with partners from Angola, Namibia and South Africa. The program is funded by several states, in particular by Germany and Norway. Within the context of this program, investigations are being carried out on the fishery resources in the Benguela upwelling areas, one of the most productive areas of the world's oceans. Besides fisheries-biological investigations on the size of stocks and issues surrounding recruitment, the project

on the ecology of fish larvae was conducted in Bremen in September 2000. In the meantime, the research results have been published in 16 manuscripts under participation of 48 authors and co-authors in the »South African Journal of Science« (Vol. 97, 2001).

Building on the cooperation forged during the 1999 expedition and the subsequent evaluation work, the ZMT has been carrying out investigations into the »Distribution Mechanisms of Zoo- and Ichthyoplankton in the Angola-Benguela Front«. This work is being conducted together with the working

**SOUTHERN AFRICA
REGION**



focuses on the interaction of important species with their environment. Training and further education of young scientists of the region form another important aspect.

In 2000 and 2001, the data and samples that were obtained during the expedition on board the South African vessel FRS »Africana« were evaluated. A special course

group »Marine Zoology« at the University of Bremen and included a seagoing expedition with FRS »Africana« in February 2002. First results of this cruise were presented at the South African Marine Science Symposium in Swakopmund, Namibia, in July 2002, and led to the formulation of a new proposal on the influence of low oxygen on fish recruitment.

Members of staff of the ZMT took part in the MARCUBA 2000 Congress on Marine Sciences in Havana in December 2000. The initial contacts at the meeting with marine researchers from the Cuban Instituto de Oceanología and from the Instituto de Ciencias Marinas de La Habana were used to discuss research areas for bilateral collaboration. Subsequently, a concept for the first phase of research cooperation between the



ZMT and the Cuban partners was developed. A proposal for cooperation was accepted by the Bremen Senate in October 2001, and a coordination unit for bilateral German-Cuban cooperation in marine research was established at the ZMT.

Among the unit's activities was the organization of a workshop funded by the BMBF and the Cuban Ministry for Science, Technology and the Environment (CITMA) on the subject of »Research for Sustainable Development« in Havana. The workshop provided a forum for the further development of cooperation initiatives. Official cooperation agreements between the Universities of Bremen and Havana were subsequently signed in 2002, on the basis of which the ZMT collaborates with the Centro de Investigaciones Marinas (CIM) and the Instituto de Oceanología (IdO).

In February 2002, the first German-Cuban planning workshop took place at the ZMT, which was attended by scientists from three Cuban institutions in Havana, the IdO, the CIM and the Centro de Investigaciones Pesqueras, as well as scientists from the Max-Planck-Institute (MPI) for Marine Microbiology in Bremen, the Terramare in Wilhelmshaven, the Alfred-Wegener-Institute in Bremerhaven, the Universities of Rostock, Oldenburg and Kiel, and the ZMT. The workshop created ideal conditions for

bringing together the bilateral study groups to develop common project plans. A bilateral project funded by the International Office (IB) of the BMBF since February 2002 now investigates questions concerning sustainable management of the Batabanó Gulf in Southern Cuba.

A second German-Cuban workshop funded by the Bremen Senate was organized in Havana in September 2002, at which the



joint project proposals were worked out in detail. From the German side, scientists from the MPI, Terramare and the ZMT, as well as representatives of the BMBF's International Bureau took part. Since November 2002, a Bilateral Project Office was established at the IdO in Havana, funded by the State of Bremen. The facilities at the Office are now available for use by the researchers involved in the bilateral collaboration.

Further to these activities, the DFG approved a project proposal to study the signals of past climate embedded in coral skeletons in Cuban waters, which will be coordinated by the ZMT and includes the participation of marine chemists and geologists from the University of Bremen. The project »Cuban European Climate Connection« has now been taken up for implementation.



In 2000, the ZMT conducted a bilateral workshop on »Land-Sea Nutrient Fluxes« under the sponsorship of SCOPE, EU as well as the IB of the BMBF and in cooperation with the Institute of Oceanography in Nha Trang, Vietnam. The workshop, held at the Institute of Oceanography in Nha Trang, brought together German and Vietnamese marine scientists as well as representatives of the IB and the DAAD. Several project ideas were formulated and discussed. These were subsequently taken up by the Deutsche Forschungsgemeinschaft for further development.

In November 2001, a delegation conducted by the DFG, visited various research institutions and universities in Hanoi, Nha Trang, Da Nang and Ho Chi Minh City with the aim of meeting interested researchers. During the visit, preliminary research and training projects for cooperation were developed. They were finalized at a DFG/MOSTE planning workshop in Hanoi in May 2002, under the common theme of »Land-Ocean-Atmospheric Interactions in the Coastal Zone of Southern Vietnam«. The goal is to explore the coastal zone of the Southern

Chinese Sea between upwelling areas and the mangrove belt by a bilateral interdisciplinary research team. The study includes expeditions with the Vietnamese RV »Nghien Cuu Bien« to collect data on the transitional zone from land to ocean.

The ZMT is coordinating the entire project »Land-Ocean-Atmospheric Interactions in the Coastal Zone of Southern Vietnam«, and conducts its own research within the subproject on »Ecosystem Functioning of Rehabilitated versus Natural Mangroves in the Can Gio Reserve, Vietnam«.



Ecosystem Functioning of Rehabilitated versus Natural Mangroves in the Can Gio Reserve, Vietnam

The project concentrates on a mangrove region in the Saigon River Delta where reforestation measures have successfully been implemented for several decades. Here the question arises whether the reforested

mangroves are comparable to natural ones in functionality and stability. The project proposals were submitted to the DFG and the MOSTE for funding in summer 2002.

Preliminary Studies on the Biogeochemistry of Small Rivers in Vietnam

The ZMT has been conducting the project »Preliminary Studies on the Biogeochemistry of Small Rivers in Vietnam« together with the Institute of Oceanography (IO) in Nha Trang, which was funded by the International Bureau of the German Federal Ministry of Education and Research and the Vietnamese Ministry of Science, Technology and Environment (MOSTE). The project collects data on the biogeochemical status of small rivers in Vietnam. During two joint expeditions (rainy

season, December; dry season, July), two rivers, one reservoir lake and some potential terrestrial sources like rice fields, aquaculture ponds and mangroves were sampled and the samples analyzed at the ZMT and the IO. In addition to the generation of new data on rivers of Vietnam, the project contributes to the training of young Vietnamese scientists in modern analytical methods in environmental and biogeochemical research at the ZMT.

Modeling of the Ecological and Economic Effects of the »El Niño« Climate Phenomenon on the Multi-species Diving Fishery in South Peru

PERU

From 1998 to 2001, the ZMT carried out a project funded by the Volkswagen Foundation on »Modeling of the Ecological and Economic Effects of the »El Niño« Climate Phenomenon on the Biodiversity of Diving Fishery in Southern Peru« together with the Peruvian project partner from the Universidad Nacional Agraria La Molina in Lima.

Within the framework of the project, an international postgraduate course on »Food



Webs and Energy Flow in Marine Ecosystems: Theoretical Foundations, Applications and Modeling« was conducted on the Isla Independencia in Peru in early 2000.

The analysis of data collected during field work in 1999 produced three main results: (1) A first empirical model was developed that permits a forecast of the magnitude of the scallop stock in the Independencia Bay, using information on the average water temperature during the six months period before and after the main reproductive period of the scallop. The fishing yield of the scallop is fundamentally a function of the minimum catch size. The reason is not only to be seen in the biomass maximization of the stock with advanced size (>60mm), but also in its

fertility, which increases exponentially with the size of the individual. If the mussels are collected when they are too small (as in 1997/8 during »El Niño«), the potential biomass of the present individual is not only unexploited, but the recruitment of the following generations is drastically reduced.

(2) The trophic modeling of the entire ecosystem of the Independencia Bay during



»El Niño« and normal meteorological periods shows that during »El Niño« primary production drastically decreases, but the efficiency of the energy transfer in between trophic levels increases and a shift in the dominance structure and relative biomass of species occurs. Both effects result in the increase of the fishing yield compared to a normal year.

(3) »El Niño« is hence to be regarded as a positive climate event with respect to invertebrate diving fishery. For the Independencia Bay this simultaneously means that the rich mussel population is also an attraction for visiting divers who will temporarily immigrate and hence contribute to the increase in fishing yield.

GHANA

The collaboration with the University of Cape Coast (UCC) goes back to the year 1997. It is primarily funded by the DAAD, and relies also on a Memorandum of Understanding (MoU) between the ZMT and the UCC.

The current cooperation is of benefit mainly for the ISATEC Program (s. below). The students of the program carry out their field work under the supervision of scientists from the Department of Zoology at the UCC.

The teaching activities of the ZMT are predominantly centered around the ISATEC program with almost all of its scientists participating in its execution. Furthermore, ZMT scientists offer lectures and seminars covering the traditional syllabus of Faculty 2

at the University of Bremen and conduct lectures at partner institutions in tropical countries. Students and researchers from these institutions regularly use the ZMT's library and laboratory facilities for their research.

International Studies in Aquatic Tropical Ecology – ISATEC

The international Master's course ISATEC (International Studies in Aquatic Tropical Ecology) has evolved well since its foundation in October 1999, both with respect to the fine tuning of the content within and between teaching modules, as well as the organization of the course by the ZMT. With the hiring of a coordinator in September 2001 as well as a tutor, the overall coordination of the program, the collaboration with the faculty administration as well as student mentoring could be substantially improved. The classes typically consist of one-third German and two-thirds foreign students. In September 2001, the first batch of 17 students received their Master of Science degrees. For the graduates of 2002, a graduation ceremony was organized.

Within the context of an accreditation procedure commissioned by the University of Bremen, the Accreditation, Certification and Quality Insurance Institute (ACQUIN) carried out a detailed evaluation of ISATEC in the first semester of 2002. This evaluation was based on a self-description of the course as well as on an internal survey carried out by a five-person expert panel. The Accreditation Commission came to the conclusion that ISATEC was »an exceptionally well qualified course of study, which is outstanding both with regard to content and concept«. In the combination of scientific and socio-economic expertise, as well as the conveying of scientific skills, the expert group perceived a successful expansion on traditional disciplines and an outstanding qualification for professional practice. Especially for foreign students, this combination would be a major criterion for the choice of the course. According to the expert commission, this kind of combination is unprecedented and unique in German higher education, and therefore deserves support from both the University and the State. The practical half-year in the





tropics is, despite occasional logistical complications, valued as particularly positive from both a technical and personal development perspective. The expert group confirmed the location of Bremen for ISATEC as being especially advantageous. A high level of disciplinary training is guaranteed by university institutions, as well as by linked institutes and external research institutions.

ISATEC is now part of the DAAD's focal program »Postgraduate Courses with Special Relevance to Developing Countries« and obtains seven full DAAD-scholarships for foreign participants.

Partner Program in Costa Rica – GIACT

Based on the European Union Project ALFA-COSTA, and coordinated by the ZMT, an international course of study GIACT (Gestión Integral de Areas Costeras Tropicales) was developed at the University of Costa Rica with the participation of five Latin American and three European partners. GIACT is, like ISATEC, set to be multidisciplinary, and is

also supported by the EU via scholarships for participants of the ALFA network since 2002 including two scholarships for students from the University of Bremen. In the long term, a twinning of ISATEC and GIACT will be explored, allowing for the exchange of students between the two programs.

NEBROC

NEBROC – Netherlands Bremen Oceanography – is a program under which the Netherlands has created a network on education and research in marine sciences. The ZMT has been taking part in the program as

a member of the MARUM group of institutions since 1997. The ZMT's contribution centered around a Ph.D. thesis under which a comparative investigation of Caribbean and Indo-Pacific sponges was carried out.

Course Series »The Sea and its Resources«

The German-Indonesian cooperation plans training courses in the field of marine science at the participating Indonesian research institutes and universities. A series of courses consisting of several modules on the subject of »The Sea and its Resources« have been

drawn up. Among the courses already conducted are those in fisheries biology, which were held at the Jenderal Soedirman University in Purwokerto, Indonesia, in September 2002.

Members of the staff of the ZMT published around 100 articles in peer-reviewed scientific journals and over 30 other publications during the reporting period. The in-house »ZMT-Contributions« Series has grown to over 15 volumes. ZMT staff members were involved in the editing of the Proceedings of the SCOPE workshop on »Land-Ocean Nutrient Fluxes:

The Silica Cycle« as a special issue in Vietnam's »Collections of Marine Research Works«.

Through its Contact Office and with the support of partners in Indonesia and the Philippines, the ZMT published two brochures compiling information on potential cooperation partners from both academic and private sectors in those countries.

Events

The ZMT organized several national and international workshops and symposia during 2000-2002, either on its own or in partnership with international organizations such as the EU, SCOPE and IOI, and national organizations such as the CDG, DFG, DAAD, GTÖ, IB-BMBF, LAFEZ and WWF. They addressed issues ranging from education and research in marine sciences, ocean products and services to ocean governance. In addition, it organized workshops devoted to the development of new partnership projects in China, Cuba, India and Indonesia at its facilities in Bremen as well as in Cuba and Indonesia.

The major events will be described in the subsequent paragraphs; a complete list can be found in the appendix.

In March 2000, a symposium on »Sea and coast today – On the ecology of shallow waters« was organized by the ZMT and co-sponsored by MARUM. More than 200 marine ecologists from Germany participated in the symposium with presentations on a broad spectrum of the German marine ecological research in shallow water bodies of various climate zones.

At the end of September 2000, the ZMT organized the international SCOPE-workshop on »Land-Ocean Nutrient Fluxes: The Silica Cycle« in Nha Trang, Vietnam, in collaboration with the Institute of Oceanography in Nha Trang. It was followed by a week-long German-Vietnamese workshop as well as lectures and training courses for junior scientists and students.

During the period under review, bilateral German-Indonesian meetings took place in both Germany and Indonesia to prepare the

»Action Plan for the German-Indonesian Cooperation on Marine Research«. This included a major workshop in »Marine Science Education, Research and Development« in Purwokerto, Indonesia, at which approximately 100 marine scientists and representatives of governmental as well as non-governmental organizations met in March 2001. The event was carried out in collaboration with the Jakarta office of the DAAD as an alumni



seminar and hosted by the University Jenderal Soedirman in Purwokerto. Participants came from Indonesia and from the neighboring South East Asian countries, as well as from leading marine research institutes in Germany. Included among the participants were about 90 former DAAD-scholars. The discussions at the workshop formed the basis of bilateral partnership projects with Indonesia which were subsequently developed.

To celebrate the 10th anniversary of the founding of the ZMT, a »ZMT Forum for Partnership in Research and Education 2001« was organized on May 22, 2001. The guests of honor were the German Minister for Education and Research, Ms Edelgard Bulmahn, and Bremen's Senator for Education and Science, Willi Lemke. The forum mainly addressed the role of the State of Bremen and its marine science institutes, especially the ZMT, in the implementation of national efforts for international cooperation in marine research.

The ZMT hosted a meeting of the Executive Council of the International Ocean Institute (IOI) with the participation of Prof. Elizabeth Mann Borgese in September 2001. This was followed by a ZMT-IOI Workshop on »Ocean Resources, Services and Products«, which took place at and was sponsored by the Hanse-Wissenschafts-Kolleg (HWK) in Delmenhorst. The future collaboration between the IOI and the ZMT was discussed and a Memorandum of Understanding signed in Halifax in November 2001 with provisions for establishing an IOI Operational Center at ZMT.

SCOPE's XIth General Assembly and scientific symposia were held in Bremen in September 2001 upon invitation from the DFG and the German National Committee.

considered issues regarding the human uses of coastal zones and their resources (»Environmental Issues in the Management of the Coastal Zone«).

At the first German-Cuban workshop entitled »Towards a Sustainable Management and Conservation of Cuban Ecosystems«, held in February 2002 at the ZMT, there was wide attendance including researchers from Havana as well as colleagues from Rostock, Kiel, Oldenburg and Wilhelmshaven. At the workshop, the developments of joint projects were discussed, which were to be set in concrete terms at a follow-up workshop in Havana in September 2002.

In close collaboration with the Contact Office for Tropical Coastal Research, the Carl Duisberg Gesellschaft (CDG) held the course program on coastal zone management for COASTMAN partners twice within the reporting period. The Contact Office organized accompanying excursions to aquaculture facilities in Schleswig-Holstein, as well as to companies from the fishing industry in Bremerhaven and Cuxhaven.

Together with the WWF and CDG, the Contact Office prepared the international conference entitled »Ten Years after Rio«, held in Bremen in the summer of 2002 with approximately 100 participants.



The participants included delegates of the national and international member organizations associated with SCOPE and select guests from partner organizations as well as governmental and non-governmental organizations. Parallel to the general assembly, two scientific symposia were organized. One of them dealt with the global state of the environment and the new challenges to environmental scientists in a decade of political and socio-economical changes (»The 1990s: Unforeseen Challenges and Lessons for Environmental Sciences«). The other, mainly

With respect to the German-Indian cooperation on coastal aquaculture, coastal fishing and coastal management, the State Agency for Development Cooperation held a bilateral workshop at the ZMT in November 2002, which was attended by two representatives each from the College of Fisheries in Mangalore, the Center for Earth Science Studies in Thiruvananthapuram, and the Institute for Ocean Management in Chennai. On the German side, the ZMT, the MPI for Marine Microbiology in Bremen, and representatives from the BMBF participated.

The ZMT redesigned the institute logo and the website. All information is now available in both English and German versions of the website.

Since 2000, the media's attention to activities and events at the ZMT has increased. Press releases were distributed locally by the Senate's press office, and nationally via the distributor of the Informationsdienst Wissenschaft (IDW).

The exhibition »Marine Research Weeks«, which had attracted great response in 1998, was conceptualized as a touring exhibition by MARUM and was set up in and around Bremen. Reflecting the work done within the MADAM project, the ZMT presented itself with a poster sequence and exhibits on artisanal fishing in the mangrove.

A children's film is being created in the context of the PUSH-program, which aims at promoting science communication. In the film, entitled »Adventures in the Coral Reef«, children will experience the vision of being submerged into caves of the coral reef as tiny beings where they will encounter a variety of different organisms. The project is supported by the »Stifterverband für die Deutsche Wissenschaft«. The filming took place in the Red Sea in cooperation with the MSS Aqaba and in a swimming pool in Worpswede, where the children were filmed. The computer animation was created by a company based in Munich. Accompanying information material is being produced in cooperation with children from a Montessori School in Munich.

The year 2002 was the »Year of the Geosciences«, in advance of which, the Bremen initiative »City of Science« called for the staging of five science Saturdays. They aimed to increase public awareness of Bremen and Bremerhaven as scientific locations. The ZMT was involved in the second science Saturday. The day was dedicated to university facilities on the main campus and the research institutions in Wiener Straße with the Fraunhofer Institute, the MPI for Marine Microbiology, the ZMT and the Universum Science Center. The ZMT's program included, amongst other things, a panel discussion with ISATEC students and the demonstration of fisheries biology research methods in the laboratory, as well as well-received children's games and drawing activities.

Furthermore, in July 2002 the ZMT was an attraction for the five so-called »Geotours«, which, based on a media partnership between MARUM and Bremen's daily newspapers, allowed an insight into Bremen's Geosciences and related fields for groups of 20 visitors each. With the slogan »Behind the Scenes«, readers of the daily newspapers were invited to participate in a competition to win a place in one of these visiting groups. The visitor group for the ZMT had to be narrowed down from 100 applicants. In various short presentations and visits to the laboratories the ZMT presented its research and training fields, where the concluding discussion and the many questions raised by the interested visitors made it clear that the ZMT had obtained a well known status amongst Bremen's population.

In the context of the »Year of the Geosciences«, the so-called »Science Summer« took place in Bremen at the end of August 2002, the climax of which was the »Long Night of the Sciences« on the 24th of August. Not only in the town center (Domshof), but also at the university and various other locations, interactive science was presented from the early evening until midnight, accompanied by artistic activities. As a member of the research association MARUM, the ZMT introduced itself with a film and poster presentation in the Glass Hall of the University and at the Domshof.

The ZMT scientists contributed popular science articles, for example for the yearbook of the Wittheit 2001/2002, dedicated to marine research in the State of Bremen. The ZMT was also involved in the production of a monthly newsletter within the MADAM project called »Folha do Mangue« containing information for the local population and providing accompanying teaching material for schools in Belém and Bragança in Brazil. In the interactive science guide of Bremen, »City of Science«, the ZMT presents a short portrait of its project activities.



Administration

New research activities and the increasing number of examination candidates, as well as staff returning from the tropics, led to a rapid increase in the number of ZMT staff which called for a spatial expansion. In order to accommodate the increase, the ZMT moved from Bremen's Center for Innovation and Technology (BITZ) in Fahrenheitstraße 1 to a new building and annex in Fahrenheitstraße 6

in October 2000. Presently the ZMT has access to good infrastructure, with additional room capacity that can also provide space for events such as training courses, workshops or study group meetings of up to 80 participants. The annex accommodates the institution's library and additional offices.

Library

The comparatively small library stock, categorized into »ecology«, »marine ecosystems«, »fisheries biology« and »coastal management« sections, as well as some titles on socio-economics and biochemistry literature, has nonetheless grown steadily in the current report period. As a donation, the library obtained a near complete set of the series published by SCOPE. It was generally agreed not to expand the stock of the »Journal of Experimental Marine Biology and Ecology«, since the journal is available at the University library. Instead subscriptions

were made to »Estuarine Coastal and Shelf Science«, »Global Biogeochemical Cycles« and »Science«. The library is also the location for the theses of the Master's course ISATEC, which is conducted in collaboration with the University of Bremen. The library is a member of the German Association of Marine-Scientific libraries.



Laboratory

The development and refinement of analytical techniques were continued. This especially concerned the areas of mass spectrometry, amino acid analysis by HPLC and the analysis of organic acids via ion chromatography. With financial support from MARUM, various small apparatuses were purchased for use in biogeochemical work. New methods for opal determination and Winkler-Titration according to WOCE were introduced. The laboratory also has an automatic redox-titration system at its disposal, the DOC-quantification has been computerized and the phosphate analysis was optimized with the introduction of the FIAS-method (Flow Injection Analysis System). For this, a cooperation with the company Skalar in Erbelenz was established.

Good cooperation arrangements exist with the chemistry laboratories of the AWI in Bremerhaven, of the IfM and the Institute for Polar Ecology (IPÖ) in Kiel, of the IOW in Warnemünde, of the ICBB of the Uni-

versity of Oldenburg and of the neighboring institutes in Bremen (FB5, MPI).

Chemistry practicals of the ISATEC program are regularly held in the facilities of the ZMT.



EDP (Electronic Data Processing) and Data Management

With the move into the premises in Fahrenheitstraße 6 in October 2000, a newly installed Ethernet connection was put into operation which is connected to the campus network via optical fiber cables.

The administrative maintenance of the computers and network was taken care of by two employees of the Center for Applied Information Technology (Zentrum für Angewandte Informationstechnologien – ZAIT) of the University of Bremen on a contract

basis. Due to an increase in numbers of both staff and student bodies on one hand and the expansion of the computer network on the other, the demands of the ZMT could no longer be met. Therefore, a new post for the maintenance of the network, the homepage and workstation computers was set up and filled in November 2002.

Contact Office

The Contact Office at the ZMT was originally established in 1995 to act as a contact point providing information and services in education, research and development in the field of tropical marine ecology and to facilitate communication and cooperation between scientists and research institutions at national and international levels. For this, the Contact Office draws upon the enormous experience and expertise available at the ZMT through its international partnership projects in the tropics.

In addition to the routine duties concerning national and international communication as outlined above, its work during 2000-02 focused on three areas: (1) Establishment of contacts between the ZMT and the small and medium sized enterprises (SMEs), (2) Acquisition of funds for information surveys and pilot studies relating to fisheries management, and (3) Preparation of cooperation contracts and agreements with new partners.

The Contact Office is a member of the action group »Aquaculture«, which was founded by the Bremerhaven Investment and Town Development Agency (Bremerhaven Investitions- und Stadtentwicklungsgesellschaft – BIS), and which also counts representatives in the senate, investors, scientists and SMEs amongst its members. A preliminary study on the construction of aquaculture facilities, which was conducted in collaboration with the company ECOMARES in Büsum, was presented to the action group.

A cooperation agreement was made with the company of consulting engineers POLYPLAN in Bremen, which is responsible for the construction plans of an experimental facility at the ZMT.

The Contact Office contributed information for the development of a GTZ-sector project on the subject of »Code of Conduct« (FAO) in the field of »Fisheries in the Tropics« with the support from BMZ.

During 2000-02, the Contact Office prepared the Memorandum of Understanding with the National Aquatic Resource Agency (NARA) in Sri Lanka, as well as with universi-



ties in Indonesia, the Philippines and Malaysia. Furthermore, the Contact Office is involved in the selection and allocation of candidates for the DAAD special scholarship program »Marine Research«.

The evaluation of the old ZMT homepage has demonstrated that the page of the Contact Office is the ZMT's most frequently visited page, especially for brochure downloads.

The »International Ocean Institute« (IOI) was founded as a non-governmental organization by Prof. Elisabeth Mann Borgese in 1972. The IOI perceives its mission as being



Courtesy of the International Ocean Institute, Malta

a contributor to capacity building for the conservation of the marine environment and to the peaceful exploitation of the seas and their resources, through research, education and on the job training. The internationally renowned annual conference »Pacem in Maribus« contributes especially to this. Globally, the IOI today has 22 closely collaborating branches at its disposal and its headquarters in Malta. The IOI hence represents a unique global network that is coordinated from Malta.

In December 2000, the first »Pacem in Maribus« conference took place in Hamburg. A discussion forum considered the possibility of an IOI branch in Germany, and the ZMT was chosen as a cooperative partner for this. After the conference, Prof. Mann Borgese gathered information on the responsibilities

and structure of the ZMT in Bremen. Subsequently, the ZMT, together with the IOI and the Hanse Institute for Advanced Study, conducted a workshop on the topic of »Ocean Services and Products« in September 2001 in Delmenhorst. Prior to the workshop, the Executive Council of the IOI convened at the ZMT in order to discuss details of the cooperation. In November 2001, the IOI and ZMT signed a Memorandum of Understanding for the duration of 3 years in Halifax, Canada. On this basis, the IOI and ZMT want to gather expertise on the subject of »Ocean Science Contribution to the Service Economy«, which is then to be profitable to both in the form of jointly conducted courses of training and further education or projects in the marginal seas of Europe, in Southern Africa, as well as in South East Asia. The raising of funds for such activities is to take place jointly. Dr. W. Ekau was nominated for implementing the IOI-related activities at the ZMT.



Courtesy of Barbara S. Trost

- Bange, H.W., M.O. Andreae, S. Lal, C.S. Law, S.W.A. Naqvi, P.K. Patra, T. Rixen & R.C. Upstill-Goddard (2001): Nitrous oxide emissions from the Arabian Sea: A synthesis. *Atmos. Chem. Phys.* 1, 61-71.
- Barletta, M., U. Saint-Paul, A. Barletta-Bergan, W. Ekau & D. Schories (2000): Spatial and temporal distribution of *Myrophis punctatus* (Ophichtidae) and associated fish fauna in a North Brazilian intertidal mangrove forest. *Hydrobiologia* 426 (1-3) 65-74.
- Barletta-Bergan, A., M. Barletta & U. Saint-Paul (2002): Structure and seasonal dynamics of larval fish in the Caeté River Estuary in North Brazil. *Estuarine, Coastal and Shelf Science* 54, 193-206.
- Bauer, S., U. Berger, H. Hildenbrandt, D. Eisinger & V. Grimm (2001): Modellierung von Nachbarschaftskonkurrenz in Pflanzenpopulationen: Test eines neuen individuenbasierten Ansatzes. In: F. Jopp & G. Weigmann (Hrsg.), *Rolle und Bedeutung von Modellen für den ökologischen Erkenntnisprozess. Theorie in der Ökologie Band 4*, 31-42 (Frankfurt).
- Bauer, S., U. Berger, H. Hildenbrandt & V. Grimm (2002): Cyclic dynamics in simulated plant populations. *Proc. R. Soc. Lond. B.* 269, 2443-2450.
- Behling, H. (2000): A 2860-year high resolution pollen and charcoal record from the Cordillera de Talamanca in Panama: a history of human and volcanic forest disturbance. *The Holocene* 10, 387-393.
- Behling, H., H. Arz, J. Pätzold, J. & G. Wefer (2000): Late Quaternary vegetational and climate dynamics in northeastern Brazil, inferences from marine core GeoB 3104-1. *Quaternary Sciences Reviews* 19, 981-994.
- Behling, H. & M.L. Costa (2000): Holocene environmental changes from the Rio Curuá record in the Caxiuanã region, eastern Amazon Basin. *Quaternary Research* 53, 369-377.
- Behling, H. & H. Hooghiemstra (2000): Holocene Amazon rainforest-savanna dynamics and climatic implications: high-resolution pollen record Laguna Loma Linda in eastern Colombia. *J. Quaternary Sciences* 15, 687-695.
- Behling, H. (2001): Late Quaternary environmental changes in the Lagoa da Curuca region (eastern Amazonia) and evidence of *Podocarpus* in the Amazon Lowland. *Vegetation History and Archaeobotany* 10, 175-183.
- Behling, H., S.G. Bauermann & P.C. Neves (2001): Holocene environmental changes from the São Francisco de Paula region, southern Brazil. *J. South American Earth Sci.* 14, 631-639.
- Behling, H., M.C.L. Cohen & R.J. Lara (2001): Studies on Holocene mangrove ecosystem dynamics of the Bragança Peninsula in northeastern Pará, Brazil. *Paleogeography, Paleoclimatology, Paleoecology* 167, 225-242.
- Behling, H. & M.L. Costa (2001): Holocene vegetational and coastal environmental changes from the Lago Crispim record in northeastern Pará State, eastern Amazonia. *Review of Paleobotany and Palynology* 114, 145-155.
- Behling, H. & H. Hooghiemstra (2001): Neotropical Savanna Environments in Space and Time: Late Quaternary Inter-hemispheric Comparisons. In: V. Markgraf (Hrsg.), *Interhemispheric Climate Linkages*, 307-323 (San Diego, San Francisco, New York).
- Behling, H., G. Keim, G. Irion, W. Junk & J. Nunes de Mello (2001): Holocene environmental changes inferred from Lago Calado in the Central Amazon Basin (Brazil). *Paleogeography, Paleoclimatology, Paleoecology* 173, 87-101.
- Behling, H. & R.R.B. Negrelle (2001): Late Quaternary tropical rain forest and climate dynamics from the Atlantic lowland in southern Brazil. *Quaternary Research* 56, 383-389.
- Behling, H. (2002): Beiträge zur Geschichte der Araukarienwälder, des Campos und der atlantischen Regenwälder Süd- und Südostbrasilien im Spätquartär. *Berichte der Reinhold-Tüxen-Gesellschaft* 14, 59-68.
- Behling, H. (2002): Carbon storage increases by major forest ecosystems in tropical South America since the Last Glacial Maximum and the early Holocene. *Global and Planetary Change* 33, 107-116.
- Behling, H. (2002): South and Southeast Brazilian grasslands during Late Quaternary times: a synthesis. *Paleogeography, Paleoclimatology, Paleoecology* 177, 19-27.
- Behling, H., H.W. Arz, J. Pätzold & G. Wefer (2002): Late Quaternary vegetational and climate dynamics in southeastern Brazil, inferences from marine core GeoB 3229-2

PUBLICATIONS

- and *GeoB 3202-I*. *Paleogeography, Paleoclimatology, Paleoecology* 179, 227-243.
- Berger, U. & M. Glaser (2000): Unwissenheit und Risiko beim Management von Mangrovegebieten am Beispiel der Halbinsel von Bragança an der Küste von Nord-Ost Pará, Brasilien. In: K. Mathes et al. (Hrsg.), *Systemtheorie in der Ökologie*. ECOMED, Reihe Naturwissenschaften, 25-36 (Frankfurt).
- Berger, U. & H. Hildenbrandt (2000): A new approach to spatially explicit modelling of forest dynamics: spacing, ageing and neighbourhood competition of mangrove trees. *J. Ecological Modelling* 132, 287-302.
- Berger, U. & H. Hildenbrandt (2001): Nachbarschaftsfelder zur Untersuchung ökologischer Interferenzen - vom Anfang und Ende der Selbstausdünnung. In: F. Jopp & G. Wiegmann (Hrsg.), *Rolle und Bedeutung von Modellen für den Erkenntnisprozess in der Ökologie*. Theorie in der Ökologie Band 4, 19-30 (Frankfurt).
- Berger, U., H. Hildenbrandt & V. Grimm (2002): Towards a standard for the individual-based modeling of plant populations: self-thinning and the field-of-neighbourhood approach. *Natural Resource Modeling* 15 (1) 39-54.
- Berrio, J.C., H. Hooghiemstra, H. Behling, P. Botero & K. Van der Borg (2002): Late Quaternary savanna history of the Colombian Llanos Orientales from Lagunas Chenevo and Mozambique; a transect synthesis. *The Holocene* 12, 35-48.
- Buck, B.H., H. Rosenthal & U. Saint-Paul (2002): Effect of increased irradiance and thermal stress on the symbiosis of *Symbiodinium microdriaticum* and *Tridacna gigas*. *Aquat. Living Resour.* 15, 107-117.
- Bush, M.B., M. Stute, P.A. Colinvaux, M.P. Ledru, H. Behling, P. Bradbury, P.E. De Oliveira, E. Grimm, H. Hooghiemstra, S. Haberle, B. Leyden, M.L. Salgado-Labouriau & T. Webb (2001): Paleotemperature Estimates for the Lowland Americas Between 30° S and 30° N at the Last Glacial Maximum. In: V. Markgraf (Hrsg.), *Interhemispheric Climate Linkages*, 293-306 (San Diego, San Francisco, New York).
- Cohen, M.C., R.J. Lara, C.F. Szlafsztein & T. Dittmar (2000): Digital Elevation Models as a GIS Tool for the Analysis of Mangrove Coasts. Amazon Region, Brazil. *International J. of Environmental Creation* 3 (2) Anex.
- Defren-Janson, K., S. Schnack-Schiel & C. Richter (2000): Mesozooplankton communities in the Magellan region. *Sci. Mar.* 63, Supl. 1, 43-50.
- Dittmann, S. (2000): Zonation of benthic communities in a tropical tidal flat of north-east-Australia. *J. Sea Res.* 43, 33-51.
- Dittmann, S. (2001): Abundance and distribution of small infauna in mangroves of Missionary Bay, North Queensland, Australia. *Rev. Biol. Trop.* 49 (2) 535-544.
- Dittmann, S. & J.A. Vargas (2001): Tropical Tidal Flat Benthos Compared Between Australia and Central America. In: K. Reise (Hrsg.), *Ecological Comparisons of Sedimentary Shores*. *Ecological Studies* 151, 271-293.
- Dittmann, S. (2002): Benthic fauna in tropical tidal flats – a comparative perspective. *Wetlands Ecology and Management* 10, 189-195.
- Dittmann, S. (2002): Benthic fauna in tropical tidal flats of Hinchinbrook Channel, NE Australia: diversity, abundance and their spatial and temporal variation. *Wetlands Ecology and Management* 10, 323-333.
- Dittmann, S. (2002): Stuck in the mud. *Rev. Biol. Trop.* 50 (3/4), 865-868.
- Dittmar, T. & M. Birkicht (2001): Regeneration of nutrients in the northern Benguela upwelling and the Angola-Benguela Front areas. *South African J. of Science* 97 (5/6) 239-245.
- Dittmar, T. & R.J. Lara (2001): Do mangroves rather than rivers provide nutrients to coastal environments south of the Amazon River? Evidence from long-term flux measurements. *Mar. Ecol. Prog. Ser.* 213, 67-77.
- Dittmar, T. & R.J. Lara (2001): Driving forces behind nutrient and organic matter dynamics in a mangrove tidal creek in North Brazil. *Estuarine, Coastal and Shelf Science* 52, 249-259.
- Dittmar, T. & R.J. Lara (2001): Molecular evidence for lignin degradation in sulfate-reducing mangrove sediments (Amazônia, Brazil). *Geochim. Cosmochim. Acta* 65 (9) 1417-1428.
- Dittmar, T., R.J. Lara & G. Kattner (2001): River or mangrove? Tracing major organic matter sources in tropical Brazilian coastal waters. *Mar. Chem.* 73, 253-271.
- Ekau, W. & J. Blay (2000): Validation of daily increment deposition and early development in the otoliths *Sarotherodon melanotheron*. *J. Fish Biol.* 57, 1539-1549.

- Ekau, W., A. Hendricks, S. Kadler, V. Koch & N. Loick (2001): Winter ichthyoplankton in the northern Benguela upwelling and Angola/Benguela front area. *South African J. Science* 97, 259-265.
- Grimm, E., S.L. Garcia, H. Behling & V. Markgraf (2001): Holocene Vegetation and Climate Variability in the Americas. In: V. Markgraf (Hrsg.), *Interhemispheric Climate Linkages*, 325-370 (San Diego, San Francisco, New York).
- Hempel, G. & C. Richter (2002): The Red Sea Programme: sailing a nutshell of hope in Red Sea waters. *Mar. Ecol. Progr. Ser.* 239, 231-232.
- Hempel, G. & C. Richter (Hrsg.) (2002): Theme Section: The Red Sea Programme – Ecological Studies in the Gulf of Aqaba. *Mar. Ecol. Progr. Ser.* 239, 231-310.
- Hürkamp, C., P.W. Glynn, L. D'Croz, J.L. Maté & S.B. Colley (2001): Bleaching and recovery of five Eastern Pacific corals in an El Niño-related temperature experiment. *Bull. Mar. Sci.* 69 (1) 215-236.
- Hupe, A., H. Thomas, V. Ittekkot & R. Lendt (2001): Inventory of released inorganic carbon from organic matter remineralization in the deeper Arabian Sea. *J. Geophys. Res.* 106 (C12) 31,189-31,196.
- Ittekkot, V., C. Humborg & P. Schäfer (2000): Hydrological Alterations and Marine Biogeochemistry: A Silicate Issue? *BioScience* 50 (9) 776-782.
- Ittekkot, V., L. Rahm, D. P. Swaney & C. Humborg (2000): Perturbed Silicon Cycle Discussed. *Eos, Transactions, American Geophysical Union* 81 (18) 198, 200.
- Jennerjahn, T.C. & V. Ittekkot (2002): Relevance of mangroves for the production and deposition of organic matter along tropical continental margins. *Naturwissenschaften* 89, 23-30.
- Jiménez, C. (2001): Arrecifes y ambientes coralinos de Bahía Culebra, Pacífico de Costa Rica: Aspectos biológicos, económico-recreativos y de manejo. *Rev. Biol. Trop.* 49, Supl. 2, 215-231.
- Jiménez, C. (2001): Bleaching and mortality of reef organisms during a warming event in 1995 at the Caribbean coast of Costa Rica. *Rev. Biol. Trop.* 49, Supl. 2, 233-238.
- Jiménez, C. (2001): Seawater temperature measured at the surface and at two depths (7 and 14 m) in one coral reef at Culebra Bay, Gulf of Papagayo, Costa Rica. *Rev. Biol. Trop.* 49, Supl. 2, 153-161.
- Jiménez, C. & J. Cortés (2001): Effects of the 1991-92 El Niño on scleractinian corals of the Costa Rican central Pacific coast. *Rev. Biol. Trop.* 49, Supl. 2, 239-250.
- Jiménez, C., J. Cortés, A. León & E. Ruíz (2001): Coral bleaching and mortality associated with the 1997-1998 El Niño event in an upwelling environment at the eastern Pacific (Gulf of Papagayo, Costa Rica). *Bull. Mar. Sci.* 68, 151-169.
- Kappner, I., S. Al-Moghrabi & C. Richter (2000): Mucus-net feeding by the vermetid gastropod *Dendropoma maxima* in coral reefs. *Mar. Ecol. Progr. Ser.* 204, 309-313.
- Katsuragawa, M. & W. Ekau (2001): Distribution, growth and mortality of young rough scad, *Trachurus lathami*, in the southeastern Brazilian Bight. *J. Appl. Ichthyol.* 17, 1-8.
- Khalaf, M.A. & M. Kochzius (2002): Changes in trophic community structure of shore fishes at an industrial site in the Gulf of Aqaba, Red Sea. *Mar. Ecol. Progr. Ser.* 239, 287-299.
- Khalaf, M.A. & M. Kochzius (2002): Community structure and biogeography of shore fishes in the Gulf of Aqaba, Red Sea. *Helgoland Marine Research* 55, 252-284.
- Koch, V. & M. Wolff (2002): Energy budget and ecological role of mangrove epibenthos in the Caeté estuary, North Brazil. *Mar. Ecol. Progr. Ser.* 228, 119-130.
- Kötter, I. & J. Pernthaler (2002): In situ feeding rates of obligate and facultative coelobite (cavity-dwelling) sponges in a Caribbean coral reef. *Proceedings of the 9th International Coral Reef Conference, Bali, Indonesia, 23-27 October 2000*, 1, 347-352.
- Krause, G., D. Schories, M. Glaser & K. Diele (2001): Spatial patterns of mangrove ecosystems: The Bragantinian mangroves of northern Brazil (Bragança, Pará). *Ecotropica* 7 (1-2) 93-107.
- Kunzmann, A. (2000): Marine Ecosystems of Western Sumatra. In: C. Sheppard (Hrsg.), *Seas at the Millennium - An environmental evaluation. Volume 2: Regional chapters, the Indian Ocean to the Pacific*, 386-387 (Amsterdam).
- Lara, R.J., C.F. Szlafsztein, M.C.L. Cohen, U. Berger & M. Glaser (2002): Implications of mangrove dynamics for private land use in Bragança, North Brazil: a case study. *Journal of Coastal Conservation* 8, 97-102.
- Marchant, R., H. Behling, J.C. Berrio, A.M. Cleef, H. Hooghiemstra, J. Duivenvoorden, P.

PUBLICATIONS

- Kuhry, A.B.M. Melief, B. van Geel, T. van der Hammen, G. van Reenen & M. Wille (2001): Mid- to Late-Holocene pollen-based biome reconstructions for Colombia. *Quaternary Science Reviews* 20, 1289-1308.
- Marchant, R., L. Almeida, H. Behling, J.C. Berrio, M. Bush, S. Cleef, J. Duivenvoorden, M. Kappelle, P.E. De Oliveira, A.T. De Oliveira-Filho, M.S. Lozano-Garcia, H. Hooghiemstra, M.-P. Ledru, B. Ludlow-Wiechers, V. Mancini, V. Markgraf, M. Paez, A. Prieto, O. Rangel & M.L. Salgado-Labouriau (2002): Distribution and ecology of parent taxa of pollen lodged within the Latin American Pollen Database. *Review of Paleobotany and Palynology* 121, 1-75.
- McLean, R.F. & A. Tsyban; Lead Authors: V. Burkett, J.O. Codignotto, D.L. Forbes, N. Mimura, R.J. Beamish & V. Ittekkot (2001): Coastal Zones and Marine Ecosystems. In: J.J. McCarthy et al. (eds), *Climate change 2001: Impacts, Adaptation, and Vulnerability*, 343-379 (Cambridge).
- Nurse, L.A. & G. Sem; Lead Authors: J.E. Hay, A.G. Suarez, P.P. Wong, L. Briguglio & S. Ragoonaden; Contributing Authors: A. Githeko, J. Gregory, V. Ittekkot, U. Kaly, R. Klein, M. Lal, A. McKenzie, H. McLeod, N. Mimura; J. Price, Dahe Qin, B. Singh & P. Weech (2001): Small Islands States. In: J.J. McCarthy et al. (eds), *Climate change 2001: Impacts, Adaptation, and Vulnerability*, 843-875 (Cambridge).
- Orlóci, L., V. D. Pillar, H. Behling & M. Anand (2002): Some interesting characteristics of the vegetation process. *Community Ecology* 3 (2) 125-146.
- Ortiz, M. & M. Wolff (2002): Application of loop analysis to benthic systems in northern Chile for the elaboration of sustainable management strategies. *Mar. Ecol. Progr. Ser.* 242, 15-27.
- Ortiz, M. & M. Wolff (2002): Dynamical simulation of mass-balance trophic models for benthic communities of northern-central Chile: assessment of resilience time under alternative management scenarios. *Ecological Modelling* 148, 277-291.
- Ortiz, M. & M. Wolff (2002): Trophic models of four benthic communities in Tongoy Bay (Chile): comparative analysis and preliminary assessment of management strategies. *J. Exp. Mar. Biol. Ecol.* 268, 205-235.
- Rasheed, M., M.I. Badran, C. Richter & M. Hüttel (2002): Effect of reef framework and bottom sediment on nutrient enrichment in a coral reef of the Gulf of Aqaba, Red Sea. *Mar. Ecol. Progr. Ser.* 239, 277-285.
- Reschke, S., V. Ittekkot & N. Panin (2002): The Nature of Organic Matter in the Danube River Particles and North-western Black Sea Sediments. *Estuarine, Coastal and Shelf Science* 54, 563-574.
- Richter, C., P. R. Burbridge, C. Gätje, B.A. Knoppers, O. Martins, L. Talaue-McManus, M.A. K. Ngoile, M. J. O'Toole, S. Ramachandran & W. Salomons (2001): Integrated Coastal Management in Developing Countries. In: B. von Bodungen & R.K. Turner (Hrsg.), *Science and Integrated Coastal Management*. Dahlem Workshop Rep. 85, 253-308 (Berlin).
- Richter, C., M. Wunsch, M. Rasheed, I. Kötter & M.I. Badran (2001): Endoscopic exploration of Red Sea coral reefs reveals dense populations of cavity-dwelling sponges. *Nature* 413, 726-730.
- Richter, C. (2002): Sponging up plankton in coral reefs. *Directions in Science* 1, 31-32.
- Rodrigues-Filho, S., H. Behling, G. Irion & G. Müller (2002): Evidence for lake formation as a response to an inferred Holocene climatic transition in Brazil. *Quaternary Research* 57, 1-7.
- Saint-Paul, U., J. Zuanon, M.A. Villacorta Correa, M. Garcia, N.N. Fabre, U. Berger & W.J. Junk (2000): Fish communities in central Amazonian white- and blackwater floodplains. *Environmental Biology of Fishes* 57, 235-250.
- Sarin, M. M., S. Krishnaswami, T. K. Dalai, V. Ramaswamy & V. Ittekkot (2000): Settling fluxes of U- and Th-series nuclides in the Bay of Bengal: results from time-series sediment trap studies. *Deep Sea Res., Part I, Oceanogr. Res.* 47 (10) 1961-1985.
- Schmidt, S., M. Wolff & J.A. Vargas (2002): Population ecology and fishery of *Citarius pica* (Gastropoda: Trochidae) on the Caribbean coast of Costa Rica. *Rev. Biol. Trop.* 50 (3/4), 1079-1090.
- Schories, D. & U. Mehlig (2000): CO₂ gas exchange of benthic microalgae during exposure to air: rapid assessment of primary production. *Wetlands Ecology and Management* 8 (4) 273-280.
- Schories, D., J. Anibal, A.S. Chapman, E. Herre, I. Isaksson, A.I. Lillebø, L. Pihl, K. Reise, M. Sprung & M. Thiel (2000): Flagging Greens: The role of hydrobiid snails as sub-

- strata for the development of green algal mats (*Enteromorpha* spp.) on tidal flats of North Atlantic coasts. *Mar. Ecol. Progr. Ser.* 199, 127-136.
- Skoog, A., R. Lara & G. Kattner (2001): Spring-summer cycling of DOC, DON and inorganic N in a highly seasonal system encompassing the northeast Water Polynya, 1993. *Deep Sea Res., Part I, Oceanogr. Res.* 48 (12) 2613-2629.
- Söllner, R., K. Warnke, U. Saint-Paul & D. Blohm (2000): Sequence divergence of mitochondrial DNA indicates cryptic biodiversity in *Octopus vulgaris* and supports the taxonomic distinctiveness of *Octopus mimus* (Cephalopoda: Octopodidae). *Mar. Biol.* 136, 29-35.
- Suthhof, A., T.C. Jennerjahn, P. Schäfer & V. Ittekkot (2000): Nature of organic matter in surface sediments from the Pakistan continental margin and the deep Arabian Sea: amino acids. *Deep Sea Res., Part II, Trop. Studies in Oceanogr.* 47 (1-2) 329-351
- Suthhof, A., V. Ittekkot & B. Gaye-Haake (2001): Millennial-scale oscillation of denitrification intensity in the Arabian Sea during the Late Quaternary and its potential influence on atmospheric N₂O and global climate. *Global Biogeochem. Cycles* 15 (2) 637-650.
- Szlafsztein, C., R. Lara & M. Cohen (2000): Coastal Management: studies on the past and present of the Bragança region (Pará, Brazil). The MADAM project. *International J. Environmental Creation* 2 (2) 7-13.
- Thomas, H. & V. Ittekkot (2001): Determination of anthropogenic CO₂ in the North Atlantic Ocean using water mass ages and CO₂ equilibrium chemistry. *J. Mar. Systems* 27, 325-336.
- Thomas, H., M.H. England & V. Ittekkot (2001): An off-line 3D model of anthropogenic CO₂ uptake by the oceans. *Geophysical Res. Letters* 28 (3) 547-550.
- Thüllen, N. & U. Berger (2000): A comparative examination of environmental factors at patchy mangrove seedling stands at the peninsula of Bragança, Northern Brazil. *Ecotropica* 6 (1) 1-12.
- Velasco, A. & M. Wolff (2000): Ictiofauna juvenil de fondos blandos durante las transición de »secas« a lluvias en la costa Pacífica de Colombia. *Rev. Biol. Trop.* 48 (1) 213-228.
- Warnke, K., R. Söllner, D. Blohm & U. Saint-Paul (2000): Rapid differentiation between *Octopus vulgaris* Cuvier (1797) and *Octopus mimus* Gould (1852), using randomly amplified polymorphic DNA. *J. Zool. Syst. Evol. Res.* 38, 119-122.
- Wille, M., H. Behling, H. Hooghiemstra, K. van den Borg & A.J. Negret (2001): Environmental change in the Columbian subandean forest belt from 8 records: the last 50 kyr. *Vegetation History and Archaeobotany* 10, 61-77.
- Wolff, M., V. Koch & V. Isaac (2000): A Trophic Flow Model of the Caeté Mangrove Estuary (North Brazil) with Considerations for the Sustainable Use of its Resources. *Estuarine, Coastal and Shelf Science* 50 (6) 789-803.
- Wolff, M. & J. Mendo (2000): Management of the Peruvian bay scallop (*Argopecten purpuratus*) metapopulation with regard to environmental change. *Aquatic Conserv: Mar. Freshw. Ecosyst.* 10, 117-126.
- Wolff, M. (2002): Concepts and approaches for marine ecosystem research with reference to the tropics. *Revista de Biología Tropical* 50, 395-414.
- Wunsch, M., S. M. Al-Moghrabi & I. Kötter (in press): Communities of coral reef cavities in Jordan, Gulf of Aqaba (Red Sea). *Proceedings of the 9th International Coral Reef Symposium, Bali, Indonesia, 23-27 October 2000, 1*, 595-600
- Yu, E.-F., R. Francois, M.P. Bacon, S. Honjo, A.P. Fler, S.J. Manganini, M.M. Rutgers van der Loeff & V. Ittekkot (2001): Trapping efficiency of bottom-tethered sediment traps estimated from the intercepted fluxes of 230Th and 231Pa. *Deep Sea Research Part I: Oceanogr. Res.* 48 (3) 865-889.
- Zimmermann, C. & A. Kunzmann (2001): Baseline respiration and spontaneous activity of sluggish marine tropical fishes of the family Scorpaenidae. *Mar. Ecol. Progr. Ser.* 219, 229-239.

Other Publications

PUBLICATIONS

- An, N.T., B. von Bodungen, V. Ittekkot, R. E. Turner & Workshop Participants (2002): Summary and conclusions. Collection of Marine Research Works 12, Suppl. Proc. SCOPE Workshop on Land-Ocean Nutrient Fluxes: the Silica Cycle, Nha Trang, Vietnam, September 25-27. 2000, 5-10.
- Behling, H. (2000): Araukarienwälder Südbrasilien im Spätquartär. *Natur und Museum* 130 (5), 155-161.
- Behling, H. (2001): Der Amazonas-Regenwald im Wandel der Zeit. *Naturwissenschaftliche Rundschau* 54 (3) 140-144.
- Behling, H. (2001): Klimaveränderungen in den Tropen. *Naturwissenschaftliche Rundschau* 54 (5) 364-365.
- Berger, U. (2002): MADAM: the development of an integrated system for evaluating the ecological consequences of mangrove land-use. In: R. Lieberei et al. (Hrsg.), *Neotropical Ecosystems. Proceedings of the German-Brazilian Workshop Hamburg 2000* (GKSS, Geesthacht), 222.
- Cohen, M. C. L., R. J. Lara, C. F. Szlafstein, C. F. & T. Dittmar (2000): Analysis of Mangrove Inundation by GIS Techniques. In: H. de Barros et al. (Hrsg.), *Sustainable use of Estuaries and Mangroves*, 73-82 (Recife, Brazil).
- Cohen, M. C. L. & R. J. Lara (2002): Remote sensing applied to the identification of degraded mangroves (Pará, Brazil). In: R. Lieberei et al. (Hrsg.), *Neotropical Ecosystems. Proceedings of the German-Brazilian Workshop Hamburg 2000* (GKSS, Geesthacht), 120-121.
- Glaser, M. & M. Grasso (2000): Economic Valuation of a Mangrove Ecosystem: Practical Implications for Management. *Intercoast Network* 35, 27-29.
- Heiss, G. (2002): Reef Check in Europe. In: G. Hodgson & J. Liebel, *The Coral Reef Crisis. Trends and Solutions. Five Years of 'Reef Check'*. Reef Check Foundation (Los Angeles) 64.
- Hempel, G. (2000): Fischen und Forschen im Weltmeer. In: B. Busch u. L. Förster (Hrsg.), *Wasser. Schriftenreihe Forum*, Bd. 9, Elemente des Naturhaushalts I. Kunst- und Ausstellungshalle der Bundesrepublik Deutschland GmbH, 690-706 (Köln).
- Knoppers, B., W. Ekau, A. Figueiredo & A. Soares-Gomes (2002): Zona Costeira e Plataforma Continental do Brasil. In: R.C. Pereira & A. Soares-Gomes (Hrsg.), *Biologia Marinha* (Intersciência Ltda., Rio de Janeiro), 353-361.
- Krause, G. (2000): Sensibilität im Mangrovenküstenbereich gegenüber anthropogenen und natürlichen Einflussfaktoren – Beispielraum Brasilien. In: H. H. Blotvogel et al. (Hrsg.): *Lokal verankert – weltweit vernetzt*. 52. Deutscher Geographentag Hamburg 1999, 85-90 (Stuttgart).
- Krause, G. & B. Koch (2002): Tool for integration - The Mangrove Information System (MAIS). In: R. Lieberei et al. (Hrsg.), *Neotropical Ecosystems. Proceedings of the German-Brazilian Workshop Hamburg 2000* (GKSS, Geesthacht), 216-217.
- Kunzmann, A. (2001): Corals, Fishermen and Tourists. *Indonesian J. Coast. Mar. Res.* 4 (1) 17-23.
- Kunzmann, A. (2002): On the way to management of West Sumatra's coastal ecosystems. *Naga* 25 (1) 4-10.
- Lieberei, R., H. Bianchi, V. Boehm & C. Reisdorff (2002): Neotropical Ecosystems. *Proceedings of the German-Brazilian Workshop Hamburg 2000* (GKSS, Geesthacht).
- Mendo, J. & M. Wolff (2002): Bases ecológicas y socioeconómicas para el manejo de los recursos vivos de la reserva nacional de Paracas. *Universidad Nacional Agraria La Molina*, 244 p. (Lima, Peru).
- Menezes, M. P. M., U. Berger & S.V. Costa Neto (2002): Mangrove Forest: Species Diversity and Structure in the Bragança Peninsula, Northern Brazil. In: R. Lieberei et al. (Hrsg.), *Neotropical Ecosystems. Proceedings of the German-Brazilian Workshop Hamburg 2000* (GKSS, Geesthacht), 170.
- Ramos, J. F. & R. J. Lara (2002): The geographic site, topography and annual seasons as factors influencing the distribution of Ca, Mg, K and Na in sediments and their pore waters in mangroves of Bragança, PA, Brazil. In: R. Lieberei et al. (Hrsg.), *Neotropical Ecosystems. Proceedings of the German-Brazilian Workshop Hamburg 2000* (GKSS, Geesthacht), 132.
- Richter, C. (2002): Wie ernährt sich ein Korallenriff? In: G. Hempel (Hrsg.), *Der Ozean - Lebensraum und Klimasteuerung. Weltweite Meeresforschung in Bremen und Bremerhaven. Jahrbuch der Wittheit 2001/2002* (Bremen), 133-136.
- Rixen, T., M.V.S. Guptha & V. Ittekkot (2002): Sedimentation. In: Report of the Indian Ocean Synthesis Group on the Arabian

- Sea Process Study, JGOFS Report 35, 65-73.
- Saint-Paul, U. (2000): Partnerschaft – Neun Punkte auf dem Weg in die Tropen. Mitt. Dtsch. Ges. Meeresforschung 1, 11-13.
- Saint-Paul, U. (2002): Integrated approaches to tropical coastal ecosystems and management in South America. Collection of Marine Research Works 12, Suppl. Proc. SCOPE Workshop on Land-Ocean Nutrient Fluxes: the Silica Cycle, Nha Trang, Vietnam, September 25-27. 2000, 167-178.
- Saint-Paul, U. (2002): Mangroven – ein Forschungsschwerpunkt des Bremer Zentrums für Marine Tropenökologie. In: G. Hempel (Hrsg.), Der Ozean – Lebensraum und Klimasteuerung. Weltweite Meeresforschung in Bremen und Bremerhaven. Jahrbuch der Wittheit 2001/2002 (Bremen), 137-144.
- Schneider, H. & U. Saint-Paul (2002): MADAM – An Integrated Approach to Mangrove Dynamics and Management. In: R. Lieberei et al. (Hrsg.), Neotropical Ecosystems. Proceedings of the German-Brazilian Workshop Hamburg 2000 (GKSS, Geesthacht), 23-30.
- Simonian, L.T.T. & M. Glaser (2002): Extractive reserves and the question of sustainability: Recent experiences in the North of Brazil. In: R. Lieberei et al. (Hrsg.), Neotropical Ecosystems. Proceedings of the German-Brazilian Workshop Hamburg 2000 (GKSS, Geesthacht), 221.
- Unger, D., S. Schayen & B. Gaye (2001): Geochemistry of carbon and silica: water column and sediment sampling. Material, methods and first results. In: R. Stein & O. Stepanets (Hrsg.), The German-Russian Project on Siberian River Run-off (SIRRO): Scientific Cruise Report of the Kara-Sea Expedition »SIRRO 2000« of RV »Akademik Boris Petrov« and first results. Ber. Polarforsch. 393, 164-174.
- Unger, D., S. Schayen & B. Gaye (2001): Sediment trap investigations. In: R. Stein & O. Stepanets (Hrsg.), The German-Russian Project on Siberian River Run-off (SIRRO): Scientific Cruise Report of the Kara-Sea Expedition »SIRRO 2000« of RV »Akademik Boris Petrov« and first results. Ber. Polarforsch. 393, 29-33.
- Wolff, M. & J. Mendo (2002): Upwelling is the Disturbance, not El Niño: Insights from Modelling Community Organization and Flow Structure. Investigaciones Marinas 30 (1) 166-167.
- Zein, A. (2000): The influence of technological change on income and social structure in artisanal fisheries in Padang, Indonesia (Padang, Indonesia).

ZMT Contributions

- Barletta, M. (2000): Seasonal Changes of density; biomass and species composition of fishes in different habitats of the Caeté estuary (North Brazilian coast - east Amazon). ZMT-Contribution 7.
- Barletta-Bergan, A. (2000): Structure and seasonal dynamics of larval and juvenile fish in the mangrove-fringed estuary of the Rio Caeté in North Brazil. ZMT-Contribution 8.
- Diele, K. (2000): Life history and population structure of the exploited mangrove crab *Ucides cordatus cordatus* (L.) (Decapoda: Brachyura) in the Caeté estuary, North Brazil. ZMT Contribution 9.
- Jesse, Sandra (2001): Comparative ecology of sympatric brachyuran crab species in the shallow subtidal of the Pacific Coast of North Chile and their importance for the artisanal fishery in Puerto Aldea. ZMT Contribution 12.
- Khalil, Ahmad S.M. (2001): Response of Meiofauna to Mangrove Deforestation in Arid Coastal Habitats of the Red Sea (Sudan) with Emphasis on Free-living Marine Nematodes. ZMT Contribution 13.
- Koch, B.P. (2002): Organic matter pathways in a mangrove system in Northern Brazil – Chemical tracers of major sources under the influence of sedimentation and biological degradation. ZMT Contribution 15.
- Mehlig, U. (2001): Aspects of tree primary production in an equatorial mangrove forest

PUBLICATIONS

in Brazil. ZMT Contribution 14.
Salita, J.T. (2000): The influence of spatial arrangement of seagrasses on fish abundance in Bolinao, northern Philippines. ZMT Contribution 10.

Steffen, J.H. (2001): Patterns of coral reef degradation along the west coast of Sumatra, Indonesia. ZMT Contribution 11.

Co-edited by ZMT

ISATEC Handbook – a students handbook (Bremen 2001).
Jornal Folha do Manguê (Belém 2002 ff.)
Marine Glossary – a compilation of frequently used expressions (Bremen 2001).
Study Guide I. Tropical Ecology – terrestrial and limnic courses. A compilation of German Universities and Institutes (Bremen 2000).
Study Guide II. Marine Sciences – focus: marine ecology. A compilation of German Universities and Institutes (Bremen 2000).

Marine Science and Technology. Partners in the Philippines. Philippine-German Cooperation in Marine Science. PCAMRD – ZMT (Los Baños, Bremen 2002).
Marine Science and Technology. Partners in Indonesia. Indonesian-German Cooperation in Marine Science. BMBF – DKP – RISTEK (Bremen 2002).

H. Behling

- »Die Araukarienwälder Brasiliens – Ein faszinierendes Ökosystem im Wandel der Zeit«, Überseemuseum, Bremen, 24.01.2000
- »Südamerikanische Savannen in Raum und Zeit – Neue Ergebnisse aus der Paläoökologie«, Jahrestagung der Deutschen Gesellschaft für Tropenökologie, Würzburg, 01.-03.03.2000
- »South and southeast Brazilian grasslands during Late Quaternary times«, Paleograssland Research 2000, Westbrok, CT, USA, 31.05.-06.06.2000
- »Late Quaternary climatic changes in tropical South America, inferences from terrestrial and marine pollen records«, 31st International Geological Congress, IGC, Rio de Janeiro, Brasilien, 06.-17.08.2000
- »Die Araukarienwälder Südbrasilens im Wandel der Zeit«, Biogeographisches Seminar, Universität Trier, 08.01.2001
- »Spätquartäre Vegetations- und Klimaveränderungen im südlichen Brasilien«, Geologisches Seminar, Universität Tübingen, 09.01.2001
- »Tropische Ökosysteme im Wandel der Zeit - Neue paläoökologische Ergebnisse aus Nordbrasilien«, ZMT-Kolloquium, Bremen, 24.01.2001
- »Die obere Waldgrenze in tropischen Gebirgen«, Habilitationskolloquium, Universität Bremen, 29.06.2001
- »Reconstruction of the paleoenvironment«, Internationale Evaluierung des MADAM-Projektes, Bragança, Brasilien, 04.09.2001
- »Late Quaternary vegetational and climate dynamics in southern Brazil: a review«, International Symposium: Vegetation and climate changes during the last glacial/interglacial cycle along continental Chile, La Serena, Chile, 13.09.2001
- »Dinamica da vegetação e do clima do sul e sudeste do Brasil no Quaternario superior«, Seminario da Ecologia, URGs, Porto Alegre, Brasilien, 10.10.2001
- »Vegetational and climate dynamics in southern Brazil during Late Quaternary times«, ABEQUA, Rio Grande do Sul, Brasilien, 16.10.2001
- »Die Araukarienwälder Südbrasilens im Spät-quartär«, 11. Jahrestagung der Reinhold-Rüxen-Gesellschaft, Wilhelmshaven, 17.11.2001
- »Der Amazonas-Regenwald in Raum und

Zeit«, Öffentliche Antrittsvorlesung, Universität Bremen, 19.12.2001

- »Araukarienwälder Südbrasilens im Spätquartär«, Jahrestagung der Reinhold-Tüxen-Gesellschaft, Vegetationsökologie außereuropäischer Regionen, Hannover, 16.02.2002
- »Paläoökologische Studien in den tropischen Gebirgsregionen Südostbrasilens«, 15. gtö-Jahrestagung, Göttingen, 22.02.2002
- »Studies on Holocene coastal environment, mangrove and sea-level changes in Cuba«, Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«, Bremen, 26.02.2002
- »South Brazilian Paleovegetation in space and time«, 45th Symposium of the International Association for Vegetation Science (IAVS), Porto Alegre, Brasilien, 05.03.2002
- »Late Quaternary vegetation and climate dynamics in Amazonia«, First International Symposium of the Catedra von Martius and the Instituto Estudos Avançados da USP – The Paleoenvironment in Brazil, with special emphasis on Amazonia and adjacent areas – Time span 21,000 - 6,000 BP, São Paulo, Brasilien, 17.06.2002
- »Mudanças da vegetação e do clima da Amazonia durante o Quaternario«, Curso de Graduação de Mestrado em Bragança - Universidade Federal do Pará, Bragança, Brasilien, 26.09.2002
- »Untersuchungen zur Vegetations-, Klima-, und Feuergeschichte in den tropischen Gebirgen Südostbrasilens«, 12. Jahrestreffen der Reinhold-Tüxen-Gesellschaft, Arbeitskreis Vegetationsgeschichte, Greifswald, 26.10.2002

U. Berger

- »Between gap and grid-based models: how many space requires a mangrove tree?«, Gesellschaft für Ökologie, UFZ, Leipzig, 29.02.2000
- »A new approach to spatially explicit modeling: spacing, aging and neighbourhood competition of mangrove trees«, Jahrestreffen des Arbeitskreises »Theorie in der Ökologie«, Schloß Reichenow bei Potsdam, 02.03.2000
- »KiWi modelliert die Konkurrenz in Mangrovenwäldern«, Meer und Strand heute – Zur Ökologie von Flachgewässern, Meeresökologisches Symposium, Bremen, 30.03.2000
- »MADAM: The development of an integra-

- ted system for evaluating the ecological consequences of mangrove land-use«, German-Brazilian Workshop on Neotropical Ecosystems, Achievements and Prospects of Cooperative Research, Hamburg, 05.09.2000
- »Modelagem de Dinâmica de Floresta«, Planungsworkshop MADAM, Belém, Brasilien, 27.03.2001
- »Forest population dynamics Part I: analysis by means of simulation models«, Internationale Evaluierung des MADAM-Projektes, Bragança, Brasilien, 04.09.2001
- »Studies on mangrove forest dynamics by means of simulation models«, Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«, Bremen, 26.02.2002
- »Nachbarschaftsfelder zur Untersuchung ökologischer Interferenzen«, Institut für Forstgeschichte und Forstpflanzenzüchtung, Hamburg, 14.05.2002
- »Towards the sustainable use of the Gulf of Batabanó (Cuba) – systems analysis and assessment of medium-term development of a tropical ecosystem stressed by environmental changes«, Symposium of Cuban-German Collaboration, Havanna, Cuba, 18.09.2002
- »Metapopulationen: über die Nützlichkeit theoretischer Konzepte in Ökologie und Naturschutz«, Graduiertenkolleg Stadtökologie, Berlin, 08.11.2002
- »Age-related productivity decline in mangrove forests«, Workshop on New Developments in the Modelling of Plant Competition, Royal Veterinary and Agricultural University, Kopenhagen, 19.11.2002
- K. Diele**
- »Biology of the exploited mangrove crab *Ucides cordatus cordatus* (Ocypodidae) in the Caeté Estuary, North Brazil«, 5th International Crustacean Congress (ICC5), Melbourne, Australien, 12.07.2001
- »Is the north Brazilian mangrove crab *Ucides cordatus* threatened by overfishing? Putting together its life history«, EDFAM Conference (European Decapod Fisheries: Assessment and Management), La Coruña, Spanien, 09.10.2001
- S. Dittmann**
- »Diversität und ökologische Rollen in tropischen Watten – ein Vergleich«, Meer und Strand heute – Zur Ökologie von Flachgewässern, Meeresökologisches Symposium, Bremen, 29.03.2000
- »Benthic fauna in tropical tidal flats – a comparative perspective«, Meeting on Mangrove Macrobenthos, Zoological Museum »La Specola«, University of Florence & Kenya Marine & Fisheries Research Institute Mombasa, Mombasa, Kenia, 09.09.2000
- »Wanderungen im Tierreich«, Habilitationskolloquium, Universität Bremen, 15.06.2001
- »Zur Ökologie von Benthosgemeinschaften tropischer Watten«, Meereskundliches Sonderkolloquium, Öffentliche Bewerbungsvorträge für die C3-Professur Biologische Meereskunde (Zoologie), Institut für Meereskunde an der Universität Kiel, 18.06.2001
- »Benthic fauna in tropical tidal flats – a comparative perspective«, Australian Institute of Marine Science (AIMS), Townsville, 27.09.2001
- »Tropical tidal flats – a comparative perspective«, Australian Institute of Marine Science (AIMS), Townsville, 27.10.2001
- »Störungen – und dann? Zur Wiederbesiedlung mariner Sedimente«, Öffentliche Antrittsvorlesung, Universität Bremen, 07.11.2001
- »Lebensgemeinschaften der tropischen Watten und Mangrove von Nordost-Queensland, Australien«, Geographische Gesellschaft, Bremen, 05.12.2001
- »Wie einzigartig ist das Wattenmeer?«, GKSS-Tagung Forschungshorizonte der Küste, Hamburg, 14.02.2002
- »Overlooked: Tidal flats. Their ecological role in tropical ecosystems and prospects for future research«, Asia-Pacific-Conference on Marine Science & Technology: Marine Science into the new Millennium: New perspectives & Challenges«, Kuala Lumpur, Malaysia, 14.05.2002
- W. Ekau**
- »Der Canal Santa Cruz – ein Mangrovenästuar unter Druck«, Meer und Strand heute – Zur Ökologie von Flachgewässern, Meeresökologisches Symposium, Bremen, 29.03.2000
- »Mangrovenwälder - Bedrohte Ökosysteme zwischen Land und Meer« – MNU-Tagung (Mathematisch-Naturwissenschaftlicher Unterricht), Bremerhaven, 20.11.2000
- »Oxygen and fish larvae distribution in the Northern Benguela Current area«, SAMSS 2002, Southern African Marine Science

Symposium, Swakopmund, Namibia,
03.06.2002

M. Glaser

- »Os resultados da Pesquisa socio-económica do MADAM na área de Bragança«, Encontro Sociedade e Pesquisa, Bragança, Brasilien, 17.02.2001
- »O programa MADAM e sua contribuição ao manejo costeiro (The MADAM programme and its contribution to coastal management)«, Seminário Regionalizado do Gerenciamento Costeiro (Regional coastal management seminar), SECTAM, Vigia, Pará, 20.4.2001
- »Integriertes Küstenmanagement im föderalen Brasilien: Institutionelle, sektorale und legale Strukturen und die Grenzen der partizipativen Planung« (mit G. Krause), Küste, Ökologie und Mensch (KÖM): Haben sie eine Zukunft? Integriertes Küstenmanagement als Instrument nachhaltiger Entwicklung, Jahrestagung der Deutschen Gesellschaft für Humanökologie, Kühlungsborn, 12.05.2001
- »Integrated Coastal Management and the Limits of participation in federal Brasil«, Strengthening Skills and Competences for Integrated Coastal Zone Management Training, CDG Kurs, Bremen, 15.05.2001
- »Sustainability aspects of management options for the Mangrove crab *U. cordatus*«, Strengthening Skills and Competences for Integrated Coastal Zone Management Training, CDG Kurs, Bremen, 16.05.2001
- »Resource Types and Resource Management Regimes«, Strengthening Skills and Competences for Integrated Coastal Zone Management Training, CDG Kurs, Bremen, 17.05.2000
- »Spannungsfelder zwischen Wirtschafts-, Gesellschafts- und Ökosystem der Mangrovenküste vor Pará, Nordbrasilien«, Tagung Arbeitskreis Meere und Küsten, Universität Kiel, 31.05.2002

G. Heiss

- »Community based coral reef monitoring (using reef check methods)«, Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«, Bremen, 26.02.2002
- »Global Coral Reef Health: 5 years of steady decline«, European Meeting of the Inter-

national Society for Reef Studies,
Cambridge, 05.09.2002

V. Ittekkot

- »Riverine input to the Mediterranean«, EU-Workshop: Mediterranean integrated coastal area management, Nizza, Frankreich, 05.09.2000
- »Environmental problems of the Black Sea«, EU-Workshop: Mediterranean integrated coastal area management, Nizza, Frankreich, 06.09.2000
- »Monsoon-driven fluxes in the Indian Ocean«, JGOFS Symposium 2000, Biogeochemical Cycles: German contributions to the International Joint Global Ocean Flux Study, Bremen, 18.09.2000
- »Folgen menschlicher Eingriffe in tropische Lebensräume und ihre angrenzenden Meeresgebiete«, 14. Jahrestagung der Gesellschaft für Tropenökologie, Bremen, 14.02.2001
- »Research and Capacity Building in Marine Sciences«, Follow-Up Seminar for DAAD-Alumni from Indonesia and South-East Asia on Marine Science: Capacity Building and Education, Bilateral Indonesian-German Workshop on Marine Research and Development, Universitas Jenderal Soerdiman, Purwokerto, Indonesien, 27.03.2001
- »Land-sea nutrient fluxes – the Silica cycle – status of results«, SCOPE XIth General Assembly & Scientific Symposia, Bremen, 25.09.2001
- »Response of coastal seas to land-based human activities«, East China Normal University, Shanghai, P.R. China, 15.08.2001
- »Aquaculture in Asia: Status and Perspectives«, BMBF-Fachkonferenz »Maritime Innovation«, Institut für Weltwirtschaft, Kiel, 29.-30.08.2002
- »Developments in Marine Sciences: Highlights from the tropics«, National Institute of Oceanography, Goa, Indien, 05.09.2002
- »Capacity Building in Marine Sciences«, Conference »Bien Dong - 2002«, Institute of Oceanography, Nha Trang, Vietnam, 17.09.2002

T. Jennerjahn

- »Climate-induced environmental changes on the continent recorded in late Quaternary sediments from the Brazilian continental margin«, ZMT-Kolloquium, Bremen, 13.06.2001

LECTURES

- »Relevance of mangroves and rivers for the production and sedimentation of organic matter along the continental margin of eastern Brazil (8°-24°S)«, Workshop on Carbon and nutrient fluxes in marginal seas and tropical coastal zones, CMTT des IGBP, Institute of Oceanography, National University of Taiwan, Taiwan, 27.09.2001
- »Human impact on coastal ecosystems traced back to the interior of the continents«, 2001 Margins Meeting der Deutschen Geologischen Gesellschaft und Geologischen Vereinigung, Universität Kiel, 04.10.2001
- »Biogeochemistry of mangrove ecosystems related to present and past natural and anthropogenic environmental changes«, Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«, Bremen, 26.02.2002
- G. Krause**
- »Tool for Integration – the Mangrove Information System (MAIS)« (mit B. Koch), German-Brazilian Workshop on Neotropical Ecosystems, Achievements and Prospects of Cooperative Research, Hamburg, 04.09.2000
- »Integriertes Küstenmanagement im föderalen Brasilien: Institutionelle, sektorale und legale Strukturen und die Grenzen der partizipativen Planung« (mit M. Glaser), Küste, Ökologie und Mensch (KÖM): Haben sie eine Zukunft? Integriertes Küstenmanagement als Instrument nachhaltiger Entwicklung, Jahrestagung der Deutschen Gesellschaft für Humanökologie, Kühlungsborn, 12.05.2001
- »Interlinking geomorphology and socio-economic patterns in a coastal fishing village: a case study within the mangrove dynamic and mangement (MADAM) project (North Brazil)«, Institute of Ecological Economics, Royal Swedish Academy of Science, Stockholm, Schweden, 15.06.2001
- »Das Mangrovensystem von Nordbrasilien im ökologischen und anthropogenen Spannungsfeld. Beispielraum Bragança«, Institut für Natur-, Landschafts- und Umweltschutz (NLU), NLU-Kolloquium, Universität Basel, Schweiz, 24.06.200
- A. Kunzmann**
- »Es reicht! – Schlechte Zeiten für die Riffe West-Sumatras«, Meer und Strand heute – Zur Ökologie von Flachgewässern, Meeresökologisches Symposium, Bremen, 29.03.2000
- »Aquakultur in den Tropen – Hoffnung für zerstörte Riffe und Mangroven; Chancen für Bremen/Bremerhaven?«, Bremerhavener Investitions- und Stadtentwicklungsgesellschaft, Bremerhaven, 19.01.2001
- »Marine Protected Area Pulau Pieh – an example for small islands and reef management in Indonesia«, Follow-Up Seminar for DAAD-Alumni from Indonesia and South-East Asia on Marine Science: Capacity Building and Education; Bilateral Indonesian-German Workshop on Marine Research and Development, Universitas Jenderal Soerdiman, Purwokerto, Indonesien, 27.03.2001
- »Die Kontaktstelle des ZMT«, Eschborner Fachtage »Erst das Fressen und dann die Moral?«, GTZ, Eschborn, 20.06.2001
- »Möglichkeiten für marine Aquakultur am Standort Bremerhaven« (mit G. Quantz, G. Schlüter), BIS, Bremerhaven, 10.07.2002
- R. Lara**
- »Polare Umweltchemikalien im marinen Ökosystem«, Probevorlesung, Universität Bremen, 30.6.2000
- »Zur Bedeutung stabiler Isotope in meereschemischen Untersuchungen«, Habilitationsvortrag und -kolloquium, Universität Bremen, 04.07.2000
- »Zur Rolle von organischem Stickstoff im Meer«, Antrittsvorlesung, Universität Bremen, 27.11.2000
- »Synoptic analysis of the mangrove surface structure«, Planungsworkshop MADAM, Belém, Brasilien, 27.03.2001
- »Integrated analysis of biogeochemistry, surface inundation and mangrove system properties«, Internationale Evaluierung des MADAM-Projektes, Bragança, Brasilien, 04.09.2001
- »Influence of inundation frequency on present and past mangrove characteristics«, Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«, Bremen, 26.02.2002
- »Sea level rise in North Brazil - legal aspects«, International Symposium on Lowlying Coastal Areas and Integrated Coastal Management, Fischereihafen, Bremerhaven, 12.09.2002

U. Mehlig

»Phänologie und Streuproduktion eines äquatorial-brasilianischen Mangrovenwaldes«, 14. Jahrestagung der Gesellschaft für Tropenökologie, Bremen, 15.02.2001

C. Richter

»Reise ins Innere des Korallenriffs« (Vortrag mit M. Wunsch), Meer und Strand heute – Zur Ökologie von Flachgewässern, Meeresökologisches Symposium, Bremen, 29.03.2000

»Advection and Consumption of Zooplankton in a Red Sea Coral Reef«, 9th International Coral Reef Symposium, Bali, Indonesien, 25.10.2000

»Extensive mariculture in oligotrophic waters – exploiting ambient fluxes of materials«, 5th Congress on Marine Sciences - MARCUBA 2000, Havanna, Kuba, 06.12.2000

»Fostering multinational cooperation in tropical marine ecology – the Red Sea Program example«, 5th Congress on Marine Sciences - MARCUBA 2000, Havanna, Kuba, 07.12.2000

»The role of zooplankton in the exchange of nutrients between the coral reef and open gulf of Aqaba, Red Sea« (mit K. Alsokhny und M. I. Badran), Aquatic Sciences Meeting, American Society for Limnology and Oceanography, Albuquerque, New Mexico (USA), 13.02.2001

»Acoplamiento plancton-benthos en arrecifes coralinos«, DAAD Informationsreise, ECOSUR, Chetumal, Quintana Roo, Mexiko, 28.06.2001

»Cuba-German Cooperation in Marine Science«, Workshop on Environmental resource and sustainable development, Havanna, Kuba, 04.10.2001

»Carbon and nutrient cycling in coral reefs«, NEBROC II, Planungsworkshop, Hanse-Wissenschaftskolleg, Delmenhorst, 15.10.2001

»Pelagic-benthic coupling as indicator of ecosystem health in shallow tropical waters«, Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«, Bremen, 26.02.2002

»Coral reef research and capacity building at ZMT«, Hassanuddin University, Makassar, Indonesien, 08.03.2002

»Reef-based ecosystems and their potential for fisheries and aquaculture«, German-

Indonesian Meeting on Research Cooperation in Marine and Geoscience, Jakarta, Indonesien, 13.-14.03.2002

»Pelagic-benthic coupling in Red Sea coral reefs«, Sonderforschungsbereich 454 »Bodenseelitoral«, Limnologisches Institut, Konstanz, 01.07.2002

»Dynamics of energy and material fluxes on the Cuban shelf, a tropical shallow-water ecosystem affected by environmental change«, Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«, La Habana, Kuba, 09.09.2002

»Sponging up plankton in Red Sea coral reefs«, Scientific Day, Marine Science Station, Aqaba, Jordanien, 31.10.2002

»Pelagic-benthic coupling in coral reefs«, AIMS, Townsville, Australien, 02.12.2002

»Sponging up plankton in coral reefs«, UNSW, Sydney, Australien, 11.12.2002

T. Rixen

»The organic carbon pump«, Trivandrum, Indien, 26.05.2001

»Interaction between denitrification and nitrogen fixation«, Surface Ocean Lower Atmosphere Study – SOLAS Workshop, Hannover, 27.02.2001

»The Cuban-German Climate Connection«, IB, Bonn, 11.12.2002

U. Saint-Paul

»Wie nutzlos ist die Mangrove?«, Meer und Strand heute – Zur Ökologie von Flachgewässern, Meeresökologisches Symposium, Bremen, 29.03.2000

»Die ökologische Bedeutung von Überschwemmungsgebieten«, Aquarien- und Terrarienfreunde von 1980 e.V. Norderstedt, 03.04.2000

»MADAM – An integrated approach to mangrove dynamics and management« (mit H. Schneider), German-Brazilian Workshop on Neotropical Ecosystems, Achievements and Prospects of Cooperative Research, Hamburg, 03.09.2000

»Mangroven Nordbrasilens, Konflikte zwischen Schutz und Nutzung«, Jahrestagung Gesellschaft für Ökologie, Kiel, 14.09.2000

»Integrated approaches to tropical coastal ecosystems and management in South America«, International Workshop on Land-Ocean Nutrient Fluxes: the Silica Cycle by European Union, SCOPE and IOC-WEST-

- PAC, National Institute of Oceanography, Nha Trang, Vietnam, 26.09.2000
- »Mangrove als Lebensraum«, Zierfischfreunde Cap-Lopez e.V., Celle, 01.03.2001
- »MADAM – ein Beispiel der bilateralen Zusammenarbeit«, Universidade Federal do Paraná, Centro de Estudos do Mar, Curitiba, Brasilien, 14.03.2001
- »Comunidades de peixes em canais de marés«, Planning Workshop, Instituto do Milênio, Núcleo de Estudos Costeiros, Bragança, Brasilien, 27.02.2002
- »The bilateral cooperation between Germany and Vietnam on the field of marine science«, Scientific Conference on »Bien Dong 2002«, Nha Trang, Vietnam, 17.09.2002
- »The concept of integrated mangrove research as a tool for the development of management strategies«, Scientific Conference on »Bien Dong 2002«, Nha Trang, Vietnam, 18.09.2002
- »Ökologische Bedeutung von Überschwemmungsgebieten«, Aquarienverein »Stichling«, Norderstedt, 16.10.2002

D. Schories

- »Specialization and generalizations: The use of different scales to study and manage mangrove ecosystems more effectively«, German-Brazilian Workshop on Neotropical Ecosystems, Achievements and Prospects of Cooperative Research, Hamburg, 05.09.2000

A. Suthhof

- »Nitrogen cycling in the Arabian Sea and its potential influence on global climate«, Centre for Earth Science Studies, Trivandrum, Indien, 19.10.2001
- »Rekonstruktion der Monsunvariabilität im Arabischen Meer und ihrer Auswirkungen auf die Biologische Pumpe«, JGOFS Synthese Workshop, Institut für Meereskunde, Kiel, 06.12.2001
- »Biogeochemical fluxes in the Yucatán Strait in relation to the formation of frontal zones and shelf export from the Gulf of Batabanó« (mit D. Unger), Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«, Bremen, 26.02.2002

D. Unger

- »Quality of organic matter in suspended and

- sinking particles in the Bay of Bengal«, Centre for Earth Science Studies, Trivandrum, Indien, 19.10.2001
- »Biogeochemical fluxes in the Yucatán Strait in relation to the formation of frontal zones and shelf export from the Gulf of Batabanó« (mit A. Suthhof), Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«, Bremen, 26.02.2002
- »Monsun-Biogeochemie des Arabischen Meeres«, Forschungszentrum Ozeanränder, Bremen, 05.06.2002

M. Wolff

- »El Niño: Segen für die Tauchfischer Perus und Herausforderung für das Fischereimanagement«, Meer und Strand heute – Zur Ökologie von Flachgewässern, Meeresökologisches Symposium, Bremen, 29.03.2000
- »Fisheries catches as related to biotic structure and trophic flows of three tropical coastal ecosystems: a comparative analysis«, 5th Congress on Marine Sciences – MARCUBA 2000, Havanna, Kuba, 06.12.2000
- »The population dynamics of scallops – a comparative analysis«, 13th International Scallop Workshop, Universidad Católica del Norte, Coquimbo, Chile, 20.04.2001
- »Fishery catches and trophic flows: A comparative analysis of three tropical coastal ecosystems«, Follow-Up Seminar for DAAD-Alumni from Indonesia and South-East Asia on Marine Science: Capacity Building and Education; Bilateral Indonesian-German Workshop on Marine Research and Development, Universitas Jenderal Soerdiman, Purwokerto, Indonesien, 27.03.2001
- »Cooperación cubano – alemana en ciencias marinas: Líneas prioritarias de investigación«, BMBF/CITMA-Workshop »Research for Sustainable Development«, Havanna, Kuba, 03.10.2001
- »Upwelling is the Disturbance, not El Niño: Insights from Modelling Community Organization and Flow Structure«, Symposium on Impacts of El Niño and Basin Scale Climate Change on Ecosystems and Living Marine Resources - A Comparison between the California and Humboldt Current Systems, Viña del Mar, Chile, 06.08.2002
- »Laudatio Prof. Dr. Wolf Arntz«, Kolloquium anlässlich des 60igsten Geburtstages von Wolf Arntz, AWI, Bremerhaven, 10.12.2002

LECTURES

M. Wunsch

- »Reise ins Innere des Korallenriffs« (Vortrag mit C. Richter), Meer und Strand heute – Zur Ökologie von Flachgewässern, Meeresökologisches Symposium, Bremen, 29.03.2000
- »Communities of Coral Reef Cavities in Jordan, Gulf of Aqaba (Red Sea)«, International Coral Reef Symposium Bali, Indonesien, 25.10.2000

- »Ecological importance of the marine part of Alexander von Humboldt-Biosphere Reserve - A 30 min scientific film documentary«, Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«, Bremen, 26.02.2002
- »Benthos der Korallenriffhöhlen«, I. Workshop Benthos-Imaging, IPÖ, Kiel, 13.06.2002

H. Behling

- »Late Quaternary vegetational and climate dynamics in eastern Brazil, inferences from terrestrial and marine records«, 3. NEBROC-Workshop, Bremen, 25.-27.01.2000
- »Late Quaternary Climate Changes in Eastern Amazonia«, Challenges of a Changing Earth, Global Change Open Science Conference, Amsterdam, Niederlande, 10.-13.07.2001
- »Climate-driven changes of lowland and montane neotropical ecosystems since the last glacial«, 6e Nederlands Aardwetenschappelijk Congres, Veldhoven, Niederlande, 18.-19.04.2002

U. Berger

- »Biodiversität und Verteilungsmuster«, Leopoldina Symposium »Biodiversität«, Bremen, 02.-05.09.2001
- »Field of Neighbourhood – a modelling approach to investigate ecological interferences between sessile organisms«, 8th Annual German-American Frontiers of Science Symposium, Irvine, California, U.S.A., 06.-08.06.2002
- »Mangrove Dynamics and Management – MADAM. Zehn Jahre Forschung in der Mangrove - Daten für die Zukunft sichern?«, Lange Nacht der Wissenschaft, Bremen, 24.08.2002

K. Diele

- »Timing of reproduction and larval dispersion of the mangrove crab *Ucides cordatus cordatus* (Ocypodidae) in the Caeté Estuary, North Brazil«, 5th International Crustacean Congress (ICC5), Melbourne, Australien, 09.-13.07.2001

S. Dittmann

- »Infauna mariner Sedimente im Caeté-Ästuar, Brasilien«, 14. Jahrestagung der Gesellschaft für Tropenökologie, Bremen, 13.-16.02.2001

H. Hildenbrand

- »Mangrove and R-Trees under the hood«, MADAM-Evaluierung, Belém, Brasilien, 06.-07.09.2001 (H. Hildenbrandt)

V. Ittekkot

- »Deutsch-Indonesische Kooperation für Forschung und Technologie«, Lange Nacht der Wissenschaft, Bremen, 24.08.2002
- »Das Zentrum für Marine Tropenökologie - Aufbau Globaler Partnerschaften zur nachhaltigen Entwicklung tropischer Küstenzonen«, Lange Nacht der Wissenschaft, Bremen, 24.08.2002

G. Krause

- »Coastal Sedimentation Dynamics and Socio-Economic Risks«, Mangrove 2000 Conference, Recife, Brasilien
- »Coastal dynamics and socio-economic implications«, German-Brazilian Workshop on Neotropical Ecosystems, Achievements and Prospects of Cooperative Research, Hamburg, 03.-08.09.2000

T. Jennerjahn

- »Biogeochemistry of settling particles in tropical marine regions affected by river inputs«, JGOFS Symposium 2000, Biogeochemical Cycles: German contributions to the International Joint Global Ocean Flux Study, Bremen, 18.-21.09.2000

POSTER

PRESENTATIONS

POSTER PRESENTATIONS

A. Kunzmann

- »Standard oxygen consumption of tropical scorpaenid fishes«, 14. Jahrestagung der Gesellschaft für Tropenökologie, Bremen, 13.-16.02.2001
- »Contact Office Tropicoast - a national service unit with international function«, InWaterTec-Messe, GEOMAR, Kiel, 30.08.-01.09.2001

R. Lara

- »The distribution of Fe, Mn, Pb, Zn, Cd, and Cr in Mangrove Sediments of Bragança, PA, Brazil«, German-Brazilian Workshop on Neotropical Ecosystems, Achievements and Prospects of Cooperative Research, Hamburg, 03.-08.09.2000

U. Mehlig

- »Mangrove litter production and phenology in the Caeté estuary, Bragança, Pará«, German-Brazilian Workshop on Neotropical Ecosystems, Achievements and Prospects of Cooperative Research, Hamburg, 03.-08.09.2000

M.P.M. de Menezes

- »Entlaubung der Mangrovenbaumart *Avicennia germinans* durch Raupen des Nachtfalters *Hyblaea puera* im Caeté-Ästuar (Bragança, Pará, Brasilien)«, 14. Jahrestagung der Gesellschaft für Tropenökologie, Bremen, 13.-16.02.2001

D. Unger

- »Biogeochemie: Die Bausteine des Lebens und ihr Weg durch das System Erde«, Lange Nacht der Wissenschaft, Bremen, 24.08.2002

P. Westhaus-Ekau

- »Die Lebensstadien der marinen Fische«, Sonabend der Wissenschaft, 01.06.2002

PARTICIPATION IN EVENTS

H. Behling

3. NEBROC-Workshop, Bremen, 25.-27.01.2000 Jahrestagung der Deutschen Gesellschaft für Tropenökologie, Würzburg, 01.-03.03.2000 BIOME 300 Workshop, The Global Paleo-Vegetation Project, Bern, 05.-08.03.2000
- »Meer und Strand heute – Zur Ökologie von Flachgewässern«, Meeresökologisches Symposium, Bremen, 29.-30.03.2000
- Paleo-Grassland Research 2000: A Conference on the reconstruction and modelling of grass-dominated biomes, Westbrook, CT, USA, 31.05.-06.06.2000
- 31st International Geological Congress, Rio de Janeiro, Brasilien, 07.-11.08.2000
- Porto Alegre, Curitiba, Rio de Janeiro, Bélem, Bragança, Kongreß, MADAM, 17.07. - 12.08.2000
- German-Brazilian Workshop on Neotropical Ecosystems, Achievements and Prospects of Cooperative Research, Hamburg, 03.-08.09.2000
14. Jahrestagung der Gesellschaft für Tropenökologie, Bremen, 13.-16.02.2001

European Pollen Database (EPD) and Latin American Pollen Database (LAPD) Meeting, Loevenholm, Dänemark, 26.-29.04.2001

Challenges of a Changing Earth, Global Change Open Science Conference, Amsterdam, 10.-13.07.2001

International Symposium: Vegetation and climate changes during the last glacial/interglacial cycle along continental Chile, La Serena, Chile, 12.-14.09.2001

VIII. Congresso da ABEQUA, Mariluz, ImbéRS, Brazil Mudanças Globais e o Quaternário, Rio Grande do Sul, Brasilien, 14.-20.10.2001

11. Jahrestreffen der Arbeitsgemeinschaft Vegetationsökologie der Reinhold-Tüxen-Gesellschaft, Wilhelmshaven, 17.11.2001

Jahrestagung der Reinhold-Tüxen-Gesellschaft, Vegetationsökologie außereuropäischer Regionen, Hannover, 15.-17.02.2002

Jahrestagung der gtö, Universität Göttingen, 20.02.-23.02.2002

Cuban-German Workshop »Towards a sustainable management and conservation

of Cuban coastal ecosystems«, Bremen,
26.02.-01.03.2002

45th Symposium of the International Association for Vegetation Science (IAVS), Porto Alegre, Brasilien, 03.-08.03.2002

First International Symposium of the Catedra von Martius and the Instituto Estudos Avançados da USP – The Paleoenvironment in Brazil, with special emphasis on Amazonia and adjacent areas - Time span 21,000 - 6,000 BP, São Paulo, Brasilien, 17.-18.06.2002

VI ECOLAB Congress, Ecosystemas Costeiros Amazonicos, und Erprobung von Sedimentkernen, Belém, Bragança, Brasilien, 12.09.-14.10.2002

12. Jahrestreffen der Arbeitsgemeinschaft Vegetationsökologie der Reinhold-Tüxen-Gesellschaft, Greifswald, 25.-28.10.2002

U. Berger

Tagung der Gesellschaft für Ökologie, UFZ, Leipzig, 29.02.2000

Jahrestreffen des Arbeitskreises »Theorie in der Ökologie«, Schloß Reichenow bei Potsdam, 01.-03.03.2000

»Meer und Strand heute - Zur Ökologie von Flachgewässern«, Meeresökologisches Symposium, Bremen, 29.-30.03.2000

German-Brazilian Workshop on Neotropical Ecosystems, Achievements and Prospects of Cooperative Research, Hamburg, 03.-08.09.2000

2. Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«, Havanna, Kuba, 08.-13.09.2002

Workshop »Synopsis der Ökosystemforschung«, Bad Salzau, 22.-24.10.2002

Workshop on New Developments in the Modelling of Plant Competition, Royal Veterinary and Agricultural University, Kopenhagen, 18.-20.11.2002

M. Birkicht

»Meer und Strand heute - Zur Ökologie von Flachgewässern«, Meeresökologisches Symposium, Bremen, 29.-30.03.2000

G. Boehme

»Meer und Strand heute - Zur Ökologie von Flachgewässern«, Meeresökologisches Symposium, Bremen, 29.-30.03.2000

SCOPE XIth General Assembly & Scientific Symposia, Bremen, 24.-28.09.2001

K. Diele

5th International Crustacean Congress, Melbourne, Australien, 09.-13.07.2001

Conference EDFAM (European Decapod Fisheries: Assessment and Management), La Coruña, Spanien, 08.-12.10.2001

S. Dittmann

»Meer und Strand heute – Zur Ökologie von Flachgewässern«, Meeresökologisches Symposium, Bremen, 29.-30.03.2000

Meeting on Mangrove Macrobenthos, Zoological Museum »La Specola«, University of Florence & Kenya Marine & Fisheries Research Institute Mombasa, Mombasa, Kenia, 07.-11.09.2000

14. Jahrestagung der Gesellschaft für Tropenökologie, Bremen, 13.-16.02.2001

GKSS-Tagung »Forschungshorizonte der Küste«, Hamburg, 13.-15.02.2002

Asia-Pacific-Conference on Marine Science & Technology: Marine Science into the new Millennium: New Perspectives & Challenges«, Kuala Lumpur, University of Malaysia und Exkursionen in mögliche Untersuchungsgebiete Malaysia, 11.-20.05.2002

W. Ekau

Jahresempfang der Carl-Duisberg-Gesellschaft, Bremen, 21.02.2000

»Meer und Strand heute – Zur Ökologie von Flachgewässern«, Meeresökologisches Symposium, Bremen, 29.-30.03.2000

BENEFIT-Forum, Swakopmund, Namibia, 01.-08.04.2000

Symposium »Mangrove 2000«, Projekte, Rio de Janeiro, Recife, Brasilien, 18.-28.05.2000

14. Jahrestagung der Gesellschaft für Tropenökologie, Bremen, 13.-16.02.2001

BENEFIT-Forum, Swakopmund, Namibia, 02.-07.04.2001

»Meeresforschung in Bremen«, Bremen Marketing, Universität Bremen, 17.05.2001

Workshop on Ocean Resources, Services and Products, Hanse-Wissenschaftskolleg, Delmenhorst, 07.-09.09.2001

SCOPE XIth General Assembly & Scientific Symposia, Bremen, 24.-28.09.2001

Forschungshorizonte der Küstenregion, GKSS, Hamburg, 13.-14.02.2002

BENEFIT-Forum, Swakopmund, Namibia, 06.-13.04.2002

»10 Years after Rio: Steps towards Sustainable Use and Development of Coastal and Marine Areas«, International Future Search

PARTICIPATION IN EVENTS

Conference, Bremen, 10.-13.06.2002
 SAMSS-Konferenz, Swakopmund, Namibia,
 01.-05.07.2002
 23. Jahresmitgliederversammlung der DGM,
 Institut für Ostseeforschung, Warnemünde,
 08.11.2002
 Internationale Fachausstellung EuroTier,
 Hannover, 12.11.2002

K. Gärtner

Follow-Up Seminar for DAAD-Alumni from
 Indonesia and South-East Asia on Marine
 Science: Capacity Building and Education;
 Bilateral Indonesian-German Workshop on
 Marine Research and Development, Uni-
 versitas Jenderal Soerdiman, Purwokerto,
 Jakarta, Indonesien, 26.-29.03.2001
 Kurs »Eutrophication Effects in the Sea and
 Management Strategies«, Marine Research
 Center, Stockholm, 10.-21.08.2001
 SCOPE XIth General Assembly & Scientific
 Symposia, Bremen, 24.-28.09.2001

M. Glaser

German-Brazilian Workshop on Neotropical
 Ecosystems, Achievements and Prospects
 of Cooperative Research, Hamburg,
 03.-08.09.2000
 Encontro Sociedade e Pesquisa, Bragança,
 Brasilien, 27.02.2001
 Seminário Regionalizado do Gerenciamento
 Costeiro (Regional coastal management
 seminar), SECTAM, Vigia, Pará,
 20.-21.4.2001
 »Küste, Ökologie und Mensch (KÖM): Haben
 sie eine Zukunft? Integriertes Küsten-
 management als Instrument nachhaltiger
 Entwicklung«, Jahrestagung der Deutschen
 Gesellschaft für Humanökologie, Kühlungs-
 born, 10.-13.05.2001
 Tagung Arbeitskreis »Meere und Küsten«,
 31.05.2002
 »10 Years after Rio: Steps towards Sustain-
 able Use and Development of Coastal and
 Marine Areas«, International Future Search
 Conference, Bremen, 10.-13.06.2002
 International Symposium on Low-lying Coastal
 Areas - Hydrology and Integrated Coastal
 Zone Management, Fischbahnhof, Bremer-
 haven, 10.09.2002

A. Hanning

Fisheries Acoustics Training Course, Biosonics,
 Seattle, USA, 23.01.-05.02.2000
 »Meer und Strand heute – Zur Ökologie von

Flachgewässern«, Meeresökologisches
 Symposium, Bremen, 29.-30.03.2000
 14. Jahrestagung der Gesellschaft für Tro-
 penökologie, Bremen, 13.-16.02.2001

G. Heiss

International Coral Reef Initiative, Universität
 Maputo, Moçambique, 22.11.-02.12.2001
 Cuban-German Workshop »Towards a sus-
 tainable management and conservation
 of Cuban coastal ecosystems«, Bremen,
 26.02.-01.03.2002
 Action Plan Indonesien, University of Ha-
 sanuddin, Makassar, Jakarta, Indonesien,
 07.-17.03.2002
 European Meeting of the International Society
 for Reef Studies, Cambridge,
 04.-07.09.2002
 2. Cuban-German Workshop »Towards a
 sustainable management and conservation
 of Cuban coastal ecosystems«, Havanna,
 Kuba, 08.-21.09.2002

G. Hempel

Deutsche Bundesstiftung Umwelt, Auswahlver-
 fahren Stipendienprogramm, Osnabrück,
 18.01.2000
 Leopoldina Symposium, Halle, 24.01.2000
 3. NEBROC-Workshop, Bremen,
 25.-27.01.2000
 Fallturnrunde, Wissenschaftspolitik, Bremen,
 15.02.2000
 Eröffnung des Kursprogrammes, Marine
 Science Station, Aqaba, Jordanien,
 22.-28.02.2000
 DAAD-Stipendiatenauswahl, Kooperation JIG-
 MER, Jakarta, Indonesien, 10.-19.03.2000
 »Meer und Strand heute - Zur Ökologie von
 Flachgewässern«, Meeresökologisches
 Symposium, Bremen, 29.-30.03.2000

V. Ittekkot

»Meer und Strand heute - Zur Ökologie von
 Flachgewässern«, Meeresökologisches
 Symposium, Bremen, 29.-30.03.2000
 Advisory Board Otto Schmidt Laboratory, St.
 Petersburg, Rußland, 01.-03.06.2000
 EU-Workshop: Mediterranean integrated
 coastal area management, Nizza, Frank-
 reich, 05.-06.09.2000
 SCOPE Landesausschuß-Sitzung, Rundge-
 spräch »Scientific aspects on remediation
 of U-Mining and Milling Sites (RADSITE)«,
 München, 07.-08.09.2000
 JGOFS Symposium 2000, Biogeochemical

PARTICIPATION IN EVENTS

- Cycles: German contributions to the International Joint Global Ocean Flux Study, Bremen, 18.-21.09.2000
- »International Workshop on Land-Ocean Nutrient Fluxes: the Silica Cycle«, »Vietnamese-German Marine Science Workshop«, »Short Course on Biogeochemistry and Ecology of Tropical Coastal Seas«, National Institute of Oceanography, Nha Trang, Vietnam, 25.09.-02.10.2000
- Otto-Schmidt-Labor, St. Petersburg, Rußland, 11.-13.10.2000
- Sitzung der Konferenz leitender Meeresforscher Norddeutschlands – KLMN, Hamburg, 27.11.2000
14. Jahrestagung der Gesellschaft für Tropenökologie, Bremen, 13.-16.02.2001
- Marine Science Plan for Europe, Hanse-Wissenschaftskolleg, Bremen, 18.-21.02.2001
83. Sitzung der Senatskommission für Ozeanographie, Wissenschaftsforum Berlin, 04.-06.03.2001
- Follow-Up Seminar for DAAD-Alumni from Indonesia and South-East Asia on Marine Science: Capacity Building and Education; Bilateral Indonesian-German Workshop on Marine Research and Development, Universitas Jenderal Soerdiman, Purwokerto, Jakarta, Indonesien, 22.03.-04.04.2001
- Sitzung Deutsche IOC-Sektion, Berlin, 31.05.2001
- Vorbesprechung des deutsch-indonesischen Joint-Committee in der Meeresforschung/Geowissenschaften, BMBF, Bonn, 01.06.2001
- Otto-Schmidt-Labor, Sitzung des wiss. Beirates, St. Petersburg, Rußland, 06.-08.06.2001
- East China Normal University, State Oceanic Administration (SOA), Shanghai, China, 12.-20.08.2001
- Workshop on Ocean Resources, Services and Products, Hanse-Wissenschaftskolleg, Delmenhorst, 06.-09.09.2001
- SCOPE XIth General Assembly & Scientific Symposia, Bremen, 24.-28.09.2001
84. Sitzung der Senatskommission für Ozeanographie, Deutsches Meeresmuseum Stralsund, 09.-10.10.2001
- Verleihungsfeierlichkeiten Großes Bundesverdienstkreuz Prof. Elisabeth Mann Borgese, MOU Unterzeichnung, IOI, Halifax, Kanada, 14.-17.11.2001
- Global Conference on Oceans and Coasts Rio + 10, UNESCO, Paris, 02.-05.12.2001
- Seminar »Kooperation mit Indonesien in der Meeresforschung«, BMBF, Bonn, 05.-06.12.2001
- Eröffnungsfeier »Jahr der Geowissenschaften«, Berlin, 17.-18.01.2002
- Implementierung des Action Planes, Ministry of Marine Affairs and Fishery, Jakarta, Indonesien, 09.-15.02.2002
- KLMN-Sitzung, IOW, Warnemünde, 18.02.2002
- Präsentation Meeresforschung in Bremen, EU-Kommission, Brüssel, 27.-28.02.2002
- Ministry of Marine Affairs and Fisheries, Jakarta, Indonesien, 09.-16.03.2002
- Ministerium für Marine Angelegenheiten, Indonesien-Kooperation, Jakarta, Makassar, Bogor, Indonesien, 15.-21.04.2002
- International Ocean Institute, Malta, 24.-27.04.2002
- SCOPE Executive Meeting, Paris, 04.-07.05.2002
- LOICZ Synthesis and Futures Meeting, Rosenstiel School and Atmospheric Science, University of Miami, Florida, 28.05.-05.06.2002
- »10 Years after Rio: Steps towards Sustainable Use and Development of Coastal and Marine Areas«, International Future Search Conference, Bremen, 10.-13.06.2002
- Projektentwicklung Indonesien-Kooperation, Fa. Bayer AG, Wuppertal, Universität Düsseldorf, 03.07.2002
- »Initiativkreis Aquakultur«, BIS, Bremerhaven, 10.07.2002
- Besichtigung der Aquakulturanlage in Bangor, Wales, 03.-04.08.2002
- SCOPE Landesausschuss-Sitzung, Bremen, 08.08.2002
- BMBF-Fachkonferenz »Maritime Innovation«, Institut für Weltwirtschaft, Kiel, 29.-30.08.2002
- Konferenz »Bien Dong - 2002«, Institute of Oceanography, Nha Trang, Vietnam, 13.-18.09.2002
- 3rd Steering Committee, Indonesia-Germany Earth and Ocean Research, Batam und Jakarta, Indonesien, 15.-22.10.2002
- Empfang beim Bundespräsidenten, Besuch des jordanischen Königs Abdullah II und Königin Rania, Schloss Bellevue, Berlin, 22.10.2002
- Informationsreise, AIMS, Townsville, UNSW, Sydney, Australien, 30.11.-11.12.2002
- Institute of Oceanography, Hanoi, Nha Trang, Vietnam, 10.-12.12.2002
- Department of Marine Science, IOC-Westpac, Bangkok, 12.-13.12.2002

PARTICIPATION IN EVENTS

T. Jennerjahn

SCOPE Website Meeting, Paris, 01.-05.07.2000

German-Indonesian Cooperation in Marine Sciences and Geosciences – A bilateral meeting for project development at ZMT Bremen, 13.-15.11.2000

JGOFS Symposium 2000, Biogeochemical Cycles: German contributions to the International Joint Global Ocean Flux Study, Bremen, 18.-21.09.2000

SCOPE-Office, Website Meeting, Paris, 17.-20.01.2001

14. Jahrestagung der Gesellschaft für Tropenökologie, Bremen, 13.-16.02.2001

SCOPE XIth General Assembly & Scientific Symposia, Bremen, 24.-28.09.2001

Workshop on carbon and nutrient fluxes in marginal seas and tropical coastal zones, CMTT des IGBP, Institute of Oceanography, National University of Taiwan, 25.09.-01.10.2001

2001 Margins Meeting der Deutschen Geologischen Gesellschaft und Geologischen Vereinigung, Universität Kiel, 02.-06.10.2001

Leopoldina-Symposium »Klimawechsel vor dem Einfluß des Menschen«, Halle (Saale), 24.-26.10.2001

Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«, Bremen, 26.02.-01.03.2002

2. Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«, Havanna, Kuba, 08.-13.09.2002

C. Jimenéz

2. Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«, Havanna, Kuba, 08.-13.09.2002

S. Kadler

»Meer und Strand heute - Zur Ökologie von Flachgewässern«, Meeresökologisches Symposium, Bremen, 29.-30.03.2000

National Institute of Oceanography: Vietnamese-German Marine Science Workshop and Short Course on Biogeochemistry and Ecology of Tropical Coastal Seas, Nha Trang, Vietnam, 24.09.-03.10.2000

14. Jahrestagung der Gesellschaft für Tropenökologie, Bremen, 13.-16.02.2001

Internationale Fachausstellung EuroTier, Hannover, 12.11.2002

G. Krause

»Meer und Strand heute – Zur Ökologie von Flachgewässern«, Meeresökologisches Symposium, Bremen, 29.-30.03.2000
Symposium »Mangrove 2000«, Recife, Brasilien, 22.-28.05.2000

German Brazilian Workshop on Applied Research in Tropical Ecosystems, Achievements and Prospects, Hamburg, 03.-08.09.2000

German-Brazilian Workshop on Neotropical Ecosystems, Achievements and Prospects of Cooperative Research, Hamburg, 03.-08.09.2000

CDG-Kurs Integrated Coastal Management, Bremen, 10.11.2000

Welt-Ethik-Gipfel – Ethische Perspektiven für das 21. Jahrhundert: Küste, Ökologie und Mensch: Haben sie eine Zukunft? Jahrestagung der Deutschen Gesellschaft für Humanökologie, Kühlungsborn, 10.-13.05.2001

Institut für Natur-, Landschafts- und Umweltschutz (NLU), Universität Basel, Schweiz, 22.-25.06.2001

Kursteilnahme »Natural Resources and Society«, Universität Stockholm, Department of Systems Ecology, Stockholm, 02.04.-03.05.2002

International Symposium on Low-lying Coastal Areas - Hydrology and Integrated Coastal Zone Management, Fischbahnhof, Bremerhaven, 09.-12.09.2002

A. Kunzmann

Jahresempfang der Carl-Duisberg-Gesellschaft, Bremen, 21.02.2000

DAAD-Stipendiatenauswahl, Kooperation JIG-MER, Jakarta, Indonesien, 10.-19.03.2000

»Meer und Strand heute – Zur Ökologie von Flachgewässern«, Meeresökologisches Symposium, Bremen, 29.-30.03.2000

German-Indonesian Cooperation in Marine Sciences and Geosciences – A bilateral meeting for project development at ZMT, Bremen, 13.-19.11.2000

BMZ Studie »Meereskundliche Forschung und TZ«, Philippinen, Sri Lanka, Vietnam, 02.-16.12.2000

14. Jahrestagung der Gesellschaft für Tropenökologie, Bremen, 13.-16.02.2001

Gutachtersitzung des BMZ zur Zusammen-

- arbeit mit Südostasien, Bonn, Eschborn, 12.-13.02.2001
- Follow-Up Seminar for DAAD-Alumni from Indonesia and South-East Asia on Marine Science: Capacity Building and Education; Bilateral Indonesian-German Workshop on Marine Research and Development, Universitas Jenderal Soerdiman, Purwokerto, Jakarta, Indonesien, 23.-30.03.2001
- CDG-COASTMAN Kurs, Bremen, 06.-18.05.2001
- Eschborner Fachtag »Erst das Fressen und dann die Moral!«, GTZ, Eschborn, 19.-20.06.2001
- InWaterTec-Messe, GEOMAR, Kiel, 30.08.-01.09.2001
- Workshop on Ocean Resources, Services and Products, Hanse-Wissenschaftskolleg, Delmenhorst, 07.-09.09.2001
- SCOPE XIth General Assembly & Scientific Symposia, Bremen, 24.-28.09.2001
- Modulentwicklung »System Erde«, Unterrichtseinheit für Schulen, Institut für Pädagogik der Naturwissenschaften, Kiel, 05.11.2001
- Investitions- und Stadtentwicklungsgesellschaft, AWI, Institut für Lebensmittel- und Biotechnologie, Bremerhaven, 26.11.2001
- Forschungshorizonte der Küstenregion, GKSS, Hamburg, 13.-14.02.2002
- South-North-Dialogue on Innovative Strategies in International Post-Graduate Education – Challenges, Obstacles and Best Practices, Bonn, 25.-02.-01.03.2002
- International Conference on Marine Environmental Law (ICMEL), Bremen, 18.-19.04.2002
- CDG-COASTMAN Kurs, Bremen, 27.05.-07.06.2002
- »10 Years after Rio: Steps towards Sustainable Use and Development of Coastal and Marine Areas«, International Future Search Conference, Bremen, 10.-13.06.2002
- »Initiativkreis Aquakultur«, BIS, Bremerhaven, 10.07.2002
- Workshop »Sektorvorhaben«, GTZ, Eschborn, 20.-21.08.2002
- Aquakultur und Windkraft, Kreislauftechnik, AWI, Bremerhaven, 08.11.2002
6. Rahmenprogramm (FP6), EU, Brüssel, 11.-13.11.2002
- Internationale Fachausstellung EuroTier, Hannover, 14.11.2002
- Gesprächsrunde anlässlich des Besuchs Seiner Exzellenz, des Botschafters der Republik Indien in Berlin, Herr T.C.A. Rangachari, Bremen, 04.12.2002
- Meereswissenschaftliches Kolloquium anlässlich des 60igsten Geburtstages von Wolf Arntz, AWI, Bremerhaven, 10.12.2002
- R. Lara**
- Symposium »Mangrove 2000«, Recife, Brasilien, 22.-28.05.2000
- Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«, 26.02.2002
- International Symposium on Low-lying Coastal Areas – Hydrology and Integrated Coastal Zone Management, Fischbahnhof, Bremerhaven, 12.09.2002
- U. Mehlig**
- »Meer und Strand heute - Zur Ökologie von Flachgewässern«, Meeresökologisches Symposium, Bremen, 29.-30.03.2000
14. Jahrestagung der Gesellschaft für Tropenökologie, Bremen, 13.-16.02.2001
- S. Meyerholz**
- »Meer und Strand heute - Zur Ökologie von Flachgewässern«, Meeresökologisches Symposium, Bremen, 29.-30.03.2000
14. Jahrestagung der Gesellschaft für Tropenökologie, Bremen, 13.-16.02.2001
- SCOPE XIth General Assembly & Scientific Symposia, Bremen, 24.-28.09.2001
- I. Opitz**
- »Meer und Strand heute - Zur Ökologie von Flachgewässern«, Meeresökologisches Symposium, Bremen, 29.-30.03.2000
- Tagung der Firma Exact-Software, Potsdam, 21.-23.11.2002
- C. Orejas Saco del Valle**
- Workshop on Environmental resource and sustainable development, Havanna, Kuba, 01.-11.10.2001
- Instituto de Oceanología und Centro de Investigaciones Marinas, Workshop-Vorbereitung, Havanna, Kuba, 19.-31.01.2002
- Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«, Bremen, 26.02.-01.03.2002
- CDG-COASTMAN Kurs, Bremen, 27.05.-07.06.2002
2. Cuban-German Workshop »Towards a sustainable management and conservation

PARTICIPATION IN EVENTS

of Cuban coastal ecosystems«, Havanna, Kuba, 09.-13.09.2002

Meereswissenschaftliches Kolloquium anlässlich des 60igsten Geburtstages von Wolf Arntz, AWI, Bremerhaven, 10.12.2002

Vorstellung des Forschungsprogrammes zur deutsch-kubanischen Zusammenarbeit in der Meeresforschung, IB/BMBF, Bonn, 11.12.2002

D. Peterke

»Meer und Strand heute – Zur Ökologie von Flachgewässern«, Meeresökologisches Symposium, Bremen, 29.-30.03.2000

HPLC von Aminosäuren, Peptiden und Proteinen, Intensivseminar bei der Firma NOVIA GmbH (Seminare, Schulungen, Workshops für Analytiker), Saarbrücken, 23.-24.11.2000

Fachtagung Ionenchromatographie, Alexander-von-Humboldt Universität, Berlin, 20.-23.02.2001

Fachtagung Fa. Dionex, Universität Münster, 14.-15.10.2002

Fachmesse für Materialprüfung, Messtechnik und Qualitätsmanagement, Dortmund, 12.11.2002

C. Richter

NEBROC-Workshop, Bremen, 25.-27.01.2000

»Meer und Strand heute - Zur Ökologie von Flachgewässern«, Meeresökologisches Symposium, Bremen, 29.-30.03.2000

9th International Coral Reef Symposium Bali, Indonesien, 23.-27.10.2000

German-Indonesian Cooperation in Marine Sciences and Geosciences - A bilateral meeting for project development at ZMT Bremen, 15.11.2000

5th Congress on Marine Sciences - MARCUBA 2000, Informationsreise Kooperation Korallenrifforschung, Havanna, Kuba, 29.11.-13.12.2000

Aquatic Sciences Meeting, American Society for Limnology and Oceanography (ASLO), Albuquerque, New Mexico (USA), und Los Angeles, USA, 11.-25.02.2001

Workshop on Ocean Resources, Services and Products, Hanse-Wissenschaftskolleg, Delmenhorst, 06.-09.09.2001

SCOPE XIth General Assembly & Scientific Symposia, Bremen, 24.-28.09.2001

Workshop on Environmental resource and

sustainable development, Havanna, Kuba, 01.-11.10.2001

NEBROC II, Planungsworkshop, Hanse-Wissenschaftskolleg, Delmenhorst, 15.-16.10.2001

Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«, Bremen, 26.02.-01.03.2002

Action Plan Indonesien, University of Hasanuddin, Makassar, Jakarta, Indonesien, 06.-17.03.2002

2. Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«, Havanna, Kuba, 08.-13.09.2002

Internationale Konferenz »Simposio Arrecifes Coralinos Unidos por la Conservación«, Cayo Coco, Kuba, 16.-20.09.2002

Präsentation Wittheits-Jahrbuch »Der Ozean – Lebensraum und Klimasteuerung«, Rathaus, Bremen, 22.10.2002

T. Rixen

Surface Ocean Lower Atmosphere Study – SOLAS Workshop, Hannover, 27.02.2001

SCOPE XIth General Assembly & Scientific Symposia, Bremen, 24.-28.09.2001

2002 Ocean Science Meeting, Hawaii, 09.-17.02.2002

Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«, Bremen, 26.02.-01.03.2002

2. Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«, Havanna, Kuba, 08.-20.09.2002

U. Saint-Paul

Jahresempfang der Carl-Duisberg-Gesellschaft, Bremen, 21.02.2000

13. Jahrestagung der Deutschen Gesellschaft für Tropenökologie, Würzburg, 01.-03.03.2000

»Meer und Strand heute – Zur Ökologie von Flachgewässern«, Meeresökologisches Symposium, Bremen, 29.-30.03.2000

Symposium »Mangrove 2000«, MADAM-Projekt, Koordination, Rio de Janeiro, Recife, Belém, Brasilien, 21.05.-01.06.2000

German-Brazilian Workshop on Neotropical Ecosystems, Achievements and Prospects of Cooperative Research, Hamburg, 03.-08.09.2000

- »International Workshop on Land-Ocean Nutrient Fluxes: the Silica Cycle«, »Vietnamese-German Marine Science Workshop«, »Short Course on Biogeochemistry and Ecology of Tropical Coastal Seas«, National Institute of Oceanography, Nha Trang, Vietnam, 25.09.-02.10.2000
- Jahrestagung Gesellschaft für Ökologie, Kiel, 14.09.2000
21. Mitgliederversammlung der Deutschen Gesellschaft für Meeresforschung (DGM), Max-Planck-Institut für Marine Mikrobiologie, Bremen, 06.10.2000
- German-Indonesian Cooperation in Marine Sciences and Geosciences – A bilateral meeting for project development at ZMT Bremen, 13.-15.11.2000
- Symposium »Integrative Modellierung des Globalen Wandels«, Bad Honnef, 05.01.2001
- Nationales Kolloquium des Nationalen Komitees für Global Change Forschung, Bad Honnef, 26.-27.01.2001
14. Jahrestagung der Gesellschaft für Tropenökologie incl. Vorstandssitzung und Mitgliederversammlung, Bremen, 13.-16.02.2001
- DGM-Vorstandssitzung, Hamburg, 23.02.2001
- PACON 2001 (Environmental Technologies for Sustainable Maritime Development), San Francisco, USA, 06.-15.06.2001
- Kickoff-Meeting, DEKLIMC, Berlin, 18.-19.06.2001
- DGM Vorstandssitzung, Hamburg, 29.07.2001
- SCOPE XIth General Assembly & Scientific Symposia, Bremen, 24.-28.09.2001
- BEAF-Beiratssitzung, Bonn, 01.-02.10.2001
- DGM Jahresversammlung und Vorstandssitzung, Hamburg, 12.10.2001
- gtö-Präsidiumssitzung, Würzburg, 22.10.2001
- Gutachtersitzung »Mata Atlantica«, BMBF, Bonn, 08.11.2001
- Sitzung der Deutschen Wissenschaftlichen Kommission, Hamburg, 14.11.2001
- DFG-Delegationsreise zur Planung von Kooperationsvorhaben mit Instituten in Hanoi, Hai Phong, Nha Trang, Ho Chi Minh Stadt, Vietnam, 16.-26.11.2001
- gtö-Präsidiumssitzung, Museum König, Bonn, 09.01.200
15. Jahrestagung der gtö, Universität Göttingen, 20.-23.02.2002
- Sitzung des Fachbeirates »Internationale Agrarforschung«, BEAF, Bonn, 11.04.2002
- Symposium »Aktuelle Probleme der Meeresumwelt 2002«, BSH, Hamburg, 05.-06.06.2002
- BIOLOG Gutachtersitzung, BMBF, Bonn, 10.-11.06.2002
- gtö-Präsidiumssitzung, Fabriksschleichach, 14.-16.06.2002
- DWK Sitzung, Institut für Meereskunde, Kiel, 17.06.2002
- Konferenz »Bien Dong - 2002«, Institute of Oceanography, Nha Trang, Vietnam National University, Ho Chi Minh City, Vietnam, 08.-21.09.2002
- Sitzung des Fachbereichs »Internationale Agrarforschung«, BEAF, Bonn, 25.09.2002
- Präsentation Wittheits-Jahrbuch »Der Ozean – Lebensraum und Klimasteuerung«, Rathaus, Bremen, 22.10.2002
- Zentrum für Entwicklungsforschung (ZEF), Bonn, 23.-24.10.2002
- C. Schnack**
- »Meer und Strand heute – Zur Ökologie von Flachgewässern«, Meeresökologisches Symposium, Bremen, 29.-30.03.2000
- National Institute of Oceanography: Vietnamese-German Marine Science Workshop and Short Course on Biogeochemistry and Ecology of Tropical Coastal Seas, Nha Trang, Vietnam, 24.09.-03.10.2000
14. gtö-Mitgliederversammlung, Bremen, 14.02.2001
- SCOPE-Exkursionsvorbereitung, Wilhelmshaven, Carolinensiel, 20.03.2001
- PR-Arbeitskreistreffen, AWI, Bremerhaven, 15.08.2001
23. Sitzung Arbeitsgemeinschaft meereskundlicher Bibliotheken (AMB), FS »Meteor«, Rostock, 10.09.2001
- SCOPE XIth General Assembly & Scientific Symposia, Bremen, 24.-28.09.2001
24. Sitzung der Arbeitsgemeinschaft meereskundlicher Bibliotheken, Bundesforschungsanstalt für Fischerei, Hamburg, 04.03.2002
25. Sitzung der Arbeitsgemeinschaft meereskundlicher Bibliotheken, Bundesforschungsanstalt für Fischerei, Hamburg, 14.10.2002
- Redaktion SCOPE Proceedings, Institute of Oceanography, Nha Trang, Vietnam, 14.-27.11.2002
- D. Schories**
- Sustainable use of estuaries and mangroves: Challenges and prospects, Recife, Brasilien, 22.-28.05.2000

PARTICIPATION IN EVENTS

VI Encontro nacional de educação ambiental em áreas de manguezal, Paraniba, Brasilien, 03.-08.09.2000

German-Brazilian Workshop on Neotropical Ecosystems, Achievements and Prospects of Cooperative Research, Hamburg, 03.-08.09.2000

GfÖ-Tagung - Ökosystemforschung und Ökosystem-Management, Kiel, 11.-15.09.2000

C. Stefes

»Meer und Strand heute – Zur Ökologie von Flachgewässern«, Meeresökologisches Symposium, Bremen, 29.-30.03.2000

Tagung der Firma Exact-Software, Potsdam, 21.-23.11.2002

A. Suthhof

Follow-Up Seminar for DAAD-Alumni from Indonesia and South-East Asia on Marine Science: Capacity Building and Education; Bilateral Indonesian-German Workshop on Marine Research and Development, Universitas Jenderal Soerdiman, Purwokerto, Jakarta, Indonesien, 26.-29.03.2001

SCOPE XIth General Assembly & Scientific Symposia, Bremen, 24.-28.09.2001

Workshop SFB 261, Bremen, 29.-30.12.2001

Max-Planck-Institut für Meteorologie, Institut für Biochemie und Meereschemie, Hamburg, JGOFS-Indik IV, 07.-10.02.2002

Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«, Bremen, 26.02.-01.03.2002

D. Unger

SCOPE XIth General Assembly & Scientific Symposia, Bremen, 24.-28.09.2001

Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«, Bremen, 26.02.-01.03.2002

Forschungszentrum »Ozeanränder«, Vorstellung des Projektbereiches »Biogeochemical Processes«, Bremen, 05.06.2002

P. Westhaus-Ekau

»Meer und Strand heute – Zur Ökologie von Flachgewässern«, Meeresökologisches Symposium, Bremen, 29.-30.03.2000

14. Jahrestagung der Gesellschaft für Tropenökologie, Bremen, 13.-16.02.2001

Follow-Up Seminar for DAAD-Alumni from Indonesia and South-East Asia on Marine

Science: Capacity Building and Education; Bilateral Indonesian-German Workshop on Marine Research and Development, Universitas Jenderal Soerdiman, Purwokerto, Jakarta, Indonesien, 26.-29.03.2001

Workshop on Ocean Resources, Services and Products, Hanse-Wissenschaftskolleg, Delmenhorst, 06.-09.09.2001

SCOPE XIth General Assembly & Scientific Symposia, Bremen, 24.-28.09.2001

M. Wolff

»Meer und Strand heute – Zur Ökologie von Flachgewässern«, Meeresökologisches Symposium, Bremen, 29.-30.03.2000

German-Indonesian Cooperation in Marine Sciences and Geosciences – A bilateral meeting for project development at ZMT Bremen, 13.-15.11.2000

5th Congress on Marine Sciences - MARCUBA 2000, Anbahnung von Kooperationen mit kubanischen Instituten, Havanna, Kuba, 29.11.-13.12.2000

14. Jahrestagung der Gesellschaft für Tropenökologie, Bremen, 13.-16.02.2001

Follow-Up Seminar for DAAD-Alumni from Indonesia and South-East Asia on Marine Science: Capacity Building and Education; Bilateral Indonesian-German Workshop on Marine Research and Development, Universitas Jenderal Soerdiman, Purwokerto, Jakarta, Indonesien, 26.-29.03.2001

13th International Scallop Workshop, Universidad Católica del Norte, Coquimbo, Chile, 17.-26.04.2001

Workshop on Ocean Resources, Services and Products, Hanse-Wissenschaftskolleg, Delmenhorst, 06.-09.09.2001

Workshop on Environmental resources and sustainable development, Havanna, Kuba, 01.-08.10.2001

AGEP-Tagung, Universität Göttingen, 09.11.2001

Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«, Bremen, 26.02.-01.03.2002

»10 Years after Rio: Steps towards Sustainable Use and Development of Coastal and Marine Areas«, International Future Search Conference, Bremen, 10.-13.06.2002

Symposium on Impacts of El Niño and Basin Scale Climate Change on Ecosystems and Living Marine Resources - A Comparison between the California and Humboldt

PARTICIPATION IN EVENTS

Current Systems, Viña del Mar, Chile, 05.-10.08.2002

Eröffnung GIACT-Studiengang, ALFA-Projekt, San José, Costa Rica, 11.-17.08.2002

2. Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«, Havana, Kuba, 31.08.-21.09.2002

Germany-Mexico Workshop in Marine Sciences - 2nd Planning Meeting, CIBMOR, La Paz, School of Field Studies (SFS), San Carlos, Mexiko, 11.-21.11.2002

Meereswissenschaftliches Kolloquium anlässlich des 60igsten Geburtstages von Wolf Arntz, AWI, Bremerhaven, 10.12.2002

M. Wunsch

»Meer und Strand heute - Zur Ökologie von Flachgewässern«, Meeresökologisches

Symposium, Bremen, 29.-30.03.2000

Blockkurs für Mikroskopie und Bildaufnahmetechnik, Göttingen, 11.-15.09.2000

9th International Coral Reef Symposium Bali, Indonesien, 23.-27.10.2000

German-Indonesian Cooperation in Marine Sciences and Geosciences - A bilateral meeting for project development at ZMT Bremen, 15.11.2000

SCOPE XIth General Assembly & Scientific Symposia, Bremen, 24.-28.09.2001

Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«, Bremen, 26.02.2002

I. Workshop Benthos-Imaging, IPÖ, Kiel, 13.06.2002

World Congress of Science Producers (WCSP), Berlin, 23.-26.10.2002

H. Behling

Probennahme Brantas Fluß, Ästuar, Stauseen, Surabaya, Indonesien, 07.-19.05.2001

U. Berger

MADAM-Projekt, Brasilien, Belém, 09.2000-07.2001

MADAM, Projektstätigkeit, Belém, Bragança, Brasilien, 25.06.-07.12.2001

M. Birkicht

Forschungsfahrt mit »Baruna Jaya IV«, Sundastraße, SE-Sumatra, SW-Jawa, Jakarta, Merak, Cilacap, Indonesien, 12.10.-09.11.2000

FK »Uthörn«, Exkursion des ISATEC-Kurses, 08.04.2001

Brau & Lübbe, Geräte-Vorführung, Norderstedt, 09.07.2002

D. Dasbach

Fluß- und Ästuarbeprobung, Institute of Oceanography, Nha Trang, Vietnam, 05.-19.12.2002

K. Diele

MADAM, Projektstätigkeit, Bragança, Brasilien, 02.-06.2001

MADAM, Projektstätigkeit, Bragança, Brasilien, 09.-12.2001

S. Dittmann

Felduntersuchungen, Recherche zur Projektoperation, Betreuung von Studenten, Belém, Bragança, Brasilien, 21.09.-22.10.2000

Projektgespräche, Probennahme, Wattenmeerstation des AWI, List auf Sylt, 23.-25.04.2001

W. Ekau

Departamento de Oceanografia, Feldarbeiten, Recife, Brasilien, 30.07.-13.08.2001

Expedition FRS »Africana«, BENEFIT, Benguela-Front, 19.02.-07.03.2002

M. Glaser

MADAM-Projekt, Belém, Bragança, Brasilien, Langzeitaufenthalt, 11.1999-05.2000

MADAM-Projekt, Belém, Bragança, Brasilien, Langzeitaufenthalt, Aufenthalte am ZMT in Bremen, 05.-16.05.2001; 17.06.-16.07.2001

MADAM, Projektstätigkeit, Lehrveranstaltung, Belém, Bragança, Brasilien, 12.11.-05.12.2002

A. Hanning

Technische Betreuung, Belém, Brasilien, 23.03.-29.06.2000 und 15.09.-15.12.2000

MADAM, Projektstätigkeit, Brasilien, Belém, 14.03.-04.08.2001

RESEARCH STAYS / EXPEDITIONS

RESEARCH STAYS / EXPEDITIONS

MADAM, Projektstätigkeit, Brasilien, Belém,
10.09.-21.11.2001

MADAM, Projektstätigkeit, Belém, Bragança,
Brasilien, 15.03.-25.06.2002

MADAM, Projektstätigkeit, Belém, Bragança
Brasilien, 01.-30.10.2002

G. Heiss

Forschungsfahrt »Biogeochemical Fluxes«,
Universitas Hasanuddin, Jakarta,
Indonesien, 04.-18.12.2001

T. Jennerjahn

Forschungsfahrt mit »Baruna Jaya IV«, Sunda-
straße, SE-Sumatra, SW-Jawa, Jakarta,
Merak, Cilacap, Indonesien, 12.10.-
09.11.2000

Probennahme Brantas Fluß, Ästuar, Stauseen,
Surabaya, Indonesien, 07.-19.05.2001

Deutsch-indonesische Expedition, Brantas
Ästuar, Indonesien, 18.-30.06.2002

Forschungsfahrt mit »Baruna Jaya IV«,
Madurastrasse, Indonesien, 25.11.-
05.12.2002

Fluß- und Ästuarbeprobung, Institute of
Oceanography, Nha Trang, Vietnam, 05.-
20.12.2002

S. Kadler

Marine Science Station, Eilat, IUI, Suez, NIOF,
Junior Course und Projektstätigkeit, RSP,
Aqaba, Jordanien, 22.02.-20.03.2000

National Institute of Oceanography, Goa,
Expedition mit RV »Sagar Kanya«, Golf
von Bengalen und Besuch des Centre for
Earth Science Studies, Trivandrum, Indien,
05.-22.10.2001

Jenderal Soedirman University (UNSOED),
Faculty of Biology, Purwokerto, Indonesien,
11.-30.09.2002

G. Krause

MADAM, Projektstätigkeit, Belém, Bragança,
Brasilien, 20.05.-25.08.2000

Forschungs- und Technologiezentrum Bü-
sum, Aufbereitung von Sedimentproben,
30.01.2001

MADAM-Projekt, Planungsworkshop, Salinas,
Feldarbeiten, Bragança, 18.02.-14.04.2001

Deutsche Luft- und Raumfahrt, Luftbildauswer-
tung und Validierung, Köln, 07.08.06.2001

R. Lara

MADAM, Projektstätigkeit, Belém, Brasilien,
Langzeitaufenthalt bis 01.10.2001

MADAM-Projekt, Koordination, Doktoran-
denbetreuung, Belém, Bragança, São Paulo,
Brasilien, 15.09.-08.10.2002

U. Mehlig

MADAM, Projektstätigkeit, Bragança, Brasilien,
Langzeitaufenthalt

O. Morisse

Expedition mit RV »Baruna Jaya I«, östlicher
Indischer Ozean, Indonesien,
24.11.-04.12.2001

Forschungsfahrt mit »Baruna Jaya IV«,
Madurastrasse, Indonesien,
17.11.-06.12.2002

D. Peterke

MADAM, Projektstätigkeit, Belém, Brasilien,
15.09.-28.10.2001

H. Pohl

MADAM, Projektstätigkeit, Belém, Brasilien,
Langzeitaufenthalt

C. Richter

Junior Course und RSP Projektstätigkeit, MSS,
Aqaba, Jordanien, IUI, Eilat, Israel, NIOF,
Suez, Ägypten, 22.02.-26.03.2000

RSP, Projektstätigkeit, Workshop Riffökologie,
Kurs Bestimmungsübungen, MSS, Aqaba,
Jordanien, 22.-30.05.2000

University of Jordan, Aqaba, Marine Science
Station, Amman, Jordanien, 01.-06.08.2001

DFG-Verbundprojekt »Primärproduktion und
Mineralisierung in Korallenriffen«, MSS,
Aqaba, Jordanien, 01.-11.04.2002

Koordination und Feldarbeiten zur Ökologie
und Nutzung von Korallenrifforganismen,
MSS Aqaba, Jordanien, 10.-25.08.2002
Aquakultur-Projekt, Scientific Day, MSS Aqaba,
Amman, Jordanien, 26.10.-01.11.2002

T. Rixen

Expedition »Biogeochemical Fluxes« mit RV
»Sagar Kanya«, NIO, Goa, Indien,
05.-28.05.2001

Biogeochemical Fluxes, Expedition mit RV
»Baruna Jaya I«, BPPT, Jakarta, Indonesien,
21.11.-18.12.2001

U. Saint-Paul

MADAM-Projekt, Koordination, Lehre,
Brasília, Belém, Bragança, Brasilien, 16.11.-
03.12.2000

MADAM-Projekt, Koordination, Planungswork-

shop, Belém, Bragança, Salinas, Brasilien,
12.03.-02.04.2001

MADAM-Projekt, Koordination, Belém,
Bragança, Brasilien, 04.-16.06.2001

MADAM-Projekt, Koordination, Begutachtung
der 3. Projektphase, Belém, Bragança, Brasi-
lien, 26.08.-21.09.2001

MADAM-Projekt, Koordination, Vorberei-
tung des Planning Workshop, Instituto do
Milênio, Belém und Bragança, Brasilien,
13.-26.01.2002

MADAM-Projekt, Koordination, Planning
Workshop, Instituto do Milênio, Belém und
Bragança, Brasilien, 23.02.-03.03.2002

MADAM-Projekt, Koordination, Vorbereitung
der 3. Phase, Belém, Bragança, Recife, Brasi-
lien, 03.-15.08.2002

SHIFT-Begutachtung, MADAM-Projekt, Koor-
dination, Kooperation mit UFPe, Curitiba,
Brasília, Belém, Bragança, Brasilien,
05.-23.11.2002

A. Suthoff

National Institute of Oceanography, Goa,
Expedition mit RV »Sagar Kanya«, Golf von
Bengalen und Besuch des Centre for Earth
Science Studies, Trivandrum, Indien,
05.-22.10.2001

D. Unger

National Institute of Oceanography, Goa,
Expedition mit RV »Sagar Kanya«, Golf von
Bengalen und Besuch des Centre for Earth
Science Studies, Trivandrum, Indien,
05.-22.10.2001

P. Westhaus-Ekau

Jenderal Soedirman University (UNSOED),
Faculty of Biology, Purwokerto, Indonesien,
11.-25.09.2002

M. Wunsch

RSP, Junior Course und Projektstätigkeit, MSS,
Aqaba, Jordanien, IUI, Eilat, Israel, NIOF,
Suez, Ägypten, 22.02.-26.03.2000

RSP, Projektstätigkeit, MSS, Aqaba, Jordanien,
16.04.-15.05.2000

Probennahme Brantas Fluß, Ästuar, Stau-
seen, Surabaya, Jakarta, Indonesien, 07.-
19.05.2001

Feldforschung, MSS, Aqaba, Jordanien, 25.08.-
22.09.2001

Aquakulturprojekt, Kinderfilmprojekt, MSS
Aqaba, Jordanien, 10.-16.08.2002

Kinderfilmprojekt, Garage-One, München,
01.-04.11.2002

PROJECT MEETINGS

H. Behling

MADAM, Begutachtung der 3. Projektphase, Belém, Bragança, Brasilien, 02.-05.09.2001

U. Berger

MADAM, Planungsworkshop, Salinas, Brasilien, 28.-30.03.2001

MADAM, Begutachtung der 3. Projektphase, Belém, Bragança, Brasilien, 02.-05.09.2001

Deutsche Luft- und Raumfahrt, Abt. Umweltinformatik, Planung MADAM III, Köln, 31.01.-01.02.2002

Institut für Forstgeschichte und Forstpflanzenzüchtung, Hamburg, 14.05.2002

M. Birkicht

German-Indonesian Cooperation in Marine Sciences and Geosciences – A bilateral meeting for project development at ZMT Bremen, 13.-19.11.2000

Ausleihe Fluorimeter, Institut für Polarökologie, Kiel, 12.09.2002

Institut für Biogeochemie und Meereschemie, Universität Hamburg, Vorbereitung Indonesien-Expedition, 16.09.2002

S. Dittmann

German-Indonesian Cooperation in Marine Sciences and Geosciences - A bilateral meeting for project development at ZMT Bremen, 15.11.2000

SCOPE-Exkursionsvorbereitung, Wilhelmshaven, Carolinensiel, 20.03.2001

Kooperationsvorbereitung, University of Queensland, Zoology Department, Brisbane, Australian Institute of Marine Science (AIMS), Townsville, Australien, 09.09.-12.10.2001

Informationsreise, AIMS, Townsville, UNSW, Sydney, Australien, 29.11.-13.12.2002

W. Ekau

Vorbereitung des Action Plan, Jakarta, Purwokerto, Cilacap, Indonesien, Besuch des ICLARM, Malaysia, 31.10.-12.11.2000

German-Indonesian Cooperation in Marine Sciences and Geosciences – A bilateral meeting for project development at ZMT Bremen, 13.-15.11.2000

»Meteor« 48, Nachbesprechung der Expedition Südostatlantik, Institut für Ostseeforschung, Warnemünde, 18.12.2000

CDG, Vorberechung Rio+10 Konferenz, Bremen, 27.03.2001

Vorbereitung bilaterale Kommission

Deutschland Südafrika, BMBF, Bonn, 11.06.2001

Expedition FRS »Africana«, BENEFIT, Benguela-Front, 19.02.-07.03.2002

Präsentation des ZMT gegenüber UNEP, 19.03.2002

CDG, Vorberechung Rio+10 Konferenz, Bremen, 22.03.2002

Informationsgespräch mit dem peruanischen Botschafter in der BFA Fischerei in Hamburg, 06.08.2002

Jenderal Soedirman University (UNSOED), Faculty of Biology, Purwokerto, Indonesien, 17.-30.09.2002

Gesprächsrunde anlässlich des Besuchs Seiner Exzellenz, des Botschafters der Republik Indien in Berlin, Herr T.C.A. Rangachari, Bremen, 04.12.2002

K. Gärtner

German-Indonesian Cooperation in Marine Sciences and Geosciences – A bilateral meeting for project development at ZMT Bremen, 13.-19. November 2000

Vorberechung des deutsch-indonesischen Joint-Committee in der Meeresforschung/Geowissenschaften, BMBF, Bonn, 01.06.2001

M. Glaser

MADAM, Planungsworkshop, Salinas, Brasilien, 28.-30.03.2001

A. Hanning

Planungsgespräch Expedition, Alfred-Wegener-Institut für Polar- und Meeresforschung, Bremerhaven, 20.02.2001

G. Heiss

ECOMARES, Aquakulturanlage Indonesien, Büsum, 08.02.2002

V. Ittekkot

Begleitung BMBF-Delegation, WTZ-Kooperation, Jakarta, Bogor, Bandung, Indonesien, 05.-19.05.2000

Informationsreise zum RSP-Projekt, Eilat, Israel, und Marine Science Station, Aqaba, Jordanien, 27.-30.05.2000

MADAM-Projekt, Informationsreise, Belém, Bragança, Brasilien, 26.06.-02.07.2000

BRANTAS-Projekt, Jakarta, Indonesien, 08.-18.08.2000

German-Indonesian Cooperation in Marine Sciences and Geosciences – A bilateral

meeting for project development at ZMT
Bremen, 13.-19.11.2000

Action Plan Meeting »Indonesien«, BMBF,
Bonn, 08.03.2001

Planungstreffen, DFG-Forschungszentrum
»Ozeanränder« der Universität Bremen,
DFG, Bonn, 17.-18.04.2001

Kooperation Indonesien, DAAD, Bonn,
07.05.2001

Informationsaustausch mit
Prof. Wirakartakusumah von der Univer-
sität von Bogor, Indonesien, Amsterdam,
10.06.2001

Weiterentwicklung Action Plan, Jakarta, Bogor,
Makassar, Indonesien, 11.-19.06.2001

Internationale Einbindung der Projektförde-
rung des BMBF in der Meeres-, Polar- und
Geo-Forschung, BMBF, Bonn, 18.07.2001

University of Jordan, Aqaba, Marine Science
Station, Amman, Jordanien, 01.-06.08.2001

Vorbesprechung Reise des Staatssekretärs Dr.
Uwe Thomas nach Indien und Indonesien,
Ref. 125, BMBF, Bonn, 03.09.2001

Action Plan Indonesien, Weiterentwicklung,
Jakarta, Denpasar/Bali, Indonesien,
09.-14.09.2001

Begleitung des Staatssekretärs Dr. Ing. Uwe
Thomas, Neu Delhi, Indien, Bali, Jakarta,
Yogyakarta, Indonesien, 26.10.-06.11.2001

ECOMARES GmbH, Planung Aquakultur-
kooperation mit Indonesien, Büsum,
08.02.2002

Entwicklung Aquakultur, Kieler Wirtschaftsmini-
sterium, Kiel, 08.02.2002

Fortentwicklung der Indonesien-Kooperation,
BMBF, Referat für Meeresforschung, Bonn,
11.04.2002

Aquaculture Project Jordanien, IfM Kiel,
03.05.2002

Indonesien-Kooperation, BMBF, Bonn,
20.08.2002

Vorbereitung der Delegationsreise nach Indo-
nesien, BMBF, Bonn, 27.08.2002

Kooperation »Biogeochemical Fluxes«, Goa,
Indien, 02.-06.09.2002

Planungsgespräche Australien/Neuseeland-
Mission, IB des BMBF, Bonn-Oberkassel,
23.10.2002

Planung der Koordination der Meeres- und
Polarforschung Deutschlands, Berlin,
29.11.2002

Vorbereitung internationaler Workshop,
Institute of Oceanography, Goa, Indien,
27.12.2002-11.01.2003

T. Jennerjahn

Pre-JIGSE, Datenauswertung, Institut für Bio-
geochemie und Meereschemie, Universität
Hamburg, 13.03.01

Pre-JIGSE Report, Institut für Polarökologie,
Kiel, 23.04.2001

BSH, Projektbesprechung BRAMS-01,
Hamburg, 07.09.2001

BRAMS-I Projektplanung, Institut für Biogeo-
chemie und Meereschemie, Universität
Hamburg, 21.11.2001

G. Krause

Diskussionsaustausch, Geographisches Institut
der CAU Kiel, 17.01.2001

Deutsche Luft- und Raumfahrt, Koordinierung,
Köln, 12.02.2001

Institute of Ecological Economics, Royal
Swedish Academy of Science, Stockholm,
Schweden, 12.-19.06.2001

Deutsche Luft- und Raumfahrt, Identifizierung
von Trainingsgebieten im Landsat 7 ETM,
Köln, 02.08.2001

MADAM-Projekt, Begutachtung der 3. Projekt-
phase, Belém, Bragança, Brasilien, 27.08.-
06.09.2001

Deutsches Zentrum für Luft- und Raumfahrt,
Abt. Umweltinformatik, MADAM-Projekt,
Köln, 31.01.-01.02.2002

Deutsches Zentrum für Luft- und Raumfahrt,
Abt. Umweltinformatik, MADAM-Projekt,
Köln, 04.-07.06.2002

Meersbiologisches Labor der Universität
Stockholm, Department for Systems Eco-
logy, Tjärnö, Schweden, 17.-28.07.2002

Deutsches Zentrum für Luft- und Raumfahrt,
Abschlussarbeiten Phase 2 MADAM-Pro-
jekt, Köln, 02.-04.09.2002

A. Kunzmann

Vorbereitung der pre-JIGSE 2000 Expediti-
on, Jakarta, Bogor, Purwokerto, Cilacap,
Denpasar, Teilnahme am 9th Coral Reef
Symposium der ISRS, Bali, Indonesien,
10.-24.10.2000

Vorbereitung Besuch durch BIS und Bremer
Senat, Fa. Butt, Kiel, Fa. Ecomares, Büsum,
20.05.2001

Vorbesprechung des deutsch-indonesischen
Joint-Committee in der Meeresfor-
schung/Geowissenschaften, BMBF, Bonn,
01.06.2001

Begleitung indonesische Delegation, Besich-
tigung von Fischverarbeitungsbetrieben,
Aqua- und Marikultur, marine Naturstoffe,

PROJECT MEETINGS

Cuxhaven und Bremerhaven, 28.06.2001
Fa. Butt, Kiel, Fa. Ecomares, Büsum,
Besichtigung von Aquakulturanlagen durch
den Initiativkreis Aquakultur Bremen-
Bremerhaven, 03.07.2001

Indonesien-Kooperation, Bundesamt für
Seeschifffahrt und Hydrographie,
18.10.2001

Kontaktaufbau zu klein- und mittelständischen
Unternehmen, Besichtigung von Aquakul-
tur- und Halterungsanlagen, BAH Hamburg,
Pinneberg, Stade, 02.11.2001

GTZ, Eschborn und BMZ, Bonn, 29.11.2001
Begleitung indonesische Delegation des DKP,
Institut für Lebensmitteltechnologie und
Bioverfahrenstechnik, Technologietrans-
ferzentrum, Umweltinstitut, Bremerhaven,
Husmann und Hahn, Cuxhaven, Maritimes
Museum Tamm, Hamburg, 06.-07.12.2001

Bundesamt für Seeschifffahrt und Hydro-
graphie, Vorbereitung TEMA Workshop,
Hamburg, 04.02.2002

ECOMARES GmbH, Aquakulturkooperation
mit Indonesien, Büsum, 08.02.2002

Biotechnologie-Zentrum, Bremerhaven,
03.05.2002

Aquakulturkooperation, BIS, Cuxhaven, BAH,
Helgoland, 28.05.2002

Landesvertretung Schleswig-Holstein, Koo-
perationsabkommen Aquakultur, Berlin,
06.06.2002

Vorbereitung BMBF-Workshop »Clean Aqua-
culture«, BIS, Bremerhaven, 24.06.2002

Vorbereitung BMBF-Workshop »Clean Aqua-
culture«, IPÖ und Technologie-Transfer-
Zentrale Schleswig-Holstein (TTZ), Kiel,
28.-29.06.2002

Indonesien-Kooperation Aquaculture, Fa.
BUTT, Bülk, Strande, 13.08.2002

Aquakulturkooperation UNSOED, ECOMA-
RES GmbH, ZMT, Büsum, 15.08.2002

Kooperation Polykulturen Aquakultur,
Langförden, 11.09.2002

Aquakulturanlagen, Büsum, Stade, 06.11.2002

R. Lara

MADAM, Planungsworkshop, Salinas, Brasilien,
28.-30.03.2001

MADAM-Projekt, Begutachtung der 3. Projekt-
phase, Belém, Bragança, Brasilien, 26.08.-
21.09.2001

Diverse Planungstreffen zum interuniversitä-
ren Millenium-Projekt, CNPq, Nucleo de
Biologia Costeira, Bragança 2000 u. 2001
Arbeitsgruppentreffen Aminosäure-Analytik,

Alfred-Wegener-Institut, Bremerhaven,
05.06.2002

Kooperationsprojekt mit Umweltstiftung
Brasilien, UFZ, Leipzig, 03.-04.07.2002
Arbeitsgruppentreffen Aminosäure-Analytik,
Alfred-Wegener-Institut, Bremerhaven,
03.09.2002

O. Morisse

Brau & Lübbe, Geräte-Vorführung, Nor-
derstedt, 09.07.2002

Universität Hamburg, Vorbereitung Indonesi-
en-Expedition, 16.09.2002

C. Richter

Informationsreise Kooperation Korallenriff-
forschung: LIPI und KEHATI Foundation,
Jakarta, Universität in Bogor, Hassanuddin
University in Makassar, South Sulawesi,
Barrang Lompo Fieldstation der
Hassanuddin University, Manado, Denpasar,
Indonesien, 15.-22.10.2000

Fa. Knop, Aquarientechnik, Projekt Riesen-
muschelzucht, Heidelberg/Pirmasens,
23.-24.04.2001

Planung eines Kooperationsvorhabens mit
Prof. Rosenthal und Fa. Sander, Aquakultur
von Riff-Zierorganismen in Aqaba, Rotes
Meer, Hamburg, 28.05.2001

Institut für Pharmazeutische Biologie und
Aqua-Zoo, Heinrich-Heine-Universität,
Projektbesprechung »Chemical Ecology of
Red Sea Sponges«, Düsseldorf, 31.05.2001

Projektkoordination, Publikationsvorbereitung,
MSS, Aqaba, Jordanien, 03.-21.02.2002

Projektentwicklung mit Jordanien, MSS Aqaba,
Jordanien, 01.-11.04.2002

DFG-Verbundprojekt »Primärproduktion und
Mineralisierung in Korallenriffen«, MSS,
Aqaba, Jordanien, 01.-11.04.2002

Projektentwicklung Aquakultur von Korallen-
rifforganismen, IfM, Kiel, 03.05.2002

Benthopelagische Kooperation, AWI, Bremer-
haven, 19.06.2002

Aquakultur-Projekt, IfM Kiel, Fa. Sander, Kiel,
25.11.2002

Informationsreise, AIMS, Townsville, UNSW,
Sydney, Australien, 29.11.-13.12.2002

T. Rixen

Paleo-JGOFS Task Team, Laboratoire des
Sciences du Climat et de l'Environnement,
Gif-sur-Yvette, Frankreich, 16.-17.11.2001
JGOFS Workshop, Institut für Meereskunde,
Kiel, 26.-27.09.2002

Vorstellung des Forschungsprogrammes zur deutsch-kubanischen Zusammenarbeit in der Meeresforschung, IB/BMBF, Bonn, 11.12.2002

U. Saint-Paul

MADAM-Projekt, Begleitung Filmaufnahmen PRO7, Belém und Bragança, Brasilien, 26.01.-03.02.2000

Vorbereitung des Action Plan, Jakarta, Purwokerto, Cilacap, Indonesien, 31.10.-09.11.2000

Vorbereitung DFG/MOSTE Forschungsverbund Vietnam, ZMT, Bremen am 08.02.2002 und IfM, Hamburg, 30.04.2002 & 28.06.2002

DFG/MOSTE Planungsworkshop zur deutsch-vietnamesischen Kooperation, Hanoi, Vietnam, 12.-18.05.2002

Kooperationsprojekt mit Umweltstiftung Brasilien, UFZ, Leipzig, 03.-04.07.2002

D. Schories

MADAM, Planungsworkshop, Salinas, Brasilien, 28.-30.03.2001

A. Suthoff

Vorbesprechung des deutsch-indonesischen Joint-Committee in der Meeresforschung/Geowissenschaften, BMBF, Bonn, 01.06.2001

PAGES-JGOFS Task Team Workshop, Laboratoire des Sciences du Climat et de l'Environnement, Gif-sur-Yvette, Frankreich, 14.-17.11.2001

JGOFS Synthese Workshop, Kiel, 05.-06.12.2001

JGOFS-Indik und DFG-Antrag Golf von Bengalen, Institut für Biogeochemie und Meereschemie, Max-Planck-Institut für Meteorologie, Hamburg, 06.-07.12.2001

JGOFS-Workshop, Institut für Biogeochemie und Meereschemie, Hamburg, 10.-11.06.2002

D. Unger

DFG-Antrag Golf von Bengalen, Verbundprojekt SIRRO, Institut für Biogeochemie und Meereschemie, Max-Planck-Institut für Meteorologie, Hamburg, 06.-07.12.2001

P. Westhaus-Ekau

Vorbesprechung des deutsch-indonesischen Joint-Committee in der Meeresforschung/Geowissenschaften, Bonn, BMBF, 01.06.2001

Jenderal Soedirman University (UNSOED), Faculty of Biology, Purwokerto, Indonesien, 11.-25.09.2002

M. Wolff

Vorbereitung des Action Plan Jakarta, Purwokerto, Cilacap, Indonesien, Besuch des ICLARM, Malaysia, 31.10.-12.11.2000

El-Niño-Projekt, Universidad Agraria la Molina, Lima, Peru, 24.02.-12.03.2001

Vorbesprechung des deutsch-indonesischen Joint-Committee in der Meeresforschung/ Geowissenschaften, BMBF, Bonn, 01.06.2001

Projektvorbereitung »Concept note«, Kooperation ICLARM, Universität Hohenheim, 18.-19.02.2002

Instituto de Oceanología, Universidad de la Habana und Ministerio de Pesca, Kuba, Projektplanung,

ISATEC

International Studies in Aquatic Tropical Ecology – ISATEC (Leitung: M. Wolff, weitere Dozenten: U. Berger, M. Birkicht, S. Dittmann, W. Ekau, M. Glaser, T. Jennerjahn, G. Krause, A. Kunzmann, C. Richter, U. Saint-Paul, D. Schories, J.T. Salita), WS 1999/2000, SS 2000, WS 2000/2001, SS 2001, WS 2001/2002, SS 2002, WS 2002/2003

Lectures

- Ringvorlesung im Hauptstudium Meeresbiologie (U. Saint-Paul, M. Wolff), WS 1999/2000, WS 2000/2001
- Einführung in die Fischereiwissenschaft (U. Saint-Paul, W. Ekau), SS 2001
- Einführung in die Palynologie und Vegetationsgeschichte der Erde (H. Behling), SS 2001, SS 2002
- Biogeochemistry of tropical marine systems I and II; Vorlesung und Seminar (V. Ittekkot), SS 2001, WS 2001/2002, SS 2002
- Vorlesung und Seminar: Vegetation und Ökologie der Tropen und Subtropen (H. Behling), SS 2002
- Vorlesung und Seminar: Marine Biogeographie (S. Dittmann), SS 2002
- Vorlesung: Lebensräume tropischer Küsten (S. Dittmann, A. Kunzmann, C. Richter), WS 2002/2003
- Vorlesung und Seminar: Biogeochemistry of tropical marine systems (V. Ittekkot), WS 2002/2003
- Vorlesung und Übung: Einführung in die Palynologie und Vegetationsgeschichte der Erde (H. Behling), WS 2002/2003

Practical Courses

- Praktikum: Struktur und Funktion der Pflanzen I (H. Behling), SS 2000
- Praktikum: Pollenanalytisches Praktikum mit Exkursion (H. Behling), SS 2001, SS 2002
- Grundkurs: Ökologie (S. Dittmann), SS 2001
- Praktikum: Einführung in die Fischereibiologie. Meeresökologisches Grundpraktikum (U. Saint-Paul, M. Wolff, W. Ekau, P. Westhaus-Ekau), SS 2002
- Vorlesung und Übung: Einführung in die

Palynologie und Vegetationsgeschichte der Erde (H. Behling), WS 2002/2003

Übung: Paläoökologie, Palynologie – Anleitung zum selbständigen wissenschaftlichen Arbeiten (H. Behling), WS 2002/2003

Seminars and Colloquia

- Diplomanden-, Doktoranden- und Mitarbeiterseminar zur marinen Tropenökologie (S. Dittmann, V. Ittekkot, M. Kochzius, U. Saint-Paul, M. Wolff), WS 1999/2000, SS 2000, WS 2000/2001, SS 2001, WS 2001/2002, SS 2002
- Tropenökologisches Seminar für Diplomanden und Doktoranden sowie Anleitung zum selbständigen wissenschaftlichen Arbeiten (S. Dittmann, V. Ittekkot, U. Saint-Paul, M. Wolff), WS 2002/2003
- Kolloquium zur marinen Tropenökologie (S. Dittmann, V. Ittekkot, M. Kochzius, U. Saint-Paul, M. Wolff und internationale Referenten), SS 2000, WS 2000/2001, SS 2001, WS 2001/2002, SS 2002, WS 2002/2003
- Seminar: Konzepte der Benthosökologie (S. Dittmann), WS 2000/2001, WS 2001/2002, WS 2002/2003
- Vorlesung und Seminar: Biogeochemistry of tropical marine systems I and II (V. Ittekkot, Balzer), SS 2002, WS 2002/2003
- Vorlesung und Seminar: Vegetation und Ökologie der Tropen und Subtropen (H. Behling), SS 2002
- Vorlesung und Seminar: Marine Biogeographie (S. Dittmann), SS 2002

Course Series »The Sea and its Resources«

Indonesien:

- Course on Early Life History of Fish, Jenderal Soedirman University (UNSOED), Faculty of Biology, Purwokerto, 16.-21.09.2002 (P. Westhaus-Ekau, S. Kadler)
- Course on Aging and Growth in Fish, Jenderal Soedirman University (UNSOED), Faculty of Biology, Purwokerto, 23.-29.09.2002 (W. Ekau, S. Kadler)

Kuba:

Tropische Modellierung (in Spanisch), Centro de Investigaciones Pesqueras (CIP), Havanna, 16.-20.09.2002 (M. Wolff)

Philippinen:

DAAD-Kurzzeitdozentur, »Marine Fishes«, Manila, 12.10.-03.11.2001 (W. Ekau)

Short Training Course in Coral Reef Ecology, Aquatic Science and Technology Institute (ASTI), Palawan, 10.-28.01.2002 (A. Kunzmann)

Vietnam:

Short Course on Biogeochemistry and Ecology of Tropical Coastal Seas, Institute of Oceanography, Nha Trang, 29.09.-02.10.2000 (V. Ittekkot, U. Saint-Paul)

Further Teaching in Partner Institutions

Brasilien:

Postgraduiertenkursus: Fische in Ästuaren (in Portugiesisch), UFPa, Bragança, 20.11.-01.12.2000 (U. Saint-Paul)

Postgraduiertenkursus: Aquatic chemistry, UFPa, Belém, 30.10.-03.11.2000 (R. Lara)

Seminário Regionalizado do Gerenciamento Costeiro (Regional coastal management seminar), SECTAM, Vigia, Pará, 20.-21.4.2001 (M. Glaser)

Master Course »Aquatische Chemie« (in Portugiesisch), UFPa, Belém, 23.-27.04.2001 (R. Lara)

Spezialkurs »Paleovegetation dynamics: evidence, analysis and interpretation«, Universidade Federal do Rio Grande do Sul (UFRGS) in Porto Alegre, 14.-22.03.2002 (H. Behling)

Postgraduiertenkurs: Interdisziplinarität und sozialwissenschaftliche Methoden im Küstenmanagement (in Portugiesisch), Belém, 18.-29.11.2002 (M. Glaser)

Deutschland:

Mangrove research in the frame of integrated coastal zone management. International Doctoral Studies Program for Development Research, Zentrum für Entwicklungsforschung (ZEF), 24.10.2002 (U. Saint-Paul)

Indien:

Marine Biogeochemistry, Institute of Oceanography, Goa, 04.-06.09.2002 (V. Ittekkot)

Peru:

Kursus: Nahrungsnetze und Energiefluß in marinen Ökosystemen – Theoretische

Grundlagen, Anwendungen und Modellierung (in Spanisch), Universidad Agraria, La Molina, 22.02.-03.03.2000 (M. Wolff)

Schweiz:

Paläoökologische und paläoklimatische Studien in tropischen und subtropischen Regionen Südamerikas, Universität Bern, 06.-09.11.2002 (H. Behling)

Habilitations

Dr. Ruben Lara: Humic substances in the marine environment: Characteristics and role in the cycling of Carbon, Nitrogen and Xenobiotics (Bremen 2000).

Dr. Hermann Behling: Spätquartäre paläoökologische und paläoklimatische Studien an neotropischen Ökosystemen basierend auf pollenanalytischen Untersuchungen terrestrischer und mariner Sedimentkerne (Bremen 2001).

Dr. Sabine Dittmann: The ecology of benthic communities in tropical tidal flats (Bremen 2001).

Doctoral Theses

Al-Najjar, Tariq H. (2000): The seasonal dynamics and razing control of phyto- and mesozooplankton in the northern Gulf of Aqaba (Hempel).

Diele, Karen (2000): Reproduction, population ecology and exploitation of the mangrove crab *Ucides cordatus* (Linnaeus, 1763) (Crustaceae, Decapoda Brachyura) in Northern Brazil (Saint-Paul).

Hildenbrandt, Hanno (2002): Simulationsmodelle zur Untersuchung der Dynamik von Mangrovenwäldern (Berger).

Jesse, Sandra (2001): Bedeutung der Großkrebse (Brachyura) für die Struktur und Trophodynamik sublitoraler Lebensgemeinschaften der chilenischen Küste (Wolff).

Jiménez, Carlos (2002): Effects of recent warming events on coral reef communities of Costa Rica (Central America) (Wolff).

Khalil, Ahmad S.M. (2001): Response of meiofauna to mangrove deforestation in arid coastal habitats of the Red Sea (Sudan) with emphasis on free-living marine nematodes. (Saint-Paul).

Koch, Boris (2002): Organic matter pathways in a mangrove system in Northern Brazil –

- Chemical tracers of major sources under the influence of sedimentation and biological degradation (Lara).
- Kochzius, Marc (2002): Ecology, genetic population structure, and molecular phylogeny of fishes on coral reefs in the Gulf of Aqaba and northern Red Sea (Hempel).
- Mehlig, Ulf (2001): Variabilität von Primärproduktionsleistungen von Baum- und Straucharten der Mangrove von Bragança (Saint-Paul).
- Ortiz, Marco (2001): Holistic modelling of a subtidal benthic ecosystem of northern Chile (Tongoy Bay), to improve the knowledge and understanding of its structure and function: assessing the effects of intensive fisheries upon different invertebrates and algae species (Wolff).
- Salita, Joselita T. (2000): The influence of spatial arrangement of seagrasses on fish abundance in Bolinao, northern Philippines (Saint-Paul).
- Wunsch, Mark (2000): Exploration of structure and trophodynamics of coelobite (cavity-dwelling) communities in Red Sea coral reefs (Hempel).
- Ongoing:**
- Adams, Moira: Investigation of mangrove regeneration and succession in small, medium, and large scale areas after different kinds of disturbances (Berger).
- Aktani, Unggul: Fish communities as related to substrate characteristics in the coral reefs of Kepulauan Seribu Marine National Park, Indonesia, five years after stopping blast fishing practices (Wolff).
- Alpermann, Tilman: Räumlich explizite trophische Modellierung des Golfes de Batabanó durch GIS unterstützte ECOPATH Modelle (Wolff).
- Cohen, Marcelo: Past and current evolution of the Bragança mangroves - North Brazil (Saint-Paul).
- Cornils, Astrid: Bedeutung des Zooplanktons für die benthisch-pelagische Kopplung in Korallenriffen des Roten Meeres (Richter).
- Dominici, Arturo: Fish assemblage of the Central American Region: a comparison between both sides of the Isthmus of Panama (Wolff).
- Hüerkamp, Chistiane: Ernährungsphysiologische Untersuchungen an verschiedenen riffbildenden Korallen unter simulierten El Niño-Bedingungen (Wolff).
- Johnston, Gonzalo Rene Olivares: A metapopulation framework to study the influence of physical factors on recruitment variability of coastal benthic invertebrates in Central Chile (Wolff).
- Kober, Kerstin: Nahrungsökologie und Habitatnutzung von Schreit- und Wattvögeln im Ökosystem Mangrovenwald des Caeté Ästuars Nordbrasilien (Saint-Paul).
- Kötter, Iris: Vergleichende Autökologie von Kryptofauna in der Karabik und im Roten Meer (Hempel).
- Krumme, Uwe: Wanderungsökologie und großräumige Bilanzierung der Verteilung von Fischen zwischen den Tidenkanälen der Mangrove und dem Caeté Ästuar (Saint-Paul).
- Mendoza, Ursula: Biochemie von Sedimenten (Saint-Paul).
- Menezes, Moirah: Investigations of the dynamic of mangrove forests by means of dendrochronological methods (Berger).
- Nordhaus, Inga: Ernährungsökologie der Mangrovenkrabbe *Ucides cordatus* (Ocyropodidae) im Caeté Mangrovenästuar, Pará, Nordost-Brasilien (Wolff).
- Porto, Fernando: Ecology and trophic relationships of zooplankton in the Tamandaré reefs, Pernambuco, Brazil (Saint-Paul).
- Protazio, Marcelo: The development of a methodology to detect and to analyze weak spatial ecological pattern (Berger).
- Reise, Anneken: Untersuchungen zur Gesamtbiomasse von Baumbeständen innerhalb des Mangrovenürtels bei Bragança im Bundesstaat Pará/Nordostbrasilien (Saint-Paul).
- Roa Quiaoit, Hilly Ann: Rearing and reproduction of the giant clam (*Tridacna maxima*, *T. squamosa*) in the Gulf of Aqaba, Red Sea (Richter).
- Schmitt, Bettina: Charakterisierung von organischen Stickstoffverbindungen im Sediment und Wasser in einem Mangrovenökosystem Nordbrasilien (Lara).
- Schroeder, Eva: Investigation of population dynamics including risk assessment of the crab *Ucides cordatus* (Berger).
- Szlafsztein, C.F.: Vulnerability and response measures to natural hazard and sea level rise impacts: Long term coastal zone management, NE of the State of Pará, Brazil (Lara)
- Velez, José: Funktion der Bucht von Independencia, Peru, als Larvenaufwuchsgebiet (Wolff).

Waltemath, Maike: Ecological and economical impact of artificial reefs in Negros Oriental, Philippines, and implications for fishery management (Saint-Paul).

Diploma Theses

- Baums, Iliana (2000): Population ecology and feeding physiology of *Coralliophila abbreviata*, Lamarck (Coralliophilidae), a corallivorous gastropod in the Florida Keys (Hempel).
- Brenner, Matthias (2002): Nahrungsökologische Untersuchungen an ausgewählten Fischarten während der Regenzeit in der Mangrove vor Bragança (Pará, Brasilien) (Saint-Paul).
- Buck, Bela Hieronymus (2000): Experimentally induced bleaching and recovery of *Tridacna gigas* (Saint-Paul).
- Butgereit, Katja (2002): Die Bedeutung organischer Anreicherung durch Vogelkolonien auf ihre Umwelt: Beispiele von einer gemischten Brutkolonie des Scharlachbisses (*Eudocimus ruber*) in Nordostbrasilien (Saint-Paul).
- Ewald, Marco (2000): Charakterisierung von Mikrosatelliten bei *Ucides cordatus* (Blohm/Saint-Paul).
- Hamann, Katrin (2001): Jahreszeitliche Dynamik des Phytoplanktons und der Nährsalzkonzentration im Caeté-Ästuar (Bragança, Brasilien) (Saint-Paul).
- Krumme, Uwe (2000): Gezeiteninduziertes Wanderverhalten von Fischen (Pisces) in der Mangrove vor Bragança (Pará, Brasilien) (Saint-Paul).
- Janzen, Katja (2002): Der Scharlachibis (*Eudocimus ruber*). Ökologische und sozioökonomische Untersuchungen als Basis eines Schutzkonzeptes im Bundesstaat Pará, Nordbrasilien (Saint-Paul).
- Lang, Marc (2000): Ursachen der kleinräumigen Verteilung und Bestandsstruktur der Pilgermuschel *Argopecten purpuratus* im Fischereigebiet von Pisco (Wolff).
- Loick, Natalie (2001): Identification of different water bodies by seven indicator calanoid copepods in the Angola-Benguela front system (Saint-Paul).
- Mühlig-Hoffmann, Annette (2001): The distribution of corals and macroalgae in relation to freshwater and sediment discharge on a fringing reef in Kane'Ōhe Bay, O'ahu, Hawai'i (Saint-Paul).

Pasenau, Ilka (2000): Raubdruck und Schwarmverhalten verschiedener Altersgruppen bei *Neopomacentrus miryae* (Pomacentridae: Teleostei) und *Pseudanthias squamipinnis* (Serranidae:Teleostei) (Hempel).

Schaub, Christoph (2000): Untersuchung der Großreusenfischerei im Ästuar des Rio Caeté/Nordbrasilien (Saint-Paul).

Tsounis, Georgios (2001): Territoriality in the mangrove blenny (Garman 1903) *Omobranchus rotundiceps obliquus* (Blennidae), home range size in response to nest removal (Saint-Paul).

Ongoing:

- da Rocha, Régine Elisabeth: Nahrungsökologische Untersuchungen an Fischgemeinschaften im Ästuar von Paranaguá (Saint-Paul).
- de Feitas, Ynglea Georgina: A Comunidade íctica de uma lagoa no manguezal de Bragança – PA (Saint-Paul).
- Gieseler, Jörn-Steffen: Nahrungsökologische Untersuchungen an Fischgemeinschaften im Ästuar von Paranaguá (South Brazilian coast) (Saint-Paul).
- Schweers, Tanja: Populationsdynamische Untersuchungen an der Schokoladenmuschel *Megapitaria squalida* (Sowerby, 1835) in der Bahía Magdalena, Baja California (Mexiko) (Wolff).
- Stoll, Ursula: Biogeochemical fluxes in the Indonesian Sea (Ittekkot).

ISATEC Master Theses 2001

- Acheampong, Emmanuel (Ghana): Distribution of Macrozoobenthos abundance and biomass in intertidal soft sediments of North-East Brazil (Dittmann, Saint-Paul).
- Aggrey-Finn, Joseph (Ghana): The structure of the artisanal fisheries in central Ghana and observations on the biology of their important species (Ekau, Saint-Paul).
- Alpermann, Tilman Jens (Deutschland): The fisheries of ornamental fishes in Guanacaste, Costa Rica, with special emphasis on the population dynamics of the Cortez Rainbow Wrasse, *Thalassoma lucasanum* (Gill 1863) (Wolff, Cortés Nuñez).
- Bednarski, Melinda (USA): Macrozooplankton of Culebra Bay, Costa Rica, with an Emphasis on Copepods (Wolff, Morales-Ramirez).
- Benards, Okeyo (Kenia): Transplantation of Coral Fragments for the Restoration of Coral Reefs in Mombasa-Kenya (Breckling, Ruf).

TEACHING AND TRAINING

- Cermak, Monika (Deutschland): Assessment of the Profitability of Four Artisanal Fishing Techniques at Elmina, Central Region, Ghana (Saint-Paul, Ekau).
- Darkoh, Charles (Ghana): Impact of human activities on the breeding success of mallard, *Anas platyrhynchos* (Breckling, Reuter).
- Freytag, Iris (Deutschland): Growth and mortality of *Acropora nobilis* (Anthozoa: Scleractinia) fragments in shallow waters of the Seribu Islands, Indonesia, using different attachment methods (Kunzmann, Wolff).
- Leal Flórez, Jenny (Kolumbien): Feeding ecology of *uricia branca*, *Cathorops agassizii*, (Pisces: Ariidae), in an intertidal channel of the Caeté estuary, Northern Brazil (Saint-Paul, Wolff).
- McInerney, Caitriona (Irland): The Ecology of coral diseases in the Gulf of Aqaba, Jordan (Richter, Breckling).
- Nasution, Ichwan Makmur (Indonesien): Fisheries condition in the Segara Anakan Lagoon, Cilacap, Central Java, Indonesia (Wolff, Brey).
- Niemann, Helge (Deutschland): Gravity currents and their effect on phytoplankton and nutrients in the Gulf of Aqaba, Red Sea (Ittekkot, Richter).
- Packeiser, Tim (Deutschland): Development of a management plan for the sea turtle conservation project at Playa Platanares, Peninsula de Osa, Costa Rica (Wolff, Govan).
- Schmidt, Stefanie (Deutschland): Population ecology & fishery of the gastropod *Cittarium pica* along the Caribbean Coast of Costa Rica (Wolff, Zamora).
- Slade, Christopher Lawrence (USA): The ecology of Trichodinids (Ciliophora: Peritrichida) from Southwest Java, Indonesia, with taxonomic descriptions (Kunzmann, Palm).
- Wiemann, Annika (Deutschland): Aspects of the artisanal beach seine fishery in the Cape Coast area, Ghana (Ekau, Saint-Paul).
- Yasman, Yasman (Indonesien): The guild of Phyllidiids from Thousand Islands National Park Indonesia with special reference to the feeding biology and chemical ecology of *Phyllidia varicosa* Lamarck, 1801 (Wolff, Proksch).
- and *C. plumosus*, Diptera) in Regenerating Nitrogen in Limnic Sediments via Ammonium Excretion (Jørgensen, Stief).
- Asare, Noble Kwame (Ghana): The Influence of some Environmental Processes on Vertical Particle Flux in the Bay of Bengal, Indian Ocean (Jennerjahn, Ittekkot).
- Aziz, Poppy (Indonesien): Benthic Survey of Small Size Infauna in Several Bays on the Coast of West Sumatra, Indonesia (Dittmann, Nurdin).
- Beyer, Kathleen (Deutschland): Investigations into the Reproductive Biology and Ecology of Olive Ridley Turtles (*Lepidochelys olivacea* [Escholtz, 1829]) at Old Ningo Beach, Ghana, West Africa (Ekau, Breckling).
- Campion, Benjamin Betey (Ghana): A Comparative Study of the Benthic Communities of the Fosu and the Brenu Akyinim Lagoons of Ghana (Dittmann, Ekau).
- Darmawan, Rahmania (Indonesien): Influence of Eutrophication on the Phytoplankton Assemblage of Jakarta Bay, Indonesia (Kirst, Wolff).
- Gomez, José (Spanien): Maintaining Fisheries Resources off Yala National Park: a contribution based on Historical, Biological and Socio-Economic data (Kunzmann, Breckling).
- Gonelli, Sabine (Deutschland): Characteristics of Coral Mucus and Adsorption of Matter (Hagen, Hüttel).
- Hutahaean, Andreas Albertino (Indonesien): Sediment as Archive of Heavy Metal Pollution in Zanzibar Islands, Tanzania (Balzer, Jennerjahn).
- Keuter, Sabine (Deutschland): Socio-economic Analysis of a Fishermen's Association in Tortugas Bay, Northern Peru, with Special Emphasis on its Activity of Scallop (*A. purpuratus*) Bottom Culture (Wolff, Mendo).
- Mackensen, Annika (Deutschland): Contributions to Sea Turtle Conservation in Sri Lanka: Growth Rates, Socio-economic Data and Nesting Patterns (Kunzmann, Amarasooriya).
- Mahon, Anne Marie (Irland): Impact of Effluent Waters of a Fish Processing Plant on the Species Assemblage in the Rocky Intertidal of Herradura Bay, Northern Chile (Wolff, Stotz).
- Moroff, Nadine E. (Namibia): Determination of spatial and temporal patterns of seaweed cast along Herradura Beach, Chile, as a basis for beach management (Wolff, Stotz).

ISATEC Master Theses 2002

- Ameyaw Asiedu, Godfred (Ghana): The Role of Chironomid Larvae (*Chironomus riparius*

- Mwangamilo, Julitha J. (Tansania): Nutritional Studies on Milkfish (*Chanos chanos*) and the Development of a Practical Feed for its Culture in Zanzibar (Saint-Paul, Ekau).
- Porst, Gwendolin (Deutschland): Ecological Feasibility of Scallop (*Argopecten purpuratus*) Bottom Culture in Tortugas Bay, Northern Peru (Wolff, Mendo).
- Suwandana, Endan (Indonesien): Economic Valuation of Segara Anakan Mangrove Ecosystem, Central Java, Indonesia (Breckling, Kuma, Wolff).
- Woyt, Holger (Deutschland): Quantification of Coral Mucus Release (Hagen, Hüttel).

EVENTS AT ZMT

- 14.01.2000: Sitzung zur Entwicklung der WTZ mit Brasilien
- 19.01.2000: RSP-Treffen der deutschen Themensprecher
- 29.-30.03.2000: Meeresökologisches Symposium: »Meer und Strand – Zur Ökologie der Flachgewässerforschung«
- 02.05.2000: preJIGSE-Treffen der deutschen Teilnehmer zur Vorbereitung der Expedition
- 03.05.2000: »Küstenmanagement«, Kurs, Dr. Michael H. Rieß, Büro für Integrierten Umweltschutz CDG, Bremen
- 11.05.2000: Auswertung »Meteor«-Reise 44/2 Frühjahr 1999
- 12.05.2000: DGM-Vorstandssitzung
- 29.05.2000: BENEFIT, Gründungssitzung des Steering Committee
- 07.06.2000: SCOPE, Landesausschuß
- 16.06.2000: Begutachtung der Kontaktstelle
- 04.07.2000: Auswertung »Meteor-Reise« 44/2 Frühjahr 1999
- 09.07.2000: Antragsvorbereitung Expedition FS »Sonne«
- 28.08.-16.09.2000: »Early life history of fishes«, BENEFIT-Kurs mit Teilnehmern aus Angola, Namibia und Südafrika
- 14.09.2000: preJIGSE-Treffen der deutschen Teilnehmer zur Vorbereitung der Expedition
- 13.-18.11.2000: German-Indonesian Cooperation in Marine Sciences and Geosciences – A bilateral meeting for project development
- 24.11.2000: 13. Sitzung der Deputation für Wissenschaft
- 29.11.2000: Sitzung des ZMT-Kuratoriums
- 07.12.2000: Informationsveranstaltung für die Delegation des International Ocean Institute (IOI) unter Leitung von Prof. Elisabeth Mann Borgese
- 13.-16.02.2001: 14. Jahrestagung der Gesellschaft für Tropenökologie e.V.
- 07.-18.05.2001: Train-of-Trainer Workshop for COASTMAN-Partners from Asia - Strengthening Skills and Competences for Integrated Coastal Zone Management Training (Dozenten: Dr. Jutta Berninghausen, Dr. Marion Glaser, Dr. Andreas Kunzmann, Saskia Morell)
- 22.05.2001: »ZMT-Forum for Partnership in Research and Education 2001«, unter der Schirmherrschaft von Bundesforschungsministerin Edelgard Bulmahn, BMBF, Bonn
- 27.06.2001: 2nd Steering Committee Meeting of DKP-RISTEK-BMBF Delegation on Earth and Ocean Sciences
- 04.-06.09.2001: IOI-Executive Council Meeting
- 21.-28.09.2001: XIth General Assembly of the Scientific Committee on Problems of the Environment – SCOPE and adjacent Workshops
- 26.09.2001: Abschlußveranstaltung des ISATEC-Studienganges 1999-2001
- 19.10.2001: Besuch des German-Chinese Steering Committee of Marine Science and Geotechnologies
- 30.10.2001: Stipendiaten-Auswahlsitzung des DAAD und ISATEC
- 07.11.2001: Sitzung des ZMT-Kuratoriums
- 25.-28.02.2002: Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«
- 12.04.2002: I. Marikultur-Gespräch mit Vertretern des BMBF und der Länder Bremen und Schleswig-Holstein
- 22.05.2002: BMBF-Veranstaltung zur Wissenschaftlich-Technologischen Zusammenarbeit mit Brasilien
- 22.-23.05.2002: Akkreditierung des ISATEC Studienganges
- 27.05.-07.06.2002: Train-of-Trainer Workshop for COASTMAN-Partners from Latin-America – Strengthening Skills and Competences for Integrated Coastal Zone Management Training (Dozenten: Gracia Ortiz, Carmen Candelo, Dr. Covadonga Orejas, Dr. Carlos Jiménez, Dr. Ralf Schwamborn), 23 Teilnehmer
- 01.06.2002: 2. Sonnabend der Wissenschaft. Expedition Wiener Straße
- 25.07.2002: Medienpartnerschaft Weser Kurier/MARUM »GeoTouren – Hinter den Kulissen«
- 08.08.2002: SCOPE Landesausschuss-Sitzung
- 04.-7.11.2002: Training – education – research in the field of management of coastal and marine resources – Cooperation between partners from South India and Bremen, Germany
- 06.11.2002: Sitzung des ZMT-Kuratoriums
- 27.11.2002: Arbeitstreffen zur deutsch-kubanischen Kooperation
- 04.12.2002: Besuch Seiner Exzellenz, des Botschafters der Republik Indien in Berlin, Herrn T.C.A. Rangachari, Gesprächsrunde mit Vertretern des ZMT, UFT, ZARM und Geowissenschaften

VISITORS AND GUEST RESEARCHERS

- Prof. Dr. Taufik **Abdullah**, Direktor, LIPI, Indonesien; 09.04.2002
- Prof. Ahmed **Abu-Hilal**, Bahrain; 07.12.2000: Informationsveranstaltung für die Delegation des International Ocean Institute (IOI) unter Leitung von Prof. Elisabeth Mann Borgese
- M. Sc. Enzo **Acuña Soto**, Dekan der Meeresfakultät der Universidad Catolica del Norte, Coquimbo, Chile; 13.08.2001
- Dr. Seno **Adi**, BPPT, Jakarta, Indonesien; 16.-17.09.2002
- M.Sc. Consuelo **Aguiar**, Centro de Investigaciones Marinas (CIM) Universidad de la Habana, Havanna, Kuba; 25.02.-01.03.2002: Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«
- Prof. Dr. H. Muchtar **Ahmad**, Rector, Universität von Riau, Department of National Education, Pekanbaru, Indonesien; 22.01.-01.03.2002
- Dr. Salim **Al-Moghrabi**, Marine Science Station, Aqaba, Jordanien ; 02.-29.08.2000
- Nidal **Al-Ouran**, Executive Director, Jordan Royal Ecological Diving Society, Jordanien; 06.-20.04.2000
- Dr. Ziad **Al-Zubairi**, Marine Science and Resources Research Centre, Aden, Jemen; 09.-10.01.2001; 10.01.2001: Colloquium for tropical marine ecology: »Marine research activities in Jemen«
- Dr. Pedro **Alcolado**, Instituto de Oceanología, Havanna, Kuba; 25.02.-01.03.2002: Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«
- Dr. **Aliaga**, UNESCO, Paris; 20.03.2002
- Prof. Dr. Ing. Iskandar **Alisjahbana**, Rektor a.D., ITB Bandung, Entrepreneur in Biotech and Aquaculture, Indonesien; 22.04.2002
- Prof. Dr. A. Mappadjantji **Amien**, UNHAS, Indonesien; 27.03.2002
- Prof. Dr. Rudolf **Amann**, Max Planck Institute für Marine Mikrobiologie, Bremen; 04.-08.11.2002: Training – education – research in the field of management of coastal and marine resources – Cooperation between partners from South India and Bremen, Germany
- Prof. Dr. Nguyen Tac **An**, Institute of Oceanography, Cao Da, Nha Trang, Vietnam; 25.05.-06.06.2000
- Wang **Antao**, Program Officer, Department of International Cooperation, SOA, Beijing, China, German-Chinese Steering Committee of Marine Science and Geotechnologies; 19.10.2001: Besuch des German-Chinese Steering Committee of Marine Science and Geotechnologies
- Dr. Arsenio **Areces**, Instituto de Oceanología, Havanna, Kuba; 25.02.-01.03.2002: Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«; 08.-23.12.2002
- Dr. Harald **Asmus**, Alfred-Wegener-Institut, Sylt; 25.02.-01.03.2002: Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«
- Dr. M. **Baba**, Director, Centre for Earth Science Studies, Thiruvananthapuram, Indien; 04.-08.11.2002: Training – education – research in the field of management of coastal and marine resources – Cooperation between partners from South India and Bremen, Germany
- Dr. Mohammad Ibrahim **Badran**, Marine Science Station, Aqaba, Jordanien; 28.-31.05.2001; 12.-14.12.2001; 08.-10.08.2002
- Prof. Dr. Wolfgang **Balzer**, Universität Bremen; 23.01.2002; 21.02.2002; 22.05.2002: BMBF-Veranstaltung zur Wissenschaftlich-Technologischen Zusammenarbeit mit Brasilien; 18.06.2002
- Dr. Masako Otsuka **Bannai**, International Ocean Institute, Japan; 07.12.2000: Informationsveranstaltung für die Delegation des International Ocean Institute (IOI) unter Leitung von Prof. Elisabeth Mann Borgese
- Dr. Julian **Barbière**, IOC, Paris; 14.08.2002
- Dr. Mario **Barletta**, Universidade Federal do Para, Pontal do Sul, Brasilien; 31.09.-30.10.2001; 21.11.2001: Colloquium for tropical marine ecology, »Seasonal changes of fish communities (density, biomass and diversity) in the Paranaguá Bay estuary (subtropical Brazil)«
- Victoria de **Barros Neto**, Institute for Fisheries Research, Luanda, Angola; 29.-30.05.2000: BENEFIT, Gründungssitzung des Steering Committee
- Ir. Jamal **Basmal**, DKP, Meeresministerium, Dep. Foodprocessing, Indonesien; 03.-08.12.2001

VISITORS AND GUEST RESEARCHERS

- Dr. Dirk **de Beer**, Max Planck Institut für Marine Mikrobiologie, Bremen; 25.02.-01.03.2002: Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«; 13.11.2002; 27.11.2002: Arbeitstreffen zur deutsch-kubanischen Kooperation
- M.Sc. Maria **Berger**, James Cook University, Australien; 07.02.2002: Colloquium for tropical marine ecology, »Selecting sites for marine protected areas on coral reefs: Do biodiversity approaches for corals and fish work?«
- Dr. Patricio **Bernal**, UNESCO, Paris; 20.03.2002
- H. **Biber**, Wissenschaftsjournalist, N3, Brixenstadt; 07.09.2000
- Dr. Holger **Bienhold**, Bremer Senat für Bildung und Wissenschaft, Bremen; 25.02.-01.03.2002: Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«; 21.03.2002
- Dr. M. **Bilio**, University of Aarhus, Dänemark; 17.-18.01.2000
- Prof. Dr. Ralf **Bill**, Institut für Geodäsie und Geoinformatik, Universität Rostock; 25.02.-01.03.2002: Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«
- Jacobo **Blanco**, INVEMAR, Sta Marta, Kolumbien.; 19.05.-02.06.2001
- Dr. John **Blay**, Department of Zoology, University of Cape Coast, Ghana; 21.-25.05.2001
- Manfred **Bode**, Landesamt für Entwicklungszusammenarbeit, Bremen; 25.02.-01.03.2002: Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«; 12.08.2002; 04.-08.11.2002: Training – education – research in the field of management of coastal and marine resources – Cooperation between partners from South India and Bremen, Germany
- Dr. Alexandru S. **Bologa**, International Ocean Institute, Schwarzes Meer, Rumänien; 07.12.2000: Informationsveranstaltung für die Delegation des International Ocean Institute (IOI) unter Leitung von Prof. Elisabeth Mann Borgese
- Dave **Boyer**, National Marine Information and Research Centre, Swakopmund, Namibia; 29.-30.05.2000: BENEFIT, Gründungssitzung des Steering Committee
- Prof. Dr Sabine **Bröck**, Konrektorin für Internationale Angelegenheiten, Universität Bremen; 28.02.2002; 04.12.2002: Besuch Seiner Exzellenz, des Botschafters der Republik Indien in Berlin, Herrn T.C.A. Rangachari, Gesprächsrunde mit Vertretern des ZMT, UFT, ZARM und Geowissenschaften
- Bernadette **Brown**, Maribus Industries (Pty) Ltd, South Africa; 14.-22.12.2002
- Dr. Dorothea **Brückner**, FB 2-Uni-Bremen; 24.07.2002
- Prof. Dr. Fritz **Buchholz**, BAH des AWI, Helgoland; 22.05.2002: BMBF-Veranstaltung zur Wissenschaftlich-Technologischen Zusammenarbeit mit Brasilien
- Bundesforschungsministerin Edelgard **Bulmahn** BMBF, Bonn; 22.05.2001: ZMT-Forum for Partnership in Research and Education 2001 unter der Schirmherrschaft von Bundesforschungsministerin Edelgard Bulmahn, BMBF, Bonn
- M.Sc. Mauricio **Camargo**, UFPa/MADAM Projekt, Campus Universitário de Belém, Brasilien, Ph.D. student; 08.09.-01.10.2000
- M.Sc. Monika **Cermak**, Universität Heidelberg; 25.09.2002
- Dr. Sandra **Child**, ICLARM, Head, Information & Communication; 14.09.2000
- Dr. Catriona **Clemmesen**, IfM Kiel; 22.05.2002: BMBF-Veranstaltung zur Wissenschaftlich-Technologischen Zusammenarbeit mit Brasilien
- Rudi **Cloete**, National Marine Information and Research Centre, Swakopmund, Namibia; 28.08.-15.09.2000: »Early life history of fishes«, BENEFIT-Kurs mit Teilnehmern aus Angola, Namibia und Südafrika
- Mrs. Anita **Coady** (Treasurer, USA), IOI Executive Council; 04.-06.09.2001: IOI-Executive Council Meeting
- Sirit **Coeppicus**, Universität Aachen; 01.02.2002
- Prof. Dr. Yehuda **Cohen**, Division of Microbial and Molecular Ecology, Institute of Life Sciences, The Hebrew University of Jerusalem, Israel; 16.05.2002
- Prof. Dr. Jorge **Cortes**, Universidad de Costa Rica, Centro de Investigaciones Marinas e Limnológicas (CIMAR); 12.02.-12.03.2002; 21.02.2002: Colloquium for

VISITORS AND GUEST RESEARCHERS

- tropical marine ecology: »Marine environments and research in Costa Rica«
- Prof. Dr. Maria Iracilda **da Cunha Sampaio**, UFPa/MADAM Projekt, Campus Universitário de Belém, Brasilien; 08.-09.09.2000
- Dr. Rokhmin **Dahuri**, Director General, Ministry of Maritime Affairs and Fisheries, Jakarta Selatan, Indonesien; 07.11.2000; 07.12.2001
- Dr. Ir. Darnas **Dana**, Vice Rector, Bogor Agricultural University, Bogor, Indonesien; 02.-08.01.2001
- Dr. Boedi **Darma**, Attache Education and Culture, Embassy of the Republic of Indonesia, Berlin ; 15.11.2000: German-Indonesian Cooperation in Marine Sciences and Geosciences – A bilateral meeting for project development
- Wang **Dianchang**, Deputy Director General, Department of Science and Technology, SOA, Beijing, China, German-Chinese Steering Committee of Marine Science and Geotechnologies; 19.10.2001: Besuch des German-Chinese Steering Committee of Marine Science and Geotechnologies
- Dr. Oliver **Diehl**, Internationales Büro des DLR/BMBF, Bonn; 16.01.2002; 25.02.-01.03.2002: Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«
- Dr. Marlene **Diekmann**, Beratungsgruppe Entwicklungsorientierte Agrarforschung (BEAF), Bonn; 14.09.2000
- Dr. Nicolas **Dittert**, Universität Brest, Brest; 19.11.2001
- Yusuf **Djajadihardja**, Competence Manager of Marine Division, Agency for the Assessment and Application of Technology – BPPT, Jakarta, Indonesien; 12.-18.11.2000: German-Indonesian Cooperation in Marine Sciences and Geosciences – A bilateral meeting for project development
- Dr. Walter **Dörhage**, Senator für Bildung und Wissenschaft, Bremen; 10.12.2001
- Dr. Magdy Mohammad **Dowidar**, National Institute of Oceanography and Fisheries NIOF, Alexandria, Ägypten; 05.04.-16.04.2000; 28.04.-17.05.2000; 15.08.-26.09.2000
- Tan **Duo**, Deputy Director General, First Institute of Oceanography, SOA, Qingdao, China, German-Chinese Steering Committee of Marine Science and Geotechnologies; 19.10.2001: Besuch des German-Chinese Steering Committee of Marine Science and Geotechnologies
- B.Sc. Van Thang **Duong**, Institute of Oceanography, Nha Trang, Vietnam; 23.09.-21.11.2002
- Dr. Gisela **Dybowski**, Bundesinstitut für Berufsbildung (BIBB), Bonn; 25.01.2002
- Dr. Hans **Eggers**, BMBF, Bonn; 18.09.2001; 22.05.2002: BMBF-Veranstaltung zur Wissenschaftlich-Technologischen Zusammenarbeit mit Brasilien
- Frau **Eichler**, Landesamt für Entwicklungszusammenarbeit, Bremen; 12.08.2002; 04.-08.11.2002: Training – education – research in the field of management of coastal and marine resources – Cooperation between partners from South India and Bremen, Germany
- Dr. Mohammed **El-Zibdeh**, Marine Science Station, Aqaba, Jordanien ; 23.06.-10.07.2000; 28.-31.05.2001
- M.Sc. Sri **Fatimah**, UNRI, Universität Riau, Indonesien; 05.02.-05.03.2002; 25.02.2002: Colloquium for tropical marine ecology: »Determinant factors of information seeking related to development issues among working women«
- Dr. Susanne **Faulhaber**, Deutsche Forschungsgemeinschaft Bonn; 11.12.2000; 08.02.2002
- Prof. Dr. José Francisco **da Fonseca Ramos**, UFPa/MADAM Projekt, Campus Universitário de Belém, Brasilien; 11.-15.09.2000
- Dr. Antonio **de Fontes Pereira**, Institute for Fisheries Research, Luanda, Angola; 29.-30.05.2000: BENEFIT, Gründungssitzung des Steering Committee
- Dr. Martin **Foth**, Carl Duisberg Gesellschaft (CDG), Bremen; 23.01.2002; 12.08.2002; 27.11.2002: Arbeitstreffen zur deutsch-kubanischen Kooperation
- Dr. Martin **Foth**, Internationale Weiterbildung und Entwicklung GmbH, Bremen; 04.-08.11.2002: Training – education – research in the field of management of coastal and marine resources – Cooperation between partners from South India and Bremen, Germany
- Dr. Angela **Franz**, MediaCompany, Bonn; 14.09.2000
- Dr. Jan Stefan **Fritz**, Internationales Büro, BMBF, Bonn; 14.08.2002
- Dr. Rainer **Fröse**, IfM Kiel; 12.12.2002:

VISITORS AND GUEST RESEARCHERS

- Colloquium for tropical marine ecology: »FishBase: a Tool for Tropical Fisheries Biologist«
- M.Sc. Tawfiq **Froukh**, Marine Science Station, Aqaba, Jordanien, Ph.D. student; 16.06.-18.08.2000; 19.07.2000: Colloquium for tropical marine ecology: »Fish larvae in the Gulf of Aqaba, Red Sea«
- Dr. Richard **Fuchs**, International Foundation for Science, Stockholm, Schweden; 06.04.2000
- Prof. Tsutomu **Fuse** (Japan), IOI Executive Council; 04.-06.09.2001: IOI-Executice Council Meeting
- Dr. Gernot **Gad**, DFG Bonn; 08.02.2002
- Basri M. Ganie, BPPT, Jakarta, Indonesien; 01.-05.08.2002
- Prof. Dr. Radi A. **Gany**, Rector Hasanuddin University (UNHAS), Makassar, Indonesien; 27.03.2002
- Cecil **Giddey**, Marine and Coastal Management, Capetown, South Africa; 28.08.-15.09.2000: »Early life history of fishes«, BENEFIT-Kurs mit Teilnehmern aus Angola, Namibia und Südafrika
- Dr. Josep Maria **Gili i Sardá**, Instituto de Ciencies del Mar de Barcelona, Spanien; 08.-23.12.2002
- Hugh **Govan**, TUVA Foundation, Costa Rica; 05.06.2000: Colloquium for tropical marine ecology: »The quality of qualitative data: Involving the fishermen in research for the conservation of the Danube sturgeon populations«
- Dr. V. S. **Gowri**, Institute for Ocean Management – Anna University, Chennai, Indien; 04.-08.11.2002: Training – education – research in the field of management of coastal and marine resources – Cooperation between partners from South India and Bremen, Germany
- Dr. Stewart **Grant**, ICLARM, Program Leader, Biodiversity and Genetic Resources, Research Program; 14.09.2000
- Dr. **Grollmann**, Geschäftsführer, Bremer Innovations-Agentur (BIA), Bremen; 24.07.2002
- Dr. Hans-Peter **Grossart**, Institut für Chemie und Biologie des Meeres, Universität Oldenburg; 25.02.-01.03.2002: Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«
- M.Sc. Elena **de la Guardia**, Centro de Investigaciones Marinas (CIM) Universidad de la Habana, Havanna, Kuba; 25.02.-01.03.2002: Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«
- Dr. Venkat R. **Gunale**, University of Pune, Indien; 31.05.2000: Colloquium for tropical marine ecology: »Biomonitoring of Pune River Water Quality«
- Dr. M.V.S. **Guptha**, National Institute of Oceanography, Geological Department, Dona Paula, Goa, Indien; 24.10.-15.11.2002
- Herr **Hamacher**, Wissenschaftsjournalist, Harburger Anzeiger und Nachrichten, Hamburg; 07.09.2000
- Dr. Hashali **Hamukuaya**, Ministry for Marine Research, Windhoek, Namibia; 29.-30.05.2000: BENEFIT, Gründungssitzung des Steering Committee
- Dr. **Hansen**, Deutsche Forschungsgemeinschaft Bonn; 11.12.2000
- Dr. Alexander P. **Hansen**, German Advisor to the Minister of State for Research and Technology, Jakarta, Indonesien; 24.07.2002
- Ir. Sriworo **Hariyono**, Deputy Minister for Research, Science and Technology Programs, MEN RISTEC, Indonesien; 27.06.2001: 2nd Steering Committee Meeting of DKP-RISTEK-BMBF Delegation on Earth and Ocean Sciences
- Dr. Joachim **Harms**, Projektträger Warnemünde; 16.06.2000: Begutachtung der Kontaktstelle; 22.05.2002: BMBF-Veranstaltung zur Wissenschaftlich-Technologischen Zusammenarbeit mit Brasilien
- Frau **Hasenmüller**, International Office, Universität Bremen; 27.11.2002: Arbeitstreffen zur deutsch-kubanischen Kooperation
- Prof. Gotthilf **Hempel**, Bremen Marketing, Bremen; 07.12.2000: Informationsveranstaltung für die Delegation des International Ocean Institute (IOI) unter Leitung von Prof. Elisabeth Mann Borgese; 22.05.2001: ZMT-Forum for Partnership in Research and Education 2001 unter der Schirmherrschaft von Bundesforschungsministerin Edelgard Bulmahn, BMBF, Bonn; 04.12.2002: Besuch Seiner Exzellenz, des Botschafters der Republik Indien in Berlin, Herrn T.C.A. Rangachari, Gesprächsrunde mit Vertretern des ZMT, UFT, ZARM und Geowissenschaften

VISITORS AND GUEST RESEARCHERS

- M.Sc. Marcelino **Hernández**, Instituto de Oceanología, Havanna, Kuba; 25.02.-01.03.2002: Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«
- Dr. Bambang **Herunadi**, Agency for the Assessment and Application of Technology - BPPT, Jakarta, Indonesien; 27.08.-05.09.2000; 05.-16.03.2001; 06.03.2001: Colloquium for tropical marine ecology: »Physical Oceanography of Indonesian Waters«
- Dr. Charles **Hocutt**, BENEFIT-Office, Swakopmund, Namibia; 29.-30.05.2000
- PD Dr. Christiane **Höller**, Institut für Umweltmedizin, Umwelttoxikologie und Hygiene, Universität Kiel; 25.02.-01.03.2002: Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«
- E.-M. **Hongsernant**, Internationales Büro des BMBF beim DLR, Bonn, German-Chinese Steering Committee of Marine Science and Geotechnologies; 19.10.2001: Besuch des German-Chinese Steering Committee of Marine Science and Geotechnologies
- Dr. Chr. **Humborg**, Dep. of Systems Ecology, Stockholm University, Stockholm; 20.11.2002: Colloquium for tropical marine ecology: »DSi and main element dynamics in subarctic Swedish rivers: The significance of vegetation on nutrient land-sea fluxes«
- Dr. Markus **Hüttel**, Max Planck Institut für Marine Mikrobiologie, Bremen; 25.02.-01.03.2002: Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«
- Dr. Maria Elena **Ibarra**, Centro de Investigaciones Marinas (CIM) Universidad de la Habana, Havanna, Kuba; 25.02.-01.03.2002: Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«
- Prof. Dr. Victoria **Isaac**, UFPa/MADAM Projekt, Campus Universitário de Belém, Brasilien; 08.-26.09.2000
- Dr. Rahardjo **Jamtomo**, Ambassador of the Republic of Indonesia, Indonesien; 07.12.2001
- Dr. Daniel **Jamu**, ICLARM, Project Leader Aquaculture Research and Development for Smallholder Farms in Southern Africa; 14.09.2000
- Susan **Jones**, Marine and Coastal Management, Kapstadt, Südafrika; 03.-30.10.2002
- Peter **Jordaan**, Maribus Industries (Pty) Ltd, South Africa; 14.-22.12.2002
- Arzhang **Kahlili**, MPI marine Mikrobiologie, Bremen; 27.11.2002: Arbeitstreffen zur deutsch-kubanischen Kooperation
- Dr. Kuria K. **Kairu**, International Ocean Institute, Kenia; 07.12.2000: Informationsveranstaltung für die Delegation des International Ocean Institute (IOI) unter Leitung von Prof. Elisabeth Mann Borgese; 04.-06.09.2001: IOI-Executive Council Meeting
- Dr. **Kannen**, FTZ-Westküste, Büsum; 22.05.2002: BMBF-Veranstaltung zur Wissenschaftlich-Technologischen Zusammenarbeit mit Brasilien
- Prof. Dr. I. **Karunasagar**, Head of College of Fisheries, Department of Fishery Microbiology, University of Agricultural Sciences, Mangalore, Indien; 04.-08.11.2002: Training – education – research in the field of management of coastal and marine resources – Cooperation between partners from South India and Bremen, Germany
- Dr. Hodaka **Kawahata**, Geological Survey of Japan, Ibaraki, Japan; 31.03.2001
- Prof. Derek **Keats** (South Africa), IOI Executive Council; 04.-06.09.2001: IOI-Executive Council Meeting
- Dr. Renee **van Kessel**, Netherlands Foundation for the Advancement of Tropical Research (WOTRO), Den Haag; 12.06.2002
- Dr. H. **Keune**, BMBF, Bonn; 27.06.2001: 2nd Steering Committee Meeting of DKP-RISTEK-BMBF Delegation on Earth and Ocean Sciences; 19.03.2002
- Dr. Maroof **Khalaf**, Marine Science Station, Aqaba, Jordanien; 20.07.-08.08.2000
- Arzhang **Khalili**, Max Planck Institut für Marine Mikrobiologie, Bremen; 25.02.-01.03.2002: Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«
- Dr. Volker **Koch**, Centro de Estudios Costeros, Pto. Acapulco, Puerto San Carlos, Mexico; 28.05.-05.06.2001
- Ir. Ardito **Kodijat**, Deputy Assistant Minister for International Affairs, State Minister for Research and Technology, Jakarta,

VISITORS AND GUEST RESEARCHERS

- Indonesien; 12.-18.11.2000: German-Indonesian Cooperation in Marine Sciences and Geosciences – A bilateral meeting for project development
- Dr. R. **Koppelman**, Inst. für Hydrobiologie und Fischereiwissenschaft, Hamburg; 05.12.2002: Colloquium for tropical marine ecology: »The role of zooplankton for the carbon flux in the Arabian Sea«
- Dr. K.M. **Krishnappa**, Vice Chancellor, University of Agricultural Sciences, Mangalore, Indien; 04.-08.11.2002: Training – education – research in the field of management of coastal and marine resources – Cooperation between partners from South India and Bremen, Germany
- Prof. Dr. **Kuhlen**, Universität Konstanz, Informationswissenschaften; 16.06.2000: Begutachtung der Kontaktstelle
- Prof. Gunnar **Kullenberg**, International Ocean Institute, Malta; 07.12.2000: Informationsveranstaltung für die Delegation des International Ocean Institute (IOI) unter Leitung von Prof. Elisabeth Mann Borgese; 04.-06.09.2001; IOI-Executice Council Meeting
- Prof. Dr. H. **Lange**, Artec, Bremen; 04.-08.11.2002: Training – education – research in the field of management of coastal and marine resources – Cooperation between partners from South India and Bremen, Germany
- Dr. Thomas **Leipe**, IOW, Warnemünde; 22.05.2002: BMBF-Veranstaltung zur Wissenschaftlich-Technologischen Zusammenarbeit mit Brasilien
- Willi **Lemke**, Senator für Bildung und Wissenschaft, Bremen; 22.05.2001: ZMT-Forum for Partnership in Research and Education 2001 unter der Schirmherrschaft von Bundesforschungsministerin Edelgard Bulmahn, BMBF, Bonn
- Frau **Lenzer**, Wissenschaftsjournalistin, Rheinische Post, Düsseldorf; 07.09.2000
- Dr. Pedro **León Azofoifa**, Director del Centro Nacional de Alta Tecnología »Franklin Chang« (CENAT), San José, Costa Rica; 18.09.2002
- Prof. Dr. Gerd **Liebezeit**, Forschungszentrum Terramare, Wilhelmshaven; 23.01.2002; 21.02.2002; 18.06.2002
- Prof. Dr. Marcondes **Lima Da Costa**, Department of Geochemistry and Petrology, Geosciences Center – Federal University of Pará (UFPA), Belém/Pará, Brasilien; 24.-25.10.2002
- M.Sc. Mirtha **Llanio**, Instituto de Oceanología, Havanna, Kuba; 25.02.-01.03.2002: Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«
- Frau **Luhdo**, Wissenschaftsjournalistin, Ostsee-Zeitung, Rostock; 07.09.2000
- M.Sc. Moirah Paula **Machado de Menezes**, UFPa/MADAM Projekt, Campus Universitário de Belém, Brasilien, Ph.D. student; 01.-20.05.2000; 08.-17.09.2000
- Dr. D. **Macinthosh**, University of Arhus, Dänemark; 17.-18.01.2000
- Prof. Elisabeth **Mann Borgese**, International Ocean Institute, Halifax, Kanada; 07.12.2000: Informationsveranstaltung für die Delegation des International Ocean Institute (IOI) unter Leitung von Prof. Elisabeth Mann Borgese; 04.-06.09.2001: IOI-Executice Council Meeting
- Victor H. **Marin**, Universidad de Chile; 12.06.2000: Colloquium for tropical marine ecology: »A spatially explicit model of the Antarctic krill fishery«
- Prof. Eduardo **Marone**, Brasilien; 07.12.2000: Informationsveranstaltung für die Delegation des International Ocean Institute (IOI) unter Leitung von Prof. Elisabeth Mann Borgese
- M.Sc. Juan Carlos **Martínez**, Instituto de Oceanología, Havanna, Kuba; 25.02.-01.03.2002: Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«
- Dr. Farid **Ma'ruf**, Director of Research and Living Resources Exploration, Ministry of Maritime Affairs and Fisheries, Jakarta Selatan, Indonesien; 12.-18.11.2000: German-Indonesian Cooperation in Marine Sciences and Geosciences - A bilateral meeting for project development
- Prof. Dr. Roberto **Mayerle**, Corelab, Universität Kiel; 22.05.2002: BMBF-Veranstaltung zur Wissenschaftlich-Technologischen Zusammenarbeit mit Brasilien; 18.06.2002
- Professora Marleni **Marques-Toigo**, Universidade Federal do Rio Grande do Sul, Instituto de Geociências – Curso de Pós-Graduação em Geociências, Porto Alegre, Brasilien; 28.-30.08.2002
- Humberto **Medina**, Landesamt für Entwicklungszusammenarbeit, Bremen; 25.02.-

VISITORS AND GUEST RESEARCHERS

- 01.03.2002: Cuban-German Workshop
»Towards a sustainable management and
conservation of Cuban coastal ecosys-
tems«
- Dr. Claudia **Mendo**, Universidad Nacional
Agraria La Molina, Lima, Peru;
04.-05.01.2001
- Dr. Jaime **Mendo Aguilar**, Universidad
Nacional Agraria La Molina, Lima, Peru;
04.06.-03.07.2000, 05.-18.08.2001
- Karin **Meyer**, DAAD Stipendiatin, Univer-
sidade Federal do Rio Grande do Sul,
Universität Tübingen; 28.-30.08.2002
- Dr. **Meyer**, Bundesforschungsanstalt für
Fischerei, Hamburg; 04.-08.11.2002: Train-
ing – education – research in the field
of management of coastal and marine re-
sources – Cooperation between partners
from South India and Bremen, Germany
- M.Sc. Elena **Miravet**, Instituto de Ocean-
ología, Havana, Kuba; 25.02.-01.03.2002:
Cuban-German Workshop »Towards a
sustainable management and conservation
of Cuban coastal ecosystems«
- Prof. Dr. Rubiyanto **Misman**, Rector of Uni-
versity Jendral Soedirman – UNSOED,
Purwokerto, Indonesien; 12.-18.11.2000:
German-Indonesian Cooperation in
Marine Sciences and Geosciences – A bi-
lateral meeting for project development;
20.-21.05.2002
- Dr. Alvaro **Morales**, Universidad de Costa
Rica, San José, Centro de Investigaciones
Marinas e Limnológicas (CIMAR); 10.07.-
08.08.2000
- Prof. Dr. Osmund D. **Mwandemele**, Dekan,
UNAM, Windhoek, Namibia; 10.05.2000
- Ursula **Niebling**, Senator für Bildung und
Wissenschaft, Bremen; 27.11.2002:
Arbeitstreffen zur deutsch-kubanischen
Kooperation
- Dr. Jon **Norberg**, Dept. of Systems Ecolo-
gy, Stockholm University; 06.05.2002:
Colloquium for tropical marine ecology:
»Analysing resilience in socio-ecological
systems (SES's)«
- Alfredo **Novoa Pena**, Botschafter der Repu-
blik Peru, Berlin; 07.10.2002
- M.Sc. Sutopo **Purwo Nugroho**, BPPT,
Jakarta, Indonesien; 18.09.-16.10.2002
- M.Sc. Claudia **Nunes**, UFPa/MADAM
Projekt, Campus Universitário de Belém,
Brasilien, Ph.D. student; 27.08.-28.11.2001
- Nidal **Odat**, Marine Science Station,
Aqaba, Jordanien, M.Sc. student;
- 10.04. - 09.06.2000
- Evelyn **Oetjen**, Senator für Bildung und Wis-
senschaft, Bremen; 21.03.2002
- Dr. **Oliouline**, International Ocean Institute
(IOI), Malta; 12.06.2002
- Herr **Ollig**, BMBF, Bonn, German-Chinese
Steering Committee of Marine Science
and Geotechnologies; 19.10.2001: Besuch
des German-Chinese Steering Commit-
tee of Marine Science and Geotechnolo-
gies
- Dr. Francesco **Pagés**, Instituto de Ciencias
del Mar, Barcelona; 08.01.2002
- Tito Eko **Pararto**, M.Sc., Agency for the
Assessment and Application of Tech-
nology (BPPT), Jakarta, Indonesien;
11.11.-15.12.2000: German-Indonesian
Cooperation in Marine Sciences and Ge-
osciences - A bilateral meeting for project
development
- Dr. G.M. **Parthiban**, National Institute
of Oceanography, Geological Depart-
ment, Dona Paula, Goa, Indien; 24.10.-
15.11.2002
- Dr. Jürgen **Pätzold**, Universität Bremen;
22.05.2002: BMBF-Veranstaltung zur
Wissenschaftlich-Technologischen Zu-
sammenarbeit mit Brasilien
- Veronique **Plocq-Fichelet**, SCOPE Secreta-
riat, Paris; 08.-10.11.2002
- Dr. Denise **Pope**, Department of Animal
Behaviour, University of Copenhagen;
13.03.2002: Colloquium for tropical marine
ecology: »Communication and mating
behaviour of fiddler crabs (genus Uca)«
- Frau **Powell**, Wissenschaftsjournalistin,
3SAT, Mainz; 07.09.2000
- Dr. Mark **Prein**, ICLARM, Program Leader,
Freshwater Resources Research Program;
14.09.2000
- Dr. Kim **Prochazka**, Director International
Ocean Institute, Southern Africa, Univer-
sity of the Western Cape, South Africa;
12.-13.08.2002
- Mr. Herie **Purwanto**, BPPT, Jakarta, Indone-
sien; 19.02.-16.03.2001
- Ida Bagus **Putujandra**, General Consul,
Indonesisches Generalkonsulat Hamburg;
22.04.2002
- Zhang **Qing**, Deputy Director Division of
Science & Technology, Second Institute of
Oceanography, SOA, Hangzhou, China,
German-Chinese Steering Committee
of Marine Science and Geotechnologies;
19.10.2001: Besuch des German-Chinese

VISITORS AND GUEST RESEARCHERS

- Steering Committee of Marine Science and Geotechnologies
- Dr. Nasser Saber Abdel **Rahman**, National Institute of Oceanography and Fisheries NIOF, Suez, Ägypten; 14.02.-26.03.2000
- Prof. Dr. D. **Rajaseenan**, Cochin University of Science and Technology, Kerala, Indien; 21.-25.08.2000
- Dr. S. **Ramachandran**, Institute for Ocean Management – Anna University, Chennai, Indien; 04.-08.11.2002: Training – education – research in the field of management of coastal and marine resources – Co-operation between partners from South India and Bremen, Germany
- Herr T.C.A. **Rangachari**, Botschafter der Republik Indien in Berlin; 04.12.2002: Besuch des ZMT und Gesprächsrunde mit Vertretern des ZMT, UFT, ZARM und Geowissenschaften
- Mohammed **Rasheed**, Marine Science Station, Aqaba, Jordanien; 03.04.2000
- Dr. K. **Reise**, Alfred-Wegener-Institute, Bremerhaven; 04.-08.11.2002: Training – education – research in the field of management of coastal and marine resources Cooperation between partners from South India and Bremen, Germany
- Dr. Michael H. **Rieß**, Büro für Integrierten Umweltschutz: Leiter des CDG-Kurses »Küstenmanagement«; 03.05.2000
- Prof. Dr. Jackson **Roehrig**, Institut für Tropentechnologie der Fachhochschule Köln; 25.02.-01.03.2002: Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«
- Prof. Dr. Harald **Rosenthal**, Hamburg; 22.05.2002: BMBF-Veranstaltung zur Wissenschaftlich-Technologischen Zusammenarbeit mit Brasilien
- Catarina **Ruby**, Institute of Sea Fisheries Research, Luanda, Angola; 28.08.-15.09.2000: »Early life history of fishes«, BENEFIT-Kurs mit Teilnehmern aus Angola, Namibia und Südafrika
- Dr. Vladimir **Ryabinin**, IOI Executive Director, Malta; 04.-06.09.2001: IOI-Executive Council Meeting
- Dr. Joko **Samiaji**, University of Riau, Faculty of Fishery and Marine Science, Pekanbaru, Indonesien; 24.04.2002: Colloquium for tropical marine ecology: »Feasibly cooperations in marine science between University of Riau and German Institutes«; 02.03.2002-28.02.2003
- Ing. Martin **Sander**, Fa. Sander, Uetze-Elze; 21.10.2002
- Rosa Maria **Saraiva**, Bragança, Brasilien; 14.09.-25.10.2001
- Areef **Sardar**, National Institute of Oceanography, Goa, Indien; 02.-23.07.2001
- Prof. Dr. **Sasekumar**, University of Malaysia, Kuala Lumpur, Malaysia; 09.04.-30.05.2001; 26.04.2001: Colloquium for tropical marine ecology: »Mangrove systems in Malaysia«; 03.05.2001: Colloquium for tropical marine ecology: »Environmental problems in the Straits of Malacca«; 15.05.2001: Colloquium for tropical marine ecology: »Mudflat ecology in Malaysia«
- Dr. **Sawangwong**, Thailand, International Affairs of Burapha University, Cholburi, Thailand; 03.-18.05.2002
- PD Dr. Sigrid **Schiel**, Alfred-Wegener-Institut, Bremerhaven; 27.02.2002
- Dr. Ekhard **Schmidt**, DAAD; 25.02.-01.03.2002: Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«
- Prof. Dr. Horacio **Schneider**, UFPa/MADAM Projekt, Campus Universitário de Belém, Brasilien; 08.-09.09.2000; 10.05.-10.08.2002
- Dr. Martin **Schneider**, UNAM, Windhoek, Namibia; 10.05.2000
- Honorarkonsul Artur **Schnitger**, Bremen; 07.10.2002
- Dr. **Schröder**, Bundesforschungsanstalt für Fischerei, Hamburg; 04.-08.11.2002: Training – education – research in the field of management of coastal and marine resources – Cooperation between partners from South India and Bremen, Germany
- Dr. Gerlind **Schütte**, Senator für Wirtschaft und Häfen, Ref. Technologie und Innovation, Bremen; 16.07.2002
- Dr. Ralf **Schwaborn**, Departamento de Oceanografia, Universidade Federal de Pernambuco, Recife, Brasilien; 24.05.-08.06.2002: BMBF-Veranstaltung zur Wissenschaftlich-Technologischen Zusammenarbeit mit Brasilien
- Dr. Neville **Seijd**, Chief Executive Officer, BENEFIT, Swakopmund, Namibia; 02.-05.06.2002
- Dr. Bambang **Setiadi**, Deputy Chairman BPPT, Jakarta, Indonesien; 31.07.-06.08.2002

VISITORS AND GUEST RESEARCHERS

- Dr. Boedi Darma **Sidi**, Cultural Attaché, Embassy of Indonesia, Indonesien; 07.12.2001
- Dr. **Soeprihono**, Director of Segara Anakan Conservation and Development Project Cilacap, Indonesien; 12.-18.11.2000: German-Indonesian Cooperation in Marine Sciences and Geosciences - A bilateral meeting for project development
- Dr. Indroyono **Soesilo**, Chairman, Agency for Marine Research and Fisheries, DKP, Indonesien; 27.06.2001: 2nd Steering Committee Meeting of DKP-RISTEK-BMBF Delegation on Earth and Ocean Sciences; 07.12.2001
- Dr. K. **Soman**, Head, Resources Analysis Division, Centre for Earth Science Studies, Akkulam, Indien; 18.07.-01.08.2001; 04.-08.11.2002: Training – education – research in the field of management of coastal and marine resources – Cooperation between partners from South India and Bremen, Germany
- Cidiane **Sousa-Soares**, UFPa, Campus Universitário de Belém, Brasilien, Bachelor student; 31.08.-15.10.2001
- Prof. Robin **South** (South Pacific, Fiji), IOI Executive Council; 04.-06.09.2001: IOI Executive Council Meeting
- Prof. Dr. Karl **Stattegger**, Universität Kiel; 08.02.2002
- Dr. Christian **Stienen**, BMBF, Bonn; 21.03.2002
- Dr. Wolfgang **Stotz**, Universidad Catolica del Norte, Coquimbo, Chile; 10.05.-16.06.2001; 06.06.2001: Colloquium for tropical marine ecology: »Experiences with a co-management project with the diving-fishery in Chile«
- Dr. Dieter **Strohm**, Geschäftsführer RF Reedereigemeinschaft Forschungsschiffahrt, Bremen; 17.01.2002
- Dr. Awal **Subandar**, Agency for the Assessment and Application of Technology – BPPT, Jakarta, Indonesien; 27.08.-05.09.2000
- M. Sc. Nana **Sudiana**, Ir., Agency for the Assessment and Application of Technology (BPPT), Jakarta, Indonesien; 11.11.-15.12.2000: German-Indonesian Cooperation in Marine Sciences and Geosciences - A bilateral meeting for project development; 18.09.-16.10.2002
- Dr. Isdy **Sulistyo**, Purwokerto University, Indonesien; 12.-26.08.2002
- Dr. Ono Kurnaen **Sumardiharga**, National Academy of Sciences – LIPI, Research and Development Centre for Oceanology, Jakarta, Indonesien; 12.-18.11.2000: German-Indonesian Cooperation in Marine Sciences and Geosciences – A bilateral meeting for project development
- Dr. **Sylvester**, Programmleiter »Postgraduate Studies with Relevance to Developing Countries«, DAAD, Bonn; 31.10.2001
- M.Sc. Claudio **Szlafsztein**, UFPa/MADAM Projekt, Campus Universitário de Belém, Brasilien, Ph.D. student; 08.-14.09.2000; 11.04.2001: Colloquium for tropical marine ecology: »Long-term coastal management - state of Pará, Brazil«; 07.11.2001: Colloquium for tropical marine ecology: »Sea level and response measures on the NE coast of the State of Pará«; 07.10.-09.11.2002; 15.05.-28.06.2002; 12.11.-10.12.2002
- T. **Tanci**, Marine and Coastal Management, Capetown, South Africa; 28.08.-15.09.2000: »Early life history of fishes«, BENEFIT-Kurs mit Teilnehmern aus Angola, Namibia und Südafrika
- Dr. Fernand **Tchuenguem**, Kamerun; 24.07.2002
- Dr. Guy F. de **Téramond-Peralta**, Universidad de Costa Rica, San José, Costa Rica; 18.09.2002
- Dr. Stefan **Thiesen**, Mind Quest, Selm; 14.12.2000: Colloquium for tropical marine ecology: »Tropical ocean fertilization for atmospheric CO₂ sequestration: serious option or technological folly?«
- Dr. H. **Thomas**, Nederlands Instituut voor Onderzoek der Zee (NIOZ), Texel; 01.10.2002
- Prof. Dr. Jürgen **Timm**, Rektor der Universität Bremen; 22.05.2001: ZMT-Forum for Partnership in Research and Education 2001 unter der Schirmherrschaft von Bundesforschungsministerin Edelgard Bulmahn, BMBF, Bonn
- M.Sc. Ernesto **Tristá**, Instituto de Oceanología, Havanna, Kuba; 25.02.-01.03.2002: Cuban-German Workshop »Towards a sustainable management and conservation of Cuban coastal ecosystems«
- Dr. **Unluate**, UNESCO, Paris; 20.03.2002
- Dr. M.N. **Venugopal**, University of Agricultural Sciences, College of Fisheries, Mangalore, Indien; 25.01.2001: Colloquium for tropical marine ecology: »Indian marine fisheries – an overview«; 08.02.2001:

VISITORS AND GUEST RESEARCHERS

- Colloquium for tropical marine ecology: »Molecular approaches for the diagnosis of microbial diseases of shrimps«
- Dr. Jennifer **Verduin**, Hamburg; 20.02.2001: Colloquium for tropical marine ecology: »Hydrodynamics and pollination in seagrass habitats of the coast of W.-Australia«
- Dr. Hans **Verheye**, Marine and Coastal Management, Capetown, South Africa; 28.08.-15.09.2000: »Early life history of fishes«, BENEFIT-Kurs mit Teilnehmern aus Angola, Namibia und Südafrika; 22.09.-07.10.2001; 03.-30.10.2002; 22.10.2002: Colloquium for tropical marine ecology: »Do diatoms depress copepod egg hatching, thus challenging the classical view of energy flow in (marine) aquatic food webs?«
- Fernando **Vijayan**, National Institute of Oceanography, Goa, Indien; 02.-23.07.2001
- Prof. Dr. Syarifuddin **Wahid**, UNHAS, Indonesien; 27.03.2002
- Dr. Pedro **Walfir Souza Filho**, Belém, Brasilien; 28.04.-27.05.2002
- Dr. Uwe **Waller**, Institut für Meereskunde, Kiel; 21.10.2002
- Dr. Joseph **Warioba**, IOI President, Tanzania; 04.-06.09.2001: IOI-Executive Council Meeting
- Prof. Dr. G. **Wefer**, Geowissenschaften, Universität Bremen; 04.12.2002: Besuch Seiner Exzellenz, des Botschafters der Republik Indien in Berlin, Herrn T.C.A. Rangachari, Gesprächsrunde mit Vertretern des ZMT, UFT, ZARM und Geowissenschaften
- Prof. Hou **Wenfeng**, International Ocean Institute, China; 07.12.2000: Informationsveranstaltung für die Delegation des International Ocean Institute (IOI) unter Leitung von Prof. Elisabeth Mann Borgese
- Prof. Dr. Friedrich **Widdel**, MPI Bremen; 08.02.2002
- Dr. M. **Wiebelt**, Institut für Weltwirtschaft an der Universität Kiel, Abteilung Umwelt- und Ressourcenmanagement; 16.06.2000: Begutachtung der Kontaktstelle
- Dr. Meryl J. **Williams**, ICLARM, Director General; 14.09.2000
- Dr. Ivor **Willimans**, NIOZ, Texel; 28.11.2002: Colloquium for tropical marine ecology: »Macroalgae overgrowth of Caribbean reefs: the roles of overfishing, management, and declining coral cover«
- Prof. Dr. **Winand**, Gesamthochschule Kassel, Lehrstuhl für Wirtschaftsinformatik; 16.06.2000: Begutachtung der Kontaktstelle
- Elke **Wolff**, Bundesministerium für Technische Zusammenarbeit, Bonn; 14.09.2000
- Dr. Ying **Wu**, State Key Laboratory of Estuarine and Coastal Research, East China Normal University, Shanghai, China; 07.03.-05.05.2002; 03.04.2002: Colloquium for tropical marine ecology: »Isotope variability of particulate organic matter at the PN section in the East China Sea«
- Fan **Xiaoli**, Deputy Director General, Department of International Cooperation, State Oceanic Administration (SOA), Beijing, China, German-Chinese Steering Committee of Marine Science and Geotechnologies; 19.10.2001: Besuch des German-Chinese Steering Committee of Marine Science and Geotechnologies
- Prof. Alexander **Yankov** (ITLOS, Germany and Bulgaria); 04.-06.09.2001: IOI-Executive Council Meeting
- Dr. Edy **Yuwono**, Tropical Ecology Centre, Jendral Soedirman University – UNSOED, Purwokerto, Indonesien; 12.-18.11.2000: German-Indonesian Cooperation in Marine Sciences and Geosciences – A bilateral meeting for project development
- Dr. Jochen **Zeil**, Australian National University, Canberra, Australien; 16.08.2001
- Claudio **Zettel**, IB-DLR, Köln; 22.05.2002: BMBF-Veranstaltung zur Wissenschaftlich-Technologischen Zusammenarbeit mit Brasilien
- Prof. Dr. Jing **Zhang**, State Key Laboratory of Estuarine & Coastal Research, East China Normal University, Shanghai; 15.-30.09.2000

Press Review

MADAM

Planetopia, PRO 7, Mai 2000

- »Krabbenfang im Mangrovenwald. Tropisches Ökosystem liefert Brasiliens Küstenbewohnern Nahrung und Einkommen«, Weser Kurier, 22.04.2000
- »Die amphibischen Wälder. Mangroven – Bindeglied zwischen Land und Meer«, Neue Zürcher Zeitung, 20.02.2002
- »Mangrovenforschung geht in die dritte Runde. Zentrum für Marine Tropenökologie erhält Fördergeld vom Bundesforschungsministerium«, Kreiszeitung, 14.09.2002
- »Bund unterstützt Bremer Projekt am Amazonas. Mangrovegebiet wird weiter erforscht«, Delmenhorster Kreisblatt, 01.10.2002

RSP/Jordanienprojekt

- »Das Red-Sea-Programm – Frieden für die Forschung, Forschung für den Frieden«, NDR 4, Sendereihe LOGO, 21.01.2000, Ute Hempelmann
- »Kundschafter in heikler Mission. Deutschland will mit gemeinsamen Forschungsprojekten den Friedensprozess in Nahost unterstützen«, Frankfurter Rundschau, 10.07.2001
- »Forschung am Roten Meer«, Deutschland 3, 2001, Beilage, 34-35
- Claudio Richter & Mark Wunsch, Interview über Erforschung der Höhlensysteme in Korallenriffen, Nature Online, 09.10.2001, 20.10.2001 & WDR 5, 16.10.2001
- Fernsehbeitrag in »Buten un Binnen«, Radio Bremen, 18.10.2001
- »Tiefe Einsichten am Riff«, Netzzeitung Forschung -www.netzzeitung.de, 18.10.2001
- »Bremer Forscher lösen Rätsel um Darwins Korallenriff-Paradoxon mit Schlüsselloch-Kamera«, Bild der Wissenschaft online – www.wissenschaft.de, 18.10.2001
- »Blick durchs Schlüsselloch«, wissenschaft-online - www.wissenschaft-online.de, 18.10.2001
- »Auch Korallenriffe haben einen Magen – Mit einem Unterwasser-Endoskop haben deutsche Forscher die Höhlen und Tunnel in Korallenriffen erkundet. Das Team fand viele vermutlich neue Tierarten – und den mutmaßlichen Verdauungstrakt des Ökosystems«, Spiegel online – www.spiegel.de, 18.10.2001

- »Internal exam reveals reefs' hidden depths – Trips through coral keyholes unlock reef mystery«, nature science update – www.nature.com, 18.10.2001
- »Die Korallenriffe durchs Schlüsselloch betrachtet«, nature science update – www.deutsche.nature.com, 18.10.2001
- »Artenreichtum nährt Korallenriffe – Deutsch-jordanisches Forscherteam entdeckt völlig neue Lebensgemeinschaften im Innern von Korallenriffen/Symbiotisches Miteinander sichert Überleben«, Presseinformation der Max-Planck-Gesellschaft 18.10.2001
- »Schwämme versorgen bedrohte tropische Korallenriffe. Bremer Meeresbiologe macht spektakuläre Entdeckung bei einem visuellen Höhlengang im Golf von Aqaba«, Kreiszeitung, 18.10.01
- »Nahrungsfänger im Korallenriff«, Hannoverische Allgemeine Zeitung, 19.10.2001
- »Verborgene Welt im Korallenriff – Bremer Meeresbiologen entschlüsselten Geheimnisse eines bedrohten Ökosystems«, Weser Kurier, 20.10.2001
- »Another World Hides inside Coral Reefs«, Science News 160, 16, 244
- »Schwämme versorgen Korallen mit Nahrung«, Gießener Allgemeine, 07.11.2001
- »Schwämme versorgen Korallenriffe mit Nahrung«, Neue Zürcher Zeitung, 28.11.2001
- »Récifs coralliens: la fin d'un paradoxe?«, La Recherche 10, S. 349. Januar 2002
- »Shy Sponges in the Coral. Scientists get them close-up with CaveCam.« Popular Science, Februar 2002

Reef Check

- »Artenvielfalt in Korallenriffen nimmt ab. Internationale Organisation Reef Check sieht einst typische Fischarten vom Aussterben bedroht«, Weser Kurier, 07.09.2002
- »Korallenriffe in Gefahr. Studie belegt: Fischarten sind vom Aussterben bedroht/ Rettung ist in Schutzgebieten möglich«, Kreiszeitung, 14.09.2002

Clean Aquaculture

- »Aquakultur soll nicht mehr die Umwelt schädigen. Verbundprojekt im Roten Meer wird bis 2005 vom Bundesforschungsministerium gefördert«, Delmenhorster Kreisblatt, 18.06.2002

PUBLIC RELATIONS

»Frisch aus der Ökofarm ins Aquarium – In einem Pilotprojekt züchten deutsche und jordanische Forscher am Roten Meer auf umweltfreundliche Weise Muscheln, Korallen und Fische«, Berliner Zeitung 165, 18.07.2002

El Niño, Peru

»Muscheljagd durch die Wüste«, mare 23, Dezember 2000/ Januar 2001, 11-24

Indonesien-Kooperation

- »2000 Kerjasama Indonesia Jerman di Bidang Marine Sains«, Deutsche Welle Indonesia, 26.3.2000, Marine Research Cooperation, Interview mit Wes Wesman
- »Unsoed-Universitas Bremen Buku Ekologi Kelautan Tropis«, Jakarta, Kompas, 17.08.2000
- »Flora Segara Anakan Hampir Punah Kawasan Hutan Mangrove Terbesar«, Suara Merdeka, 18.08.2000
- »Unsoed-Universitas Bremen Buka Ecologi Kelautan Tropis«, Jakarta Kompas, 18.08.2000
- »Segara Anakan project halted by dispute«, The Jakarta Post, 21.08.2000
- »Baruna Jaya IV Akhiri Riset Bersama Indonesia-Jerman«, Republika, Jumat, 10.11.2000
- A. Kunzmann, Interview, Kerjasama Indonesia Jerman di Bidang Marine Sains. Marine Research Co-operation. Deutsche Welle Indonesien, 26.3.2000
- »Ilmu Kelautan Diajarkan di Sekolah«, Jawa Tengah - Banyumas, Selasa, 27.03. 2001
- »Depdiknas Prioritaskan masalah Kelautan«, Media Indonesia, Selasa, 27.03.2001
- »Mendiknas Minta Sertifikasi Maritim Ditinjau Kembali«, Koran Tempo, Selasa, 27.03.2001
- »Kurang, Perhatian terhadap Bidang Kemaritiman«, Halaman 9, Kompas, Rabu, 28.03.2001
- »Ilmu Kemaritiman akan Masuk Kurikulum«, Republika Rabu, 28.03.2001
- »Marine science research to be assisted by Germany«, The Jakarta Post, 29.03.2001
- »RI, Germany cooperate in marine development«, Observer, 23.03.2001
- »Bremen hilft Indonesien«, Weser Kurier, 05.04.2001
- »Indonesian-German Seminar on Marine Science Research, Development, Capacity Building and Education« at Jenderal

Soedirman University, Purwokerto, 26-29 March 2001, NADI (Nachrichten für Alumni und Deutschland Interessierte, DAAD Außenstelle Jakarta), Oktober 2001, I, 13-17

Vietnam

»Ocean, the centre of attention at Nha Trang«, Viet Nam News, 26.09.2000

ISATEC

- Filmbeitrag über auslandsorientierte Studiengänge in Deutschland, Bremen am Beispiel des ISATEC-Masterprogrammes, Deutsche Welle TV, Sendetermin, November 2000
- »Topfit in Tropen-Ökologie. Masterstudiengang ISATEC der Uni Bremen entlässt erste Absolventen/Weltweite Kooperationen«, Kreiszeitung, 29.09.2001
- »Zierfische, Korallen und andere Exoten. Erster Master-Studiengang in Bremen abgeschlossen«, Weser Kurier, 02.10.2001
- »Bachelor und Master sind überall gefragt. Internationale Studienabschlüsse an der Universität Bremen/Weltweit anerkannt/Kurze Studienzeit«, Weser Kurier, 07.09.2001
- »Über Hürden in die Tropen«, Die Tageszeitung taz, 20.10.2001
- »Tropenökologen mit Master. Universität Bremen vergibt erstmals »Master of Science«, Bremer Uni Schlüssel 65, S. 27, November 2001
- »Auslandserfahrung, kulturelle Vielfalt und interessante Forschung – Foreign Experience, Cultural Variety and Interesting Research«, Highlights – Informationsmagazin der Universität Bremen 5 (9) 22-25, 2002
- »Gütesiegel für Tropenökologen – Gutachter: Einmalig in Deutschland«, Weser Kurier, 03.09.2002
- »Graduiertenfeier an der Uni für 35 Absolventen aus aller Welt. Abschluss von vier englischsprachigen Masterstudiengängen«, Weser Kurier, 25.09.2002
- »Uni verabschiedet Master. Neue Studiengänge auch im Ausland gefragt«, Delmenhorster Kreisblatt, 24.09.2002
- »Erfolgreiches Master-Studium in Bremen«, Bremer Uni-Schlüssel 70, 2002

Costa-Rica-Lehrkooperation

»Mangrovenwälder in Costa Rica studieren –

Bremer Fachbereich gründete Management-Ausbildung«, Weser Kurier, 03.09.2002

Bremer Symposium »Meer und Strand«/ Direktorenwechsel

»Institutsleiter geht in den Ruhestand«, Delmenhorster Kreisblatt, 24.03.2000

G. Hempel, Interview zum Symposium und Direktorenwechsel, Radio Bremen, 29.03.2000

»Institut soll neue Partner in Südostasien finden. Professor Venugopalan Ittekkot übernimmt Leitung des Bremer Zentrums für Marine Tropenökologie«, Weser Kurier, 31.03.2000

»Direktor des ZMT aus dem Amt verabschiedet«, Die Welt, 03.04.2000

Berufungen, Fachbereich 2: Prof. Dr. Venugopalan Ittekkot, Universität Bremen, Impulse aus der Forschung 2, 2000

Bremer Uni-Schlüssel BUS, Personalia, Direktorenwechsel, BUS Nr. 38, April 2000, S. 30

14. Jahrestagung der gtö

»Korallen bleichen aus – Mangrovenwald wird vernichtet. 250 Wissenschaftler befassen sich in Bremen mit menschlichen Eingriffen in tropische Flußgebiete und ihren negativen Auswirkungen«, Kreiszeitung, 06.02.2001

Aus Hochschule und Uni. Bericht über das Orinoko-Delta, Weser Kurier, 08.02.2001

»Fischfang mit Zyankali. Viele Störungen bedrohen tropische Küsten/Tagung in Bremen«, Kreiszeitung, 10.02.2001

»Vernichtung wertvoller Lebensräume geht weiter. Tropenökologen beraten über Konsequenzen«, Delmenhorster Kreisblatt, 10.02.2001

Marc Kochzius, Interview zur Bedrohung der Korallenriffe durch Tourismus am Roten Meer, Nachrichtenagentur DDP, 13.02.2001

Ulrich Saint-Paul, Interview zur Gefährdung von Korallenökosystemen durch Global Change, Deutschlandradio, Wissenschaftsmagazin, 13.02.2001

»Zerstörung des Tropenwaldes ist ein Spiel mit dem Feuer«, Delmenhorster Kreisblatt, 15.02.2001

»Forscher: Tropische Wälder in Gefahr. Tagung in Bremen/Kritik an Politik«,

Weser Kurier, 15.02.2001

»Forscher warnen vor Klimakatastrophe. Ausbeutung der tropischen Wälder«, Magdeburger Volksstimme, 15.02.2001

»Leckerbissen mit bitterem Beigeschmack. Shrimpzuchtfarmen zerstören die Mangroven, die Lebensgrundlage der Küstenbewohner«, Hamburger Abendblatt, 06.03.2001

15. Jahrestagung der gtö

»Ökologische Tropenforschung geht uns alle an. Tagung der Gesellschaft für Tropenökologie – Ausstellung »Tropenvielfalt« in der Roten Straße«, Göttinger Tageblatt, 22.02.2002

ZMT-Forum 2001

»Bulmahn besucht Tropenökologen«, Delmenhorster Kreisblatt, 22.05.2001

V. Ittekkot, Interview, Radio Bremen, »Journal am Abend«, 22.05.2001

»Bundesministerin zu Gast beim ZMT-Forum 2001«, DGM Mitteilungen I, 2001, 26

IOI Executive Council Meeting

»Präsidium tagt an der Uni. Zentrum für Tropenökologie als Gastgeber«, Delmenhorster Kreisblatt, 05.09.2001

»Prominente Hilfe«, Die Tageszeitung taz, 06.09.2001

»Küsten sind sensible Zonen. Elisabeth Mann Borgese für internationale Zusammenarbeit«, Weser Kurier, 15.09.2001

XIth SCOPE GA

»Globaler Umweltschutz – Konferenz in Bremen – SCOPE rückt Bremen ins Zentrum internationaler Umweltwissenschaften«, TAZ, 25.09.2001

»Umwelt im Mittelpunkt«, Kreiszeitung, 22.09.2001

V. Ittekkot, Interview, Radio Bremen, »Journal am Morgen«, 26.09.2001

German-Cuban Workshop

»Initiative für Kubas Küsten. Forscher aus Havanna und Bremen arbeiten an Schutzkonzept«, Weser Kurier, 02.03.2002

»Forscher wollen Kubas Küsten besser schützen. Expertentreffen an der Bremer Universität«, Delmenhorster Kreisblatt, 01.03.2002

»Bremer Konzept für Kubas Küsten. Wissenschaftler des ZMT erarbeiten Strategien

zum Schutz der Korallen«, Die Welt, 21.03.2002

Future Search Conference

»Was ist gut für die Küstenzonen? Experten aus aller Welt befassen sich in Bremen mit nachhaltiger Entwicklung«, Weser Kurier, 08.06.2002

Wochen der Meeresforschung, Wanderausstellung

- »Vom Rathaus zum Lichthof«, Weser Kurier, Aus Hochschule und Uni, 25.05.2000
- »Schule läßt sich mit Expo Zeit. Verkehrsverein informiert Lehrer am Montag über Nordwolle-Projekte«, Delmenhorster Kreisblatt, 27.05.2000
- »Auch von Bakterien läßt sich lernen. Ausstellung zu den Wochen der Meeresforschung«, Delmenhorster Kurier, 31.05.2000
- »Die Steinkoralle als Umweltkalender. Ausstellung ‚Wochen der Meeresforschung‘ eröffnet – Vortrag über Klimaforschung«, Delmenhorster Kreisblatt, 31.05.00
- »Zur Geschichte des Nordseewatts«, Delmenhorster Kreisblatt, 07.06.2000
- »Den Ozean entdecken«, Bremer Tageszeitung, 28.08.2000

Wissenschaftssommer Bremen 2002

»Bremer Meeresforschungs-Institute im Überblick«, Beilage Weser Kurier, 17.08.2002

2. Sonnabend der Wissenschaft, 01.06.2002

- »Am Sonnabend zur Uni«, Weser Kurier, 28.05.2002
- »Kostenloser Bus-Pendeldienst hilft beim Besuch der Uni. Zweiter ‚Wissenschaftssonabend‘ steht an - Auch etliche Institute gewähren einen Blick hinter die Kulissen«, Delmenhorster Kreisblatt, 28.05.2002
- »Fladenbrot und Korallenriff. Die Wissenschaft als Gastgeberin: ›City of Science-Sonnabend‹ im Universitätsviertel, Weser Kurier, 02.06.2002
- »Wissenschaftssonabend an der Uni-Bremen – Wissenschaft zum Sehen, Hören und Begreifen«, Bremer Anzeiger, 05.06.2002

GeoTouren, 25.07.2002

»Reise in die Welt der Tropen – Mit der

fünften Geo-Tour ins Zentrum für Marine Tropenökologie«, Weser Kurier, 19.07.2002

»Auf den Spuren tropischer Lebensräume – Fünfte Geo-Tour führte ins Zentrum für Marine Tropenökologie«, Weser Kurier, 26.07.2002

Lange Nacht der Wissenschaften, 24.08.2002

- »Wasser und Erde stehen sechs Tage lang im Mittelpunkt. Am 22. August beginnt in Bremen der Wissenschaftssommer 2002«, Weser Kurier, 10.08.2002
- »Das Fest der Forschung«, Hamburger Abendblatt, 13.08.2002
- »Bremen im Wasserrausch«, TAZ, 20.08.2002
- »Zur Eröffnung gab es Blitze und Lavaströme – Wissenschaftssommer begann gestern auf dem Domshof«, Weser Kurier, 23.08.2002
- »Nacht der Wissenschaft«, TAZ, 24.08.2002
- »Wasser – das alles bestimmende Element – Lange Nacht der Geowissenschaften trotzte Fluten«, Weser Kurier, 25.08.2002
- »Die Hansestadt im Rausch der Forschung. Mitmachen und Ausprobieren war das Motto der ersten Bremer ›Lange Nacht der Wissenschaften‹«, Die Welt, 26.08.2002

Allgemein

- »Das Korallenparadies«, National Geographic Deutschland, Januar 2000
- Das UNIVERSUM und seine Nachbarn. Wissenschaftler des ZMT interviewt durch Wissenschaftsjournalisten, 07.09.2000
- »Fischzucht in Teichen soll vor allem Armen helfen. Institut fördert umweltfreundliche Methoden in der Dritten Welt«, Weser Kurier, 15.09.2000
- »Das Wasser zog ihn immer magisch an. Marc Kochzius erforscht den Lebensraum Riff«, Weser Kurier, Bremer Nachrichten, 27.12.2000
- »Der Chemie-Ingenieur...«, Siegener Zeitung, 15.03.2001
- »Neue Köpfe. Tropen und Chemie«, Kreiszeitung, 14.04.2001
- »Kooperation im Sinne der Umwelt – Zentrum für Marine Tropenökologie federführend bei der Meeresforschung«, Die Welt, 19.07.2001
- »Forscher arbeiten an Netz zur Meeresforschung. Konferenz in Bremen – Rund 50

- Experten beraten«, Nordsee-Zeitung, 22.03.2002
- »Bremer Forscher wollen die Ozeane beobachten«, Die Welt, 22.03.2002
- »Bremer Forscher beobachten das Meer«, TAZ, 22.03.2002
- »Spaziergänge in ›city of science«. Neues Internetportal soll Wissenschaftsstandort Bremen/Bremerhaven stärken – ›Unter Dachmarke untrennbar verbunden«, Nordsee-Zeitung, 24.04.2002
- »Genesung ohne Garantie«, Focus 52, 2002, S. 13
- ### Press releases
- Bremer Symposium »Meer und Strand«/
Direktorenwechsel: Wie schlecht geht es den Küstenzonen wirklich? Tagung der deutschen Meeresbiologen in Bremen, 22.03.2000
- Bremer Symposium »Meer und Strand«/
Direktorenwechsel: Einladung zur Verabschiedungsfeier von Professor Gotthilf Hempel, 22.03.2000
14. gtö-Jahrestagung: Jahrestagung der Deutschen Tropenökologen zum zweiten Mal in Bremen. 250 Wissenschaftler diskutieren neue Konzepte zum Schutz der Tropen, 05.02.2001
- Indonesien-Kooperation: Meeresforschung und Ausbildung für Südostasien. Bremer Zentrum für Marine Tropenökologie federführend beim internationalen Treffen in Zentraljava, 22.03.2001
- ISATEC: Einladung zur Pressekonferenz der Universität Bremen: »Studieren in Deutschland« – internationale Studienangebote in Bremen, hrsg. von der Pressestelle der Universität Bremen, 05.04.2001
- ZMT-Forum 2001: Bundesforschungsministerin besucht das Zentrum für Marine Tropenökologie, 21.05.2001
- Wochen der Meeresforschung, Wanderausstellung: Wochen der Meeresforschung in Delmenhorst, hrsg. von MARUM, 24.05.2000
- IOI Executive Council Meeting: Prof. Dr. Elisabeth Mann Borgese und das IOI zu Gast am ZMT, 04.09.2001
- SCOPE XIth GA: Bremen im Mittelpunkt der internationalen Umweltwissenschaften - Tagung setzt auf Impulse aus Wissenschaft und Politik für den Weltgipfel 2002, 19.09.2001
- SCOPE XIth GA: Bremen in the Center of International Environmental Sciences - Conference builds on Impulses from Science and Politics for the World Summit 2002, 19.09.2001
- ISATEC: Einladung zur ISATEC Graduierungsfeier, 24.09.2001
- RSP/Jordanien-Projekt: Bremer Meeresbiologen lüften das Geheimnis von Korallenriffen. Neueste Erkenntnisse in jüngster Ausgabe der Fachzeitschrift »Nature«, 15.10.2001
- German-Cuban Workshop: Havanna und Bremen - gemeinsam forschen zum Schutz der Meeresküsten - Erstmals deutsch-kubanischer Workshop am Zentrum für Marine Tropenökologie in Bremen, 27.02.2002
2. Sonnabend der Wissenschaft, 01.06.2002: Wissenschaftssonabend im Uni-Viertel: Fallturmmodell, Hanse-Geschichte, Flug durch den Körper, High-Tech-Material, Antarktis und Tropenforschung, Uni-press aktuell 109, Bremen, 23.05.2002
- Future Search Conference: 10 Jahre nach Rio: Schritte zu einer nachhaltigen Entwicklung und Nutzung von Küsten und Meeren, 29.05.2002
- Clean Aquaculture: Clean Aquaculture in den Startlöchern, 17.06.2002
- Costa-Rica-Lehrkooperation: Internationaler Studiengang zum Küstenzonenmanagement in Costa Rica aus der Taufe gehoben - Bremen massgeblich beteiligt, 26.08.2002
- ISATEC: Internationaler Master-Studiengang zur aquatischen Tropenökologie für fünf Jahre akkreditiert, 26.08.2002
- Reef Check: Der Niedergang der Korallenriffe dauert an - Reef Check Foundation veröffentlicht den Fünfjahresbericht zum bevorstehenden Weltgipfel in Johannesburg. Einladung zur Pressekonferenz am 02.09.2000, 29.08.2002
- MADAM: Bremens Mangrovenforschung weiterhin auf Erfolgskurs – MADAM geht in die dritte Runde, 04.09.2002
- ISATEC: Erfolgreiches Master-Studium in Bremen. Absolventen werden am 24. September 2002 feierlich verabschiedet, Uni-Press aktuell 197, Bremen, 19.09.2002
- MADAM: BMBF unterstützt Waldforschung in Brasilien mit 3,2 Millionen Euro. Ziel ist die nachhaltige Nutzung der ökologisch wertvollen Mangroven-Wälder, hrsg. vom BMBF; 25.09.2002

PUBLIC RELATIONS

Videos

- »Tropical forests between land and sea. Mangrove research in Northern Brazil«. A video documentation about the German-Brazilian research programme Mangrove Dynamics and Management (MADAM), Federal German Ministry for Education and Research (bmb+f/DLR), Johannes Eckelmann, Eule Film, 2000 (in English, Deutsch & Portugiesisch)
- »Korallenforschung am Roten Meer« (5 Min.), Mark Wunsch, 2001

»Das Zentrum für Marine Tropenökologie in Bremen«, Promotion (5 Min.), Mark Wunsch, 2001

Exhibitions

- Wanderausstellung »Wochen der Meeresforschung«, Delmenhorst, 29.05.-08.07.2000, Vegesack, 25.08.-24.09.2000, Nienburg, 08.01.-08.02.2001
- »Tag der Offenen Tür«, Universität Bremen, 23.06.2000

ZMT STAFF

Scientists

- Behling, Dr. Hermann; Paleoecology
- Berger, Dr. Uta; Modelling
- Diele, Dr. Karen; Zoology
- Dittmann, Dr. Sabine; Benthosecology
- Ekau, Dr. Werner; Fishery Biology, Administration
- Glaser, Dr. Marion; Socio-economy
- Heiss, Dr. Georg; Reef Ecology (until 30.09.2002)
- Hildenbrandt, Hanno, Dipl. Math.; Modelling
- Hirsch, Stefanie, Dipl. Biol.; Data Management
- Ittekkot, Prof. Dr. Venugopalan; Director, Biogeochemistry
- Jennerjahn, Dr. Tim; Biogeochemistry
- Jiménez, Dr. Carlos; Reef Ecology
- Klöpper, Dipl. Biol. Sascha; Marine Ecology
- Krause, Dipl. Geogr. Gesche; Geography
- Kunzmann, Dr. Andreas; Kontakt Office, Marine Ecology
- Lara, Dr. Rubén José; Biogeochemistry
- Loick, Natalie, Dipl. Biol.; JGOFS, Coordination
- Mehlig, Dr. Ulf; Botany
- Mühlig-Hoffmann, Annette; Marine Zoology (until 30.11.2002)
- Orejas Saco del Valle, Dr. Covadonga; Projekt Coordination, Reef Ecology
- Pohlmann, Dr. Kirsten; ISATEC Coordination
- Richter, Dr. Claudio; Reef Ecology, Plankton
- Rixen, Dr. Tim; Biogeochemistry
- Saint-Paul, Prof. Dr. Ulrich; Deputy Director, Marine Ecology
- Schnack, Dr. Christiane; Public Relations, Library
- Suthhof, Dr. Andreas; Biogeochemistry (until 15.07.2002)
- Unger, Dr. Daniela; Biogeochemistry

- Westhaus-Ekau, Petra, Dr.; Projekt Assistance, Fishery Biology
- Wolff, Matthias, Prof. Dr.; Director ISATEC Programme, Population Ecology
- Wunsch, Mark, Dr.; Multimedia, Marine Ecology

Other Staff Members

- Bergmann, Kai; EDV-Administration
- Birkicht, Dipl. Ing. Matthias; Laboratory
- Boehme, Gabriele; Accountancy, Logistics
- Dasbach, Dorthée; Laboratory
- Gloede, Susanne; Accountancy (until 31.05.2002)
- Hanning, Dipl. Ing. Andreas; Technician, EDV-Administration
- Kadler, Sabine; Laboratory
- Ludwig, Wolfgang; ISATEC Technician
- Meyerholz, Silke; Secretariate
- Morisse, Ole; Laboratory
- Müller, Christa; Secretariate
- Opitz, Ilona; Accountancy
- Peterke, Dieter; Laboratory
- Pohl, Heinfried; Technician
- Stefes, Carola; Accountancy

Trainees

- Sandra Krautwaschl, Bremen; Laboratory; 01.06.00-31.07.02
- Verena Sahlmann (Schülerin), Bremen; Laboratory; 04.-22.03.2002
- Gerald Weißel (Schüler), Bremen; Laboratory; 27.05.-14.06.2002
- Marian Yong-an Hu, Wachtberg; Laboratory; 05.08.-14.09.02

COOPERATION AGREEMENTS AND MEMBERSHIPS

Local

Universität Bremen
MARUM (AWI, Fachbereich Geowissenschaften, MPI Marine Mikrobiologie)
Polyplan GmbH, Bremen

National

Deutsche Gesellschaft für Meeresforschung (DGM), Hamburg
Ecomares GmbH, Büsum
Erwin Sander Elektroapparatebau GmbH, Hannover
Institut für Meereskunde, Kiel
Max-Planck-Institut für Experimentelle Medizin, Göttingen

International

Agency for the Assessment and Application of Technology of the Republic of Indonesia (BPP Teknologi), Indonesien
Department of Zoology of the University of Cape Coast (UCC), Ghana
Fisheries Faculty of Bung Hatta University (BHU/IACRS), Padang, Indonesien
Fisheries Faculty of Bogor University (IPB), Bogor, Indonesien
Hasanuddin University (UNHAS), Makassar, Indonesien
Institute of Oceanography, Vietnam
Instituto de Oceanología (IdO), Havanna, Kuba
International Ocean Institute (IOI), Halifax, Kanada
International Society for Mangrove Ecosystems (ISME), Okinawa, Japan
Interuniversity Institute (IUI), Eilat, Israel
Marine Science Station, Aqaba, Jordanien
National Aquatic Resources Research and Development Agency, NARA, Sri Lanka
National Institute of Oceanography and Fisheries (NIOF), Alexandria, Kairo, Hurghada, Suez, Ägypten

Riau University (UNRI), Pekanbaru, Indonesien
Universidad de Costa Rica de San José (CIMAR/UCR), Costa Rica
Universidad Nacional (UNA), Costa Rica
Universidad Nacional Agraria La Molina (UNALM), Costa Rica
Universidad Católica del Norte, Chile
Universidade Federal do Pará (UFPA), Brasilien
Universidade Federal de Pernambuco (UFPE), Recife, Brasilien
Universitas Jenderal Soedirman (UNSOED), Purwokerto, Indonesien
University of Bangalore, Indien
University of Indonesia (UI), Jakarta, Indonesien
University of Jordan, Amman, Jordanien
University of Malaysia, Kuala Lumpur, Malaysia
University of Windhoek, Namibia
Yarmouk University, Irbid, Jordanien

Memberships

Association of Tropical and Subtropical Agriculture Research (ATSARF), Stuttgart
Deutsche Gesellschaft für Tropenökologie e.V. (GTÖ), München
Deutsches Forum für Entwicklungsorientierte Forschung (DFOR), Feldafing
Deutsche Sektion der Intergovernmental Oceanographic Commission (IOC)
International Society for Reef Studies (ISRS), University of Kansas, USA
Network of Tropical Aquaculture and Fisheries Scientists (NTAFS-ICLARM), Malaysia
Unifreunde - Freunde der Universität Bremen und der International University Bremen e.V.
Wittheit zu Bremen

BOARD OF TRUSTEES

Dr. Walter Dörhage (Vorsitzender), Senator für Bildung und Wissenschaft, Bremen
 Dr. Holger Bienhold, Senator für Bildung und Wissenschaft, Bremen
 Frau Gerlind Schütte, Senator für Wirtschaft und Häfen, Bremen
 Prof. Dr. Wilfried Müller, Rektor der Universität Bremen (stellvertr. Vorsitzender), Bremen
 Prof. Dr. H. Rosenthal, Institut für Meereskunde, Kiel

Prof. Dr. K. E. Linsenmair, Lehrstuhl für Tierökologie und Tropenbiologie, Universität Würzburg
 Dr. Uwe Lohmeyer, Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ) GmbH, Eschborn
 Prof. Dr. Gerold Wefer, Universität Bremen, Bremen
 Dr. Hartmut Keune, BMBF, Bonn (Gast)

LIST OF ACRONYMS

ABEQUA	Associação Brasileira de Estudos do Quaternário (Brasilien)	BHU	Bung Hatta University (Padang, Indonesien)
AGEP	Arbeitsgemeinschaft entwicklungsländerbezogener Postgraduierten-Programme	BIA	Bremer Innovations-Agentur
AIMS	Australian Institute of Marine Science	BIS	Bremerhavener Investitions- und Stadtentwicklungsgesellschaft
ALFA-COSTA	América Latina Formación Académica – Coastal Sustainable Management of Tropical America	BITZ	Bremer Innovations- und Technologiezentrum
AMB	Arbeitsgemeinschaft meereskundlicher Bibliotheken	BIOLOG	Biodiversität und Globaler Wandel
ACQUIN	Akkreditierungs-, Zertifizierungs- und Qualitätssicherungs-Institut e.V.	BIOME	Global Biome Mapping Project
ASEAN	Association of South-East Asian Nations	BMBF	Bundesministerium für Bildung und Forschung
ASLO	American Society for Limnology and Oceanography	BMVEL	Bundesministerium für Verbraucherschutz, Ernährung und Landwirtschaft
ATSAF	Arbeitsgemeinschaft Tropische und Subtropische Agrarforschung e.V. (jetzt BEAF: Beratungsgruppe Entwicklungsorientierte Agrarforschung)	BMZ	Bundesministerium für Wirtschaftliche Zusammenarbeit und Entwicklung
AWI	Alfred-Wegener-Institut für Polar- und Meeresforschung (Bremerhaven)	BPPT	Agency for the Assessment and Application of Technology (Indonesien)
BCGC	BENEFIT Committee for German Cooperation	BRAMS	Brantas-Madura-Strait Biogeochemistry
BEAF	Beratungsgruppe Entwicklungsorientierte Agrarforschung	B.Sc.	Bachelor of Science
BENEFIT	The Benguela Environment Fisheries Interaction & Training Programme	BSH	Bundesamt für Seeschifffahrt und Hydrographie
BEO	Projekträger des BMBF, Biologie, Energie und Ökologie	CAU	Christian-Albrechts-Universität Kiel
BFAFi	Bundesforschungsanstalt für Fischerei	CDG	Carl-Duisberg-Gesellschaft
		CGK	Cordes-Graefe-Kluncker, Bremen
		CHM	Clearing House Mechanism, Kanada
		CIBMOR	Centro de Investigaciones Biológicas del Noreste (La Paz, Baja California)
		CIM	Centro de Investigaciones Marinas (Kuba)

LIST OF ACRONYMS

CIMAR	Centro de Investigación en Ciencias del Mar y Limnología (Costa Rica)	EU	Europäische Union
CIP	Centro des Investigaciones Pesqueras (Kuba)	FAO	Food and Agriculture Organization of the United Nations
CITMA	Ministerio de Ciencias, Tecnología y Medio Ambiente (Kuba)	FB	Fachbereich
CMTT	Continental Margin Task Team	FIAS	Flow Injection Analysis System
CNPq	Conselho Nacional de Desenvolvimento Científico e Tecnológico (Brasilien)	FON	Field of Neighbourhood
CSA	Cambridge Scientific Abstracts	FRS	Fisheries Research Ship
DAAD	Deutscher Akademischer Austauschdienst	FS	Forschungsschiff
DATZ	Deutsche Aquarien- und Terrarien Zeitung	FUNTEC	Fundação de Tecnologia Florestal e Geoprocessamento (Brasilien)
DDP	Deutschlands neue Nachrichtenagentur Dienste	GEO	Geowissenschaften der Universität Bremen
DDR	Deutsche demokratische Republik	GEOMAR	Forschungszentrum für marine Geowissenschaften der Christian-Albrechts-Universität zu Kiel
DED	Deutscher Entwicklungshilfedienst	GIACT	Gestion Integrada de Areas Costeras Tropicales
DEKLIMC	Deutsche Klimawirkungsforschung, Teil C	GIS	Geographisches Informationssystem
DFG	Deutsche Forschungsgemeinschaft	GKSS	Gesellschaft für Kernenergieverwertung in Schiffbau und Schifffahrt mbH (Geesthacht)
DG	Directorate-General of the European Commission	GTÖ	Deutsche Gesellschaft für Tropenökologie
DGM	Deutsche Gesellschaft für Meeresforschung	GTZ	Gesellschaft für Technische Zusammenarbeit
DKP	Ministry of Maritime Affairs and Fisheries (Indonesien)	HfK	Hochschule für Künste, Bremen
DLR	Deutsches Zentrum für Luft- und Raumfahrt e.V.	HPLC	High Performance Liquid Chromatography
DZG	Deutsche Zoologische Gesellschaft	HTML	Hypertext Markup Language
ECNU	East China Normal University	HWK	Hanse-Wissenschaftskolleg Delmenhorst
ECOMARIS	Ecological Marine Recirculation Systems	IACRS	Indonesian Association for Coral Reef Studies
ECOSUR	El Colegio de la Frontera Sur	IB	Internationales Büro
EDFAM	European Decapod Fisheries: Assessment and Management	IC	Ionenchromatographie
EEAA	Egyptian Environmental Affairs Agency (Ägypten)	ICBM	Institut für Chemie und Biologie des Meeres, Oldenburg
EIOT	Equatorial Indian Ocean Trapp	ICRI	International Coral Reef Initiative
ENAAM	Encontro Nacional de Educacao Ambiental em Áreas Manguezais (Brasilien)	ICSU	The International Council for Science
ENSO	El Niño-Southern Oscillation	ICZM	Integrated Coastal Zone Management
EPD	European Pollen Database	IdO	Instituto de Oceanología (Kuba)
ETFERN	European Tropical Forest Research Network	IDW	Informationsdienst Wissenschaft
ETM	Enhanced Thematic Mapper (ETM)	IEE	Institute for Ecological Economics (University of Maryland, USA)
		IfBM	Institut für Biogeochemie und Meereschemie der Universität Hamburg
		IfM	Institut für Meereskunde Kiel

LIST OF ACRONYMS

IGBP	International Geosphere-Biosphere Programme	MARUM	Zentrum für Marine Umweltwissenschaften (Bremen)
InnoWi	Innovation für die Wirtschaft	MCM	Marine and Coastal Management (Südafrika)
INQUA	International Union for Quaternary Research	MEN RISTEK	Minister for Science and Technology (Indonesien)
INVEMAR	Instituto de Investigaciones Marinas y Costeras	MOU	Memorandum of Understanding
IOC	Intergovernmental Oceanographic Commission	MOSTE	Vietnamese Ministry of Science, Technology and Environment
IOI	International Ocean Institute	MPEG	Museu Paraense Emilio Goeldi (Brasilien)
IOW	Institut für Ostseeforschung (Warnemünde)	MPI	Max-Planck-Institut
IPCC	Intergovernmental Panel on Climate Change	MPIBC	Max-Planck-Institut für biophysikalische Chemie (Göttingen)
IPB	Fisheries Faculty of Bogor University (Indonesien)	MPIEM	Max-Planck-Institut für experimentelle Medizin (Göttingen)
ISATEC	International Studies in Aquatic Tropical Ecology	MPIMM	Max-Planck-Institut für marine Mikrobiologie (Bremen)
ISME	International Society for Mangrove Ecosystems	MRE	Ministério das Relações Exteriores (Brasilien)
ISRS	International Society for Reef Studies	M.Sc.	Master of Science
IST	Institute of Technology, Surabaya	MSS	Marine Science Station, Aqaba (Jordanien)
ITB	Bogor Agricultural University (Indonesien)	NEBROC	Netherlands Bremen Oceanography
ITLOS	International Tribunal for the Law of the Sea	NGO	Non-Governmental Organisation
IUI	Internuniversity Institute (Israel)	NHI	Neue Hanse Interregio – Nieuwe Hanze Interregio
IUIC	Instituto de Investigaciones Científicas (Venezuela)	NIO	National Institute of Oceanography (Goa, Indien)
JGOFS	Joint Global Ocean Flux Study	NIOF	National Institute of Oceanography and Fisheries (Ägypten)
JIGIE	Joint Indonesian German Indian Ocean Expedition	NIOZ	Nederlands Instituut voor Onderzoek der Zee (Texel)
JIGSE	Joint Indonesian-German Sunda Expedition	NLU	Institut für Natur-, Landschafts- und Umweltschutz
JOPS I/II	Joint Oceanographic Projects I/II	NRC	National Research Center (Ägypten)
KfW	Kreditanstalt für Wiederaufbau (Frankfurt)	NTAFS	Network of Tropical Aquaculture and Fisheries Scientists, ICLARM (Malaysia)
KiWi	Mangroven-Waldmodell	NUMA	Núcleo do Meio Ambiente (Brasilien)
KL MN	Konferenz leitender Meeresforscher Norddeutschlands	NWO	Nederlandse Organisatie voor Wetenschappelijk Onderzoek
KÖM	Küste, Ökologie und Mensch	OECD	Organization for Economic Cooperation and Development
LAPD	Latin American Pollen Database	PACON	Pacific Congress on Marine Science and Technology
LIPI	Indonesian Institute of Sciences	PAGES	Past Global Environmental Changes (IGBP)
LME	Large Marine Ecosystem	PANGAEA	Paleo-Network for Geological
LOICZ	Land-Ocean Interactions in the Coastal Zone		
MADAM	Mangrove Dynamics and Management		
MAIS	Mangroven-Informationssystem		
MARCUBA	Congress on Marine Science in Cuba		

	and Environmental Data		System (Computermodell)
PCAMRD	Philippine Council for Aquatic and Marine Research and Development	SIRRO	Siberian River Runoff
PCG	Palestine Consultancy Group (Jerusalem)	SOA	State Oceanic Administration
PD/A	Programas Demonstrativas, tipo A (Brasilien)	SOLAS	Surface Ocean Lower Atmosphere Study
PEP	Pole Equator Pole	SP	Sonderstipendienprogramm
Ph.D.	Doctor of Philosophy	SSC	Scientific Steering Committee
PIK	Potsdam Institut für Klimafolgenforschung (Potsdam)	SUCOZOMA	Sustainable Coastal Zone Management (Schweden)
POLYPLAN	Ingenieurbüro für Energie- und Umwelttechnik GmbH (Bremen)	SKLEC	State Key Laboratory of Estuarine and Coastal Research
PPGCIE	Programa de Pós-Graduação em Ciências: Ênfase em Desenvolvimento Sustentável (Brasilien)	TEMA	Training, Education and Mutual Assistance
PROREND	Programma de Renda Familiar (Brasilien)	TROPICOAST	Datenbank für tropische Küstenforschung
ProSys	Gesellschaft für produktionsorientierte Umweltsystemtechnologien und -management mbH	TUVA	United Lands of Neighbours for the Environment (Costa Rica)
PUSH	Public Understanding of Science and Humanities	TZ	Technische Zusammenarbeit
RMD	Resource and Development Division (Philippinen)	TTZ	Technologie-Transfer-Zentrale Schleswig-Holstein
RISTEK	Ministry of Science and Technology (Indonesien)	UCC	University of Cape Coast (Ghana)
RSMAS	Rosenstiel School of Marine and Atmospheric Science (USA)	UCR	Universidad de Costa Rica (Costa Rica)
RSP	Red Sea Program on Marine Sciences	UENF	Universidade Estadual do Norte Fluminense, Campos-RJ (Brasilien)
RV	Research Vessel	UFCE	Universidade Federal do Ceará (Fortaleza, Brasilien)
SADC	South African Development Countries	UFF	Universidade Federal Fluminense (Niteroi, Brasilien)
SAMSS	South African Marine Sciences Symposium	UFPa	Universidade Federal da Pará (Belém, Brasilien)
SBBT	Southern Bay of Bengal Trap	UFPe	Universidade Federal de Pernambuco (Recife, Brasilien)
SCOPE	Scientific Committee on Problems of the Environment	UFRPe	Universidade Federal Rural de Pernambuco (Recife, Brasilien)
SCOR	Scientific Committee on Oceanic Research	UFT	Zentrum für Umweltforschung und Umwelttechnologie
SECTAM	Secretaria do Meio Ambiente – environmental ministry of the state of Pará, Brasilien	UFZ	Umweltforschungszentrum Leipzig-Halle GmbH
SFAS	Segmented Flow Analysing System	ULBRA	Universidade Luterana do Brasil (Brasilien)
SFB	Sonderforschungsbereich	UNA	Universidad Nacional de Costa Rica (Costa Rica)
SHIFT	Studies on Human Impact on Forests and Floodplains in the Tropics	UNALM	Universidad Nacional Agraria La Molina (Costa Rica)
Sim-Coast	Coastal Management Expert	UNAM	University of Namibia
		UNAN-León	Universidad Nacional Autónoma de Nicaragua-León (Nicaragua)
		UNCBD	The United Nations Convention on Biodiversity

LIST OF ACRONYMS

LIST OF ACRONYMS

UNCED	The United Nations Conference on Environment and Development
UNCLOS	United Nations Convention on the Law of the Sea
UNEP	United Nations Environmental Programme
UNESCO	United Nations Educational, Scientific and Cultural Organization
UNHAS	University of Hasanuddin (Indonesien)
UNRI	University of Riau (Indonesien)
UNSOED	Universitas Jenderal Soedirman (Indonesien)
UNSW	University of New South Wales (Australien)
URGS	Universidade Federal Rio Grande do Sul (Brasilien)
USP	Universidade de São Paulo (Brasilien)
WAST	Western Arabian Sea Trap
WAVES	Water Availability, Vulnerability of Ecosystems and Society in the north-east of Brazil
WBGU	Wissenschaftlicher Beirat der Bundesregierung Globale Umweltveränderungen
WOCE	World Ocean Circulation Experiment
WOTRO	Netherlands Foundation for the Advancement of Tropical Research
WTZ	Wissenschaftlich-Technische Zusammenarbeit
WWF	World Wildlife Fund
ZAIT	Zentrum für Angewandte Informationstechnik
ZALF	Zentrum für Agrarlandschafts- und Landnutzungsforschung (Müncheberg)
ZARM	Zentrum für angewandte Raumfahrttechnik und Mikrogravitation

