

zmt Report 2013/2014



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Welcome from the Director



The role of the tropics and its coasts for the world and explicitly for Europe is often overlooked. In times of dramatic biodiversity loss, increasing population densities along tropical coasts and the subsequently rising demand for food, I am happy to see that the need for relevant research is taken seriously by the German Federal Minister of Education and Research, Prof. Dr. Johanna Wanka, who recently confirmed that "crucial is not only what we know but what we implement".

Similarly, on the European level the launch of Horizon 2020 recognises the need for excellent research to tackle societal challenges. This development is in line with the mission of the Leibniz Center for Tropical Marine Ecology (ZMT) to deliver future-oriented and robust solutions for the sustainable use of tropical marine resources.

The years 2013 and 2014 have been extremely exciting for the ZMT. Not only did we successfully undergo our first regular evaluation since becoming a member of the Leibniz Association in 2009, but we also experienced an exponential growth of our team of researchers and an ensuing expansion into new scientific fields.

Following an extensive external evaluation in 2013 by internationally recognised experts, we are proud to say that the Senate of the Leibniz Association recommended the further funding of the ZMT by the Federal Government and the States in early 2014. The scientific achievements of the ZMT were assessed as very good and the consulting services in particular were deemed to be excellent. The successful combination of natural and social scientific methods, which has been a unique feature of the ZMT since

its very beginning in the early 1990s, has been duly recognised as making a valuable contribution to finding answers to some of the most pressing global environmental issues of our time.

Three new junior research groups have joined the ZMT team since 2013. The BMBF-funded group "Human Agency, Resilience and Diversity in Coral Reefs" led by ZMT alumnus Dr. Sebastian Ferse is a great example of the ZMT's approach to interdisciplinarity. The group tackles a combination of social and natural scientific questions, in order to explore how resilient coastal ecosystems are to anthropogenic and environmental influences.

With the group "Sea Level and Coastal Changes" (a collaboration with the University of Bremen within the framework of the German Excellence Initiative) led by Dr. Alessio Rovere, the ZMT further strengthens its regional cooperation. The group investigates rates and causes of coastal changes at different time scales.

Our newest junior research group, led by Dr. Nils Moosdorf and funded by the BMBF, explores the topic of "Submarine Groundwater Discharge", which has as yet hardly been studied, specifically on a global scale, and therefore opens up another exciting new scientific field for us.

Another new addition to the ZMT has been zoologist Prof. Dr. Martin Zimmer. Following the retirement of Prof. Dr. Ulrich Saint-Paul at the end of the winter semester 2013/2014, he took over the "Mangrove Ecology" workgroup at the ZMT and was appointed to a joint professorship at the University of Bremen in 2014.

Since my re-election as Leibniz Vice-President in 2013, the ZMT has taken on more of a leading role in the internationalisation strategy of the Leibniz Association, especially with respect to intensifying the cooperation with partners in Africa and the Middle East. Considering our experience from many years of intensive partnerships with African countries such as Namibia, South Africa, Tanzania, and several West African countries, as well as the Red Sea region, the ZMT is exceptionally well-suited to contribute to this process. In future, we will also intensify our research collaborations with Southeast Asia, in particular Indonesia.

Over the course of the next few years the ZMT will continue to expand its scientific portfolio by exploring new innovative research fields and develop its international network whilst also focusing on strategically important regions. In

2015/16, two new professorships will be established – one in the Social Sciences and one in Marine Ecotoxicology – and we are particularly enthusiastic that the second of those will be jointly appointed with the University of Oldenburg, which will lead to closer collaborations within a more diversified network of regional partners.

The German Federal Minister for Foreign Affairs, Dr. Frank-Walter Steinmeier, has recently pointed out that “education and exchange can help to overcome hardship and crises, [...] as scientists with their common language are predestined to build bridges where diplomatic paths are blocked [...]”. In the fragile coastal areas of the tropics, the interdependency between growing populations and the marine ecosystems they rely on for their livelihoods is a scientific and societal challenge. We have been working on this challenge for the last 24 years. Today, more than ever, there is a tremendous need

for science-based solutions to ensure the sustainable use of ecosystems, to deal with health-related topics and to explore new natural products that are relevant to the local context in the tropics and beyond. As the leading German research institute for tropical marine ecology, we will therefore continue to set the agenda for science cooperation between Germany and partner countries in the tropics.

Prof. Dr. Hildegard Westphal
Director of the Leibniz Center for Tropical Marine Ecology (ZMT)



Event Highlights

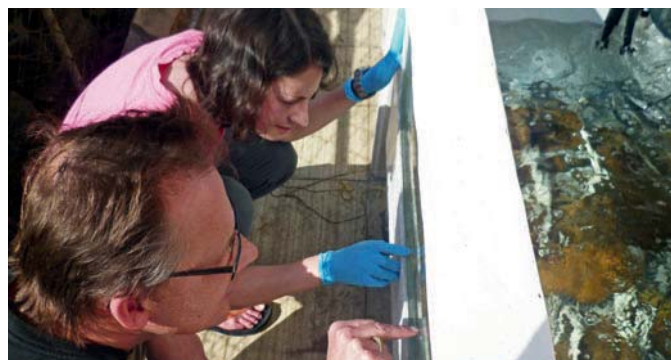


January 2013

“Fiction Meets Science”:

Bernhard Kegel accompanies a ZMT expedition to Jordan

He was an unusual guest on the expedition to Jordan, which a group of reef ecologists from the ZMT set out on in early January 2013: Bernhard Kegel, author of science novels, accompanied the scientists to Aqaba, Jordan, to research his next work of fiction.



February 2013

Scientific divers meet in Bremen

Scientific Diving is an indispensable method for research at the ZMT. In 2013, the institute organised the 3rd International Workshop for Scientific Divers (February 14th to 15th) together with the University of Bremen. More than 80 participants joined the event. Also in February, ZMT hosted the annual meeting of the German Commission of Scientific Diving.

March 2013

New mesocosms at the MAREE

In 2011, the ZMT put a new marine recirculation system into operation at its marine experimental facility (MAREE). In March 2013, the facility started operating a new centrepiece: 24 mesocosms offering a much larger scope of experimental possibilities than before. In order to investigate tropical coastal ecosystems, mesocosm studies are an important link between field and single species experiments.

April 2013

Boosting research cooperation with South Africa

The German-South African Year of Science (2012/2013) provided important impulses for innovative projects in marine research. From April 8th to 9th, experts from Europe and South Africa met at the ZMT. The aim was to concretise plans for a bilateral research programme in the coastal and shelf domain.

May 2013

ARTE accompanies ZMT scientists to Costa Rica

For its broadcast “Arte Expedition” a team from the German-French TV station ARTE accompanied the research conducted by ZMT scientists in Costa Rica. On the Pacific Coast, the scientists found a “natural laboratory” which enabled them to investigate the effects of ocean acidification on coral reef ecosystems in an upwelling system with pH values lower than usual.

June 2013

Declaration on mangrove protection

In June 2013, the ZMT drew attention to the advancing mangrove destruction. During its Anniversary Meeting in San José, Costa Rica, the Association for Tropical Biology and Conservation passed the “ATBC Declaration 2013 on Mangrove Protection”. The statement was devised together with 30 young mangrove researchers in a special workshop organized by the ZMT.

July 2013

63rd Lindau Nobel Laureate Meeting

Each year a meeting of Nobel Laureates takes place in the city of Lindau in southern Germany. At the centre of the gathering is the exchange between the famous awardees and outstanding young researchers from around the world. Seven young scientists from the Leibniz Association were chosen to join the meeting of Chemistry Nobel Laureates in July. One of them was microbiologist Astrid Gärdes, who leads the junior research group “Tropical Marine Microbiology” at the ZMT.



August 2013

ZMT brings exhibition about Elisabeth Mann Borgese to Bremen

The youngest daughter of the German writer Thomas Mann was a keen advocate of sustainable use of the oceans. To mark the 10th anniversary of her death in 2012, the Buddenbrook House in Lübeck dedicated a unique exhibition to the campaigner's life and work. In cooperation with the International Ocean Institute in Malta, the ZMT brought the exhibition "Elisabeth Mann Borgese and the Drama of the Oceans" to the House of Science in Bremen and organised its official opening at the end of August.

September 2013

YOUMARES 4: It's the young marine scientists' turn

The annual conference and networking meeting for young marine scientists and engineers took place in Oldenburg from September 11th to 13th under the motto "From Coast to Deep Sea: Multiscale Approaches to Marine Sciences". The ZMT's PhD students were again instrumental in planning and leading through the convention.

October 2013

"The Maltreated Lagoon" – The Leibniz Journal features ZMT's research in Colombia

Although the lagoon Ciénaga grande in northern Colombia is a UNESCO biosphere reserve, it is heavily overfished by the locals. Environmental ecologists at the ZMT investigate the underlying reasons and alternative behavioural strategies. In October 2013, a new Leibniz Journal was published, which was dedicated to the oceans and featured a report about the project.

November 2013

ZMT Director re-elected as Vice President of the Leibniz Association

At the 19th annual meeting of the Leibniz Association in Berlin, the General Assembly convened to elect the president and the vice presidents. The Director of the ZMT, Prof. Dr. Hildegard Westphal, was re-elected for another two years in office as one of three academic vice presidents.

December 2013

ZMT inaugurates a new research and training station in Java

In cooperation with Jenderal Soedirman University, the ZMT inaugurated a joint research and training station in Purwokerto, Java. The new "International Tropical Marine and Earth Science Laboratory" (ITMEL) offers lecture rooms and laboratories with modern equipment for biological and biogeochemical work.

February 2014

ZMT Professor receives Honorary Doctorate

In February, Prof. Dr. Matthias Wolff was awarded an honorary doctorate from the National University of Piura in northern Peru. At a festive ceremony the fisheries biologist was honoured for his long-time research on population dynamics and management of fisheries resources in Peru.

March 2014

Positive evaluation of the ZMT

The Leibniz Center for Tropical Marine Ecology (ZMT) achieved tremendous success in its evaluation. During its meeting in March, the Senate of the Leibniz Association recommended the further support of the ZMT through the German Federal Government and the States. The Center succeeded in convincing the reviewers of its scientific performance and its concept for future developments.

April 2014

Continuation of cooperation with Indonesia

Ten years ago the ZMT initiated a successful cooperation in marine research with Indonesia by setting up the SPICE Programme which is due to expire in 2015. On April 29th, representatives of the Indonesian Ministry of Marine Affairs and Fisheries, the University of Jakarta, the FAO and the GIZ met with ZMT scientists to discuss new cooperative approaches.

May 2014

Martin Zimmer takes over Mangrove Ecology chair at ZMT

Following the retirement of Prof. Dr. Ulrich Saint-Paul in March, zoologist Prof. Dr. Martin Zimmer took over the chair of Mangrove Ecology and assumed responsibility for the respective working group. At the ZMT Prof. Dr. Martin Zimmer is pursuing his research interest in interactions in ecosystems under changing environmental conditions with a focus on mangroves.

June 2014

Memorandum of Understanding with the University in Makassar

Hasanuddin University (UNHAS) in Makassar, Sulawesi, and the ZMT are connected by a long tradition of research cooperation, which started in 2003. In June, a Memorandum of Understanding was formally signed at the ZMT by Prof. Dr. Dwia Aries Tina Pulubuhu, the new Rector of UNHAS, and Prof. Dr. Hildegard Westphal, Director of the ZMT. The MoU aims at continuing and intensifying the cooperation.

July 2014

Bremen's Mayoress Karoline Linnert visits the ZMT

Karoline Linnert, Mayoress and Senator of Finance of the Free Hanseatic City of Bremen, visited the ZMT on July 31st. During her visit she got acquainted with the scientific work and the goals of the ZMT and took part in a guided tour of the marine experimental facility (MAREE).

September 2014

Research cooperation between Europe and the South Pacific is centre of discussion at PACE-NET Plus conference in Bremen

From September 9th to 11th the first international conference of the network project PACE-NET Plus took place in Bremen. As the German project partner, the ZMT was responsible for organising the conference with the topic "Europe-Pacific Collaborations in View of Global Change Processes". Government representatives from the South Pacific and the EU as well as more than 100 participants from the fields of science, politics and business attended the event.

October 2014

Leibniz in Africa: Networking meeting at the ZMT

On the October 16th, the ZMT hosted a workshop to further develop the Leibniz Association's strategy with respect to intensifying the cooperation with partners in Africa. The workshop was a response to the Africa concept of the Federal Government, which aims to make Germany more visible in Africa as a key partner in education and research.

November 2014

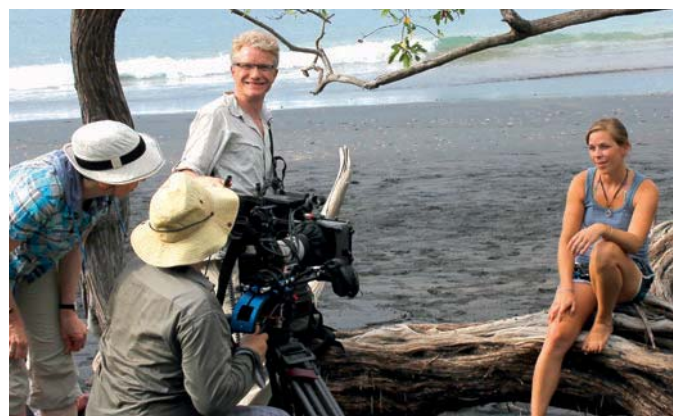
ZMT presents its research cooperation with Indonesia to Foreign Minister Steinmeier

From November 1st to 3rd, Foreign Minister Dr. Frank-Walter Steinmeier visited Indonesia, one of the most important Asian partner countries for Germany. During a boat trip along the Bay of Jakarta, ZMT scientist Dr. Tim Jennerjahn had the opportunity to talk to Dr. Steinmeier about the bilateral cooperation in marine research between the ZMT and Indonesia.

December 2014

Summer School in Dakar

For the summer school of the AWA research project participants from France, Germany and seven African states gathered in Dakar to discuss issues about Marine Protected Areas, management needs and tools. In the framework of the multilateral AWA project, the ZMT investigates commercial fish stocks in Senegal and the degradation of their environment.



Research and Capacity Building





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Research and Capacity Building

As an interdisciplinary Leibniz institute the ZMT's mission is to conduct research on the structure and functioning of tropical coastal ecosystems and their reaction to natural changes and human interactions. Its goal is to develop research-based knowledge for the sustainable use of marine resources. Topics such as eutrophication, acidification, pollution, societal use of ecosystems and the impact of climate change are investigated and addressed within the ZMT's integrated approach of combining natural and social sciences.

In 2013 and 2014 was active in a total of 75 research projects, of which 43 were funded by the ZMT core budget. The BMBF provided funding for 11 projects. Three projects were funded by the Leibniz Association, four by the DFG and three by the EU. The IB BMBF supported four projects while the Volkswagen Foundation and the Alexander von Humboldt Foundation funded one project each. Industry (AIF and GIZ) or DAAD and FWF accounted for the remaining five.

The number of research publications in the reporting period totalled 204 with 166 of these published in peer-reviewed journals (58 available as open access). The figure also includes nine editorials, ten book chapters and 19 other publications. For a detailed breakdown of all publications please see the appendix.

In order to integrate its research results into local and national decision-making agendas to benefit sustainable use on the ground, the ZMT set up the Office for Knowledge Exchange (OKE) in 2014. The OKE offers assistance in networking with political actors



and other stakeholders in target countries whilst also helping with integrating real world problems into the scientific process and transferring research results.

Social anthropologist Prof. Dr. Bettina Beer continued her work as Leibniz Chair until the end of 2014 overseeing a PhD thesis on the perceptions of climate change on Takuu Atoll, in Papua New Guinea. With the Leibniz Chair – awarded for three years and endowed with a PhD position and research funding – the ZMT seeks close collaboration with disciplines not represented at the institute.

In 2013, the Leibniz Graduate School SUTAS (Sustainable Use of Tropical Aquatic Systems) was founded with funding from the Leibniz Association. SUTAS is coordinated by the ZMT and conducted with partners in and around Bremen as well as in the tropics.

In 2013 and 2014, 15 doctoral theses were finalised at the ZMT, two of them received the grade “summa cum laude”. In addition, 40 Master theses and 16 Bachelor theses were completed.

Since the institute's founding, ZMT scientists have supervised more than 120 PhD students and about 270 Master students from 75 countries. The ZMT has set up an Alumni Relations Office in 2014 to intensify and strengthen the contact with its alumni and expand their role as ZMT ambassadors.



Positive Evaluation of the ZMT by the Leibniz Senate

It was a tremendous success for the Leibniz Center for Tropical Marine Ecology: In September 2013, the Senate of the Leibniz Association recommended the further support of the ZMT by the Federal Government and the States. The ZMT succeeded in convincing the reviewers of its scientific performance and its concept for future developments. The

recommendation was preceded by an external scientific evaluation in May 2013 through internationally renowned experts.

The overall process involved an independent assessment focusing on:

- the ZMT's cooperation with other institutions
- its international visibility

- the transfer of research results into other sectors of society
- the promotion of young scientists and
- the concept for the future development of the institution



Sustainable Use of Tropical Aquatic Systems (SUTAS): New Leibniz Graduate School founded



At the end of 2012 funding for the new Leibniz Graduate School SUTAS was granted to the ZMT, with six PhD student positions and provisions for summer schools and courses aimed at a wider circle of SUTAS-related PhD students. German partners in this undertaking are the Leibniz institutions Senckenberg am Meer and the Institute for Epidemiology and Prevention Research, the University of

Bremen, Jacobs University, the University of Oldenburg as well as academic institutions based in Zanzibar.

Starting in 2013, the SUTAS research programme aims at conducting multidisciplinary research in focus regions of the ZMT, in order to tackle particular social-ecological problems. For the first three years of SUTAS, the focus area

has been the island of Zanzibar off the coast of Tanzania. Its coastline hosts a range of diverse ecosystems, including mangrove forests, sea grass beds and coral reefs. Relatively pristine sites are in close proximity to areas that are heavily impacted by urbanization and changes in land-use patterns. This facilitates intersystem comparisons of the effects of anthropogenic disturbance.

Pacific Europe Network for Science, Technology and Innovation (PACE-Net Plus) off to successful start

PACE-Net Plus, started in 2013, is a three-year coordination venture supported by the European Commission in the frame of the 7th Research Framework Programme. Its main goal is to strengthen bi-regional sustainable dialogue on science and technology between Europe and the Pacific. As part of the design of Horizon 2020, the project has an advisory role for the policy of the European Commission. PACE-Net Plus establishes balanced partnerships by regrouping multiple international stakeholders – partners from research, industry, government and civil society – for research actions in areas of mutual interest.

The ZMT is one of 16 project partners that organise expert workshops on societal challenges and information days, in order to offer a platform for stakeholders who are interested in joint actions. In several projects, the ZMT already maintains longstanding relationships with scientists and research institutions in the Pacific region, for instance in Papua New Guinea and in Fiji. With its commitment to PACE-Net Plus the institute helps to establish further contacts. In 2014, the ZMT organised and hosted the first PACE-Net Plus conference with more than 100 participants from the South Pacific and Europe.



The ZMT as a training facility: New “Scientific Diving Unit” established

Scientific diving is an indispensable method for many aspects of marine sciences and a prerequisite for many of the approaches undertaken by ZMT researchers. Examples include physiological studies on coral reef organisms, reef ecology experiments and surveys, acquisition of environmental data, and sedimentological as well as biogeochemical sampling. In response to the demand for diving as a fundamental research tool, the ZMT has joined the German Commission for Research Diving (KFT), and is in the process of becoming an official, government-approved training facility.

In 2013, a “Scientific Diving Unit” was set up at the ZMT to ensure diving safety on expeditions by educating divers and enabling them to follow mandatory safety guidelines. The “Scientific Diving Unit” trains ZMT research divers by providing first aid courses, theoretical seminars on diving, and regular pool training for fitness



and skill development. In collaboration with the Alfred Wegener Institute for Polar and Marine Research (AWI), the ZMT has also developed a compact course programme providing advanced training in tropical research diving. The course is a vocational training approved by the German Professional Association

of the Construction Industry, offering a qualification as “Certified Research Diver” that is recognised in Europe. Scheduled annually it can cater for 12 scientists or students. In 2014, the training course took place on the Island of Helgoland (Germany) for two weeks in summer and on Crete for two weeks in autumn.





Innovative junior research groups set up at the ZMT

In 2013 and 2014, three new junior research groups were initiated at the ZMT in addition to two already existing groups.

The ZMT sees the junior research groups as an important tool for addressing new research topics, while at the same time providing a means to support the academic qualification of junior research staff. Since September 2013, the ZMT has been hosting the new BMBF-funded group “Human Agency, Resilience and Diversity in Coral Reefs”, which is headed by Postdoc Dr. Sebastian Ferse from the Department of Ecology. The group started working on the project REPICORE (Resilience of South Pacific coral reef social-ecological systems in times of global change), which is a joint initiative with partners in

Papua New Guinea, the Solomon Islands, Fiji, New Caledonia, Australia, USA, South Africa, France and Sweden.

A junior research group on “Submarine Groundwater Discharge” funded by the BMBF in the framework programme “Junior Research Groups Global Changes” started in August 2014 in the Department of Biogeochemistry and Geology. It is led by Dr. Nils Moosdorf from the University of Hamburg. Also, a group focussing on “Sea Level and Coastal Changes” was applied for jointly with the University of Bremen under the third line of the Excellence Initiative. Dr. Alessio Rovere from Columbia University, USA, was appointed group leader in spring of 2014.



The ZMT bids farewell to Prof. Dr. Ulrich Saint-Paul with celebratory colloquium

At the end of the winter semester 2013/2014 the mangrove ecologist Prof. Dr. Ulrich Saint-Paul ended his active service at the ZMT. In recognition of his scientific achievements, the ZMT hosted a festive colloquium and a symposium which brought together prominent mangrove ecologists from around the world to present current trends in mangrove research.

In 1993, less than two years after the founding of the institute, the hydrobiologist and fisheries scientist Ulrich Saint-Paul was appointed to a joint professorship for marine ecology at the ZMT and the University of Bremen. He founded a mangrove-ecological work group at the ZMT and headed, among other, the prestigious MADAM project

(Mangrove Dynamics and Management), which was funded for a ten-year period by the BMBF.

The project was based on a novel, integrated approach which is now regarded as seminal. With the MADAM

project, the ZMT became an internationally leading institution in tropical marine research. Following Prof. Dr. Ulrich Saint-Paul's retirement Prof. Dr. Martin Zimmer, a zoologist from the University of Salzburg, took over the chair of Mangrove Ecology at the ZMT in May 2014.



New alumni office launched at the ZMT



In June 2014, the ZMT was awarded a EUR 30,000 grant by the Alexander von Humboldt Foundation in the frame of the competition "Research Alumni Strategies" to implement its newly developed alumni strategy. For this purpose, the ZMT hired an alumni officer who, among other ventures, has started to set up a database, which will contain information about the current whereabouts and research interests of the ZMT alumni. This undertaking provides the institute with the prospect of identifying future research collaborations in Germany and abroad. Other plans involve creating an online platform and the implementation of network events.

Through cooperative research projects, the ZMT has built up an extensive scientific network in tropical and

subtropical countries. Since its founding in 1991, the institute has supervised well over 120 doctoral students from more than 75 countries. Through the newly approved funding, the ZMT now has the opportunity to maintain more intensive contact with its alumni and to expand their role as ambassadors in their home countries. Increasingly, cooperation projects of the institute are initiated by ZMT alumni, who by now work in leading positions in partner institutions of their home countries.

As a result of strengthened cooperation, additional research fields can be established. By implementing its alumni strategy, the ZMT also contributes to the reputation of Germany as an attractive research and innovation location.

Research Projects



Contribution to Coral Commons (Triple C)

Duration: 2014 – 2017

Partner Countries: Indonesia and Germany

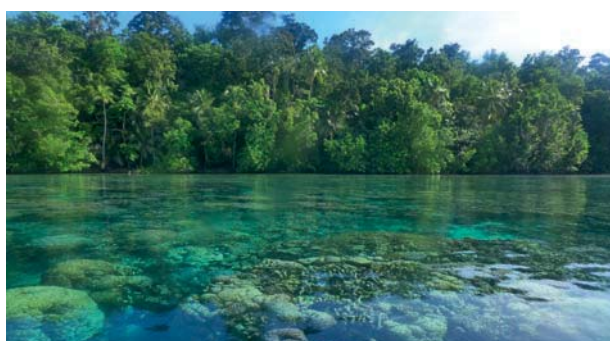
Main Partners: Centre for European Economic Research (Germany), Rheinisch-Westfälisches Institut für Wirtschaftsforschung (Germany), Gesellschaft für Konsumforschung (Germany), Jacobs University Bremen (Germany), Centre for Coastal and Marine Resources Studies at Bogor Agricultural University (Indonesia), Department of Economics at Universitas Gadjah Mada (Indonesia), The Nature Conservancy (USA)

Funding: Leibniz Association

Triple C is a multilateral project with partners in Indonesia and the US, which is funded by the Leibniz Association and coordinated by the ZMT.

Tropical coral reefs provide substantial ecosystem services on a global and local scale: they produce fish, protect shore lines, provide tourism recreation, and host a huge biodiversity. But coral reefs face unprecedented degradation that stems from various drivers operating at multiple levels: for example, ocean acidification, temperature rise, eutrophication or overfishing. From an economics perspective, coral reefs are common pool resources, meaning that all would benefit from halting degradation. However, the pursuit of individual benefits creates incentives to continue destruction.

The project started in May 2014 and contributes to resolving the crisis of tropical coral reefs. By employing different methods from economics, ethnography, and ecology the scientists investigate factors that determine people's willingness to support solving the coral commons dilemma. Results will help to find institutional mechanisms to address the crisis. The project is innovative in that it focuses on an ecological resource, but puts the emphasis on the analysis of humans as the primary ecosystem engineer. Also, it investigates the interaction between a global and a local collective action problem by combining different methods. Project components include cross-cultural public goods experiments, natural field experiments, spatially explicit econometric modelling, ethnographic assessment and ecological assessment.



New Regional Formations: Rapid environmental change and migration in coastal regions of Ghana and Indonesia

Duration: 2014 – 2016

Partner Countries: Ghana, Germany and Indonesia

Main Partners: Artec – Sustainability Research Center at Universität Bremen (Germany), Institute for Advanced Study in the Humanities (Germany), Institute of Geographical Sciences at Freie Universität Berlin (Germany), Centre for Migration Studies (Ghana), Coastal and Marine Resources Management Centre and Department of Geography and Resource Development at University of Ghana, Faculty of Geography at Universitas Gadjah Mada (Indonesia)

Funding: Volkswagen Foundation

Since 2014, the ZMT has been leading two sub-projects of “New Regional Formations”, which is a joint three-year project funded by the Volkswagen Foundation. “New Regional Formations” is coordinated by artec at the University of Bremen.

Coastal regions are at the centre of two closely related key challenges for today’s societies: environmental change and migration. They are traditionally both origins and destinations of migratory movements. At the same time, coasts are continuously transformed by geomorphological, climatic and other forces. This ongoing change is expected to increase with global warming and its secondary effects. The project focuses on two coastal regions. The region of Semarang in Central Java (Indonesia) is threatened by land subsidence and flooding; the district of Keta (Ghana) is experiencing ongoing, heavy erosion along the coast.

The researchers involved in the project ask how environmental changes and respective risk cultures intersect with evolving migrant trajectories, economic strategies of households and policy responses to create differing sets of constraints and opportunities for new regional formations. These are characterised by an array of differing actor sets, negotiation arenas, policies and concrete adaptation measures that are constituted along the environmental change. The concentration on the regional level reflects the now widely accepted idea that regions have significantly grown in importance as hubs of economic and political development and as interpretive frameworks shaping individual and collective identities. The research is carried out in a fully integrated design. All subprojects will deal with the situation in both regions. Accordingly, the aim will be a high degree of consistence in methods and research design.



Ecosystem approach to the management of fisheries and the marine environment in West African waters (AWA)

Duration: 2013 – 2017

Partner Countries: Germany, France, Benin, Cape-Verde Islands, Ivory Coast, Gambia, Guinea, Guinea-Bissau, Mauritania, Senegal

Main Partners: More than 30 partners in the countries listed above (for details please see www.awa-project.org)

Funding: Federal Ministry of Education and Research (BMBF)

The ZMT forms part of a consortium that initiated the trilateral cooperation project “Ecosystem approach to the management of fisheries and the marine environment in West African waters (AWA)”. The integrated project is being coordinated by the Thünen Institute for Fisheries (Germany) and the Institut de recherche pour le développement (France).

One of the most important fish species in the West African estuarine and coastal fisheries is the Bonga shad (*Ethmalosa fimbriata*), a clupeid species occurring from Senegal to Angola. Senegal contributes about 13,000 t (compared to formerly 30,000 t) to a total catch of 230,000 t in the whole distribution area. The fish stocks suffer from bad management and environmental degradation.

ZMT participates in two sub-projects dealing with the dynamics and productivity of the Bonga shad. The potential of the southern estuaries as a recruitment and nursery area for coastal fishes are also investigated. The project comprises tasks such as the assessment of the Bonga shad population structure, identification of its spawning behaviour; assessment of the growth and production potential of the species and the potential of the estuaries to function as nursery areas.

The ZMT is also responsible for the training and capacity building elements within the project. Summer schools, special courses and training cruises on research ships are envisaged as accompanying activities to the research work.



Modelling the adaptive capacity of plankton communities in a changing ocean (ADACAP)

Duration: 2014 – 2017

Partner Countries: Germany, Japan, Spain

Main Partners: Max Planck Institute for Evolutionary Biology (Germany), Institute for Chemistry and Biology of the Marine Environment at Universität Oldenburg, Japan Agency for Marine-Earth Science and Technology (Japan), Departamento de Ecología y Biología Animal at Universidad de Vigo (Spain)

Funding: German Research Foundation (DFG)

Evidence is accumulating on the ecological

consequences of the changing climate. In the aquatic realm, for example, such consequences have involved shifts in the phenology of phytoplankton and zooplankton and reorganizations of phytoplankton community compositions towards species with smaller cell sizes. In a changing environment, ecological communities need to adapt their distribution of phenotypes so that the average fitness increases and the community can thrive under the new environmental conditions.

Adaptation can work through a change in the genetic composition (e.g. microevolution) or through different forms of phenotypic plasticity. Whether such mechanisms will play a role in the real ocean – for example by making phytoplankton

communities more resilient to changing environmental conditions – is currently unknown.

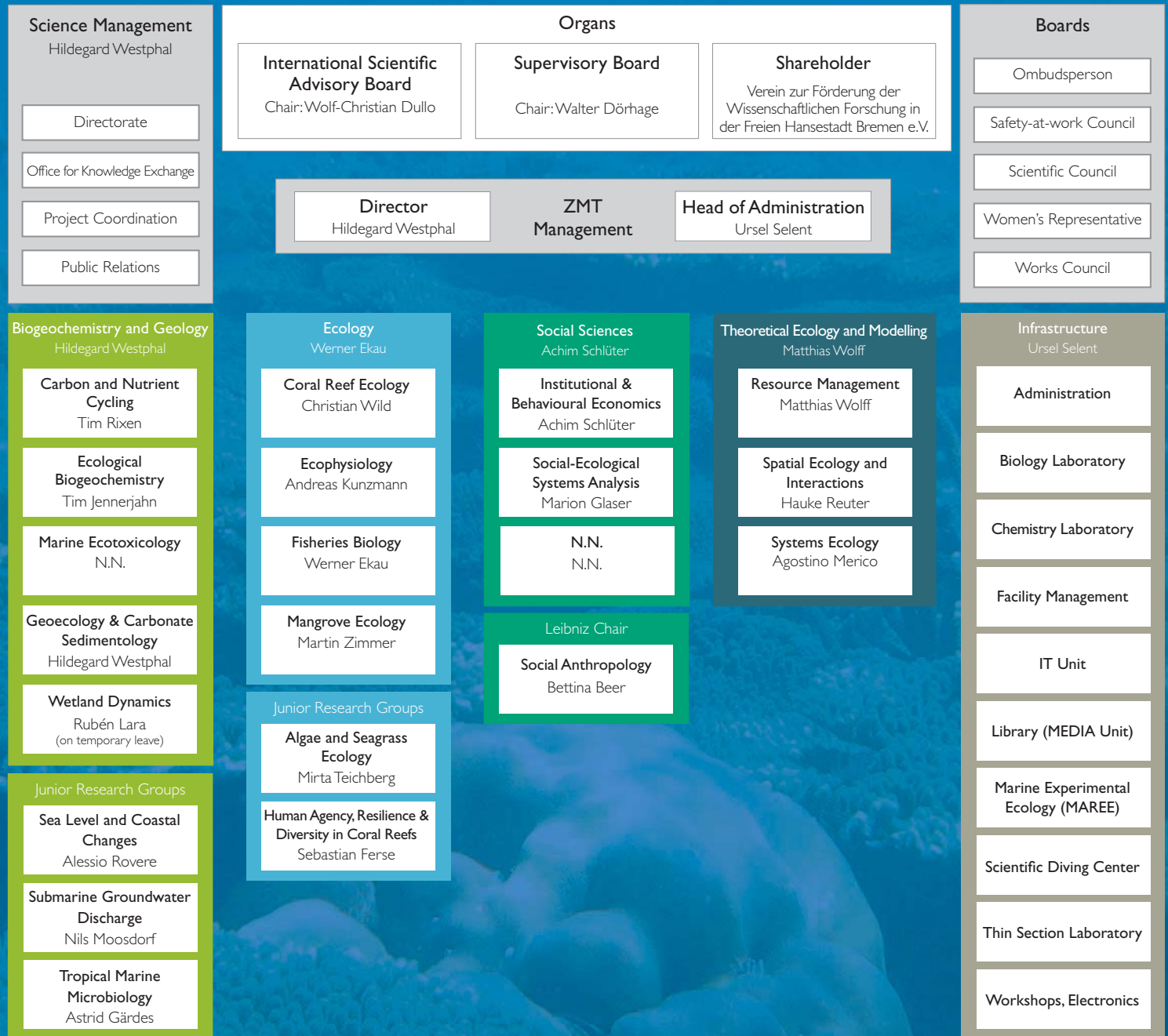
In this project the scientists will integrate a variety of laboratory data and field observations, including those acquired within the DFG Priority Programme DynaTrait, into a trait-based modelling framework. With this tool they can investigate how shifts in phytoplankton community composition and phenotypic diversity impact the foodweb dynamics of two contrasting regions of the Atlantic Ocean (temperate and tropical) under a number of environmental disturbances and future scenarios. The project strives to translate the knowledge acquired within the DynaTrait Priority Programme into the context of a “real” ocean environment.



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Leibniz Center for Tropical Marine Ecology (ZMT)



A tropical beach scene with several tall palm trees in the foreground and middle ground. The water is a clear, light blue-green color, and the sand is white. The sky is blue with some light clouds. The text is overlaid on a green rectangular background in the top left and bottom left.

Department of Biogeochemistry and Geology

Workgroups:

Carbon and Nutrient Cycling

Ecological Biochemistry

Geocology and Carbonate Sedimentology

Sea Level and Coastal Changes (Junior Research Group)

Submarine Groundwater Discharge (Junior Research Group)

Tropical Marine Microbiology (Junior Research Group)

Wetland Dynamics



Head of Department:
Prof. Dr. Hildegard Westphal

The Department of Biogeochemistry and Geology studies changes of the abiotic environment and its interface with the living world through time.

The abiotic environment reacts to natural and anthropogenic influences by changes in matter fluxes and physical conditions. Variations in the abiotic environment affect the biotic sphere of the ecosystems and the ecosystems' services. Sediment fluxes as response to land-use change or resulting from deterioration of mangroves affect the health of coral reefs. Damage to sea-grass meadows or sand mining can bring about severe coastal erosion. Eutrophication by increasing fertiliser use in agriculture leads to a shift of faunal associations away from photic or photosymbiotic organisms to heterotrophic ones. At the same time the physical and chemical records such as sediment cores and skeletons of marine organisms provide archives of changes seen in nutrient levels, acidification, growth rates of calcifying organisms to change in sediment input and alike.

The Department of Biogeochemistry and Geology focuses on the response of tropical systems to natural and anthropogenic change. Studies of present-day settings combined with reconstructions on time scales relevant to humans provide the means to explore scenarios of future developments. Studies spanning from the hinterland of coasts to coastal ecosystems and further to the deep sea provide an integrative perspective of the land-ocean continuum.

Based on an empirical, non-site-specific approach driven by data acquisition, researchers in this department devise, calibrate, test and improve scenarios of future developments. Their toolbox includes biogeochemical, sedimentological, geochemical, and microbiological methods.

The department contributes to the ZMT mission by pinning down the physicochemical effects of human activities and linking human action to the ecosystem. As the largest gaps in data and knowledge on the abiotic environment on a global scale still persist in the tropics, the scientists also provide data for the databases on global change.





Department of Ecology

Workgroups:

Algae and Seagrass Ecology (Junior Research Group)

Coral Reef Ecology

Ecophysiology

Fisheries Biology

**Human Agency, Resilience and Diversity in Coral Reefs
(Junior Research Group)**

Mangrove Ecology

**Head of Department:**

Dr. Werner Eku

The Department of Ecology analyses the importance of biodiversity for the structure of and processes in tropical coastal ecosystems on different organisational levels from individuals to communities and ecosystems.

Here, researchers strive for a deeper understanding of interactions and interrelationships on different organisational levels. Increasing temperature in the ocean and decreasing oxygen (hypoxia or anoxia) or pH (acidification) are threats to the physiology of organisms (e.g. causing coral bleaching), and the effects are reaching the community or even ecosystem level (e.g. causing interference with reproduction or reef degradation). Overfishing and eutrophication in their different facets impact first on the organism and community level, but may also change the ecosystem as such or drive genetic changes through selection processes. The knowledge of the relationship between biodiversity (changes) and ecosystem services under global change conditions is key in the work of the department.

The scientists address these phenomena by looking into the physiological processes in single individuals of various species of ecosystem relevance to understand the reaction and threshold values of key species in the systems in relation to key parameters. They also analyse processes such as growth, reproduction and feeding of these key species to quantify the changes in the populations and their contribution to the systems' services.

The department contributes to the mission of ZMT by providing knowledge on the structure, the processes and the potential services of coastal ecosystems in the tropics, thus delivering key information for a sustainable management of coastal resources and ecosystem restoration.



Department of Social Sciences

Workgroups:

Institutional and Behavioural Economics

Leibniz Chair Social Anthropology

Social-Ecological Systems Analysis



Head of Department:

Prof. Dr. Achim Schlüter

The Department of Social Sciences investigates the human dimension of tropical coastal and marine social-ecological systems.

Its work focuses on the link between the social and the ecological sides of the system. The ecological side has a strong influence on the culture, economy, social relationships, and governance of this particular system, while the social subsystem in turn impacts on the ecological subsystem. Institutions as rules – though being a contract only between people – mediate what is required, prohibited and allowed in a society with regards to using the ecological part of the system. They therefore determine if the anthropogenic use is a sustainable or an unsustainable one.

People rely on and substantially influence the resources of tropical marine social-ecological systems. Therefore, understanding human behaviour and its governance mechanisms is crucial if a sustainable use in an ecological, social and economic sense should be achieved. Considering the particular social-ecological context is of fundamental importance for a proper understanding and the resulting policy conclusions. People at the local level are affected by environmental (economic, social and ecological) change. They react to these changes in different ways. Some responses are individual, others are collective. Researchers in the Department of Social Sciences try to understand these reactions and their impacts on sustainable resource use whilst also analysing the effect of different governance mechanisms.

Understanding the role of people in the specific social-ecological system requires multiple social sciences disciplines, heterogeneous theories holding different assumptions and a variety of methods ranging from qualitative to quantitative, from experimental to descriptive. It is an interdisciplinary challenge, which the department's social scientists meet within highly complementary and synergistic working groups.

People hugely influence most tropical marine social-ecological systems while at the same time being the only species that can actively manage those systems. The Department of Social Sciences therefore contributes to the ZMT's mission by analysing the central role of people in such systems.

A close-up photograph of a person's hands sorting through a large pile of scallops in a blue boat. The scallops are dark purple and brown, and the boat's interior is painted blue. The person is wearing a brown shirt and a white headscarf. The background shows green water.

Department of Theoretical Ecology and Modelling

Workgroups:

Resource Management

Spatial Ecology and Interactions

Systems Ecology



Head of Department:
Prof. Dr. Matthias Wolff

In 2014, the department underwent a name change from Ecological Modelling to Theoretical Ecology and Modelling to better reflect its scientific focus.

The Department of Theoretical Ecology and Modelling studies ecological and social-ecological systems using theoretical methods such as conceptual models, mathematical models, computational simulations, and advanced data analysis.

As complex entities, social-ecological systems are composed of many interacting parts creating the property of great functional constancy over time at the ecosystem scale, while at the smaller scale of populations and individual organisms the intrinsic natural variability of processes may be large. Human activities alter the natural variability of fundamental processes such as the spatial structure of land- and seascapes, the trophic control mechanisms in food webs and biogeochemical cycles, thus causing drastic changes in system functioning.

As a way of dealing with the complexity of these social-ecological systems, researchers within the department adopt an integrative approach by using and developing models for systems at different levels of organisation (from cells to ecosystems) and for different spatial and temporal scales. Energy and nutrient inputs, disturbances and species interactions create complex spatial patterns of the distribution of organisms. The identification of such spatial patterns and their relationships to ecological processes and changing environmental conditions are also part of the research activities. Scientists in the Department of Theoretical Ecology and Modelling are interested in understanding complex interactions and control mechanisms among species of different trophic levels with a focus on strategies leading to a sustainable management of resources.

They use a diverse set of modelling techniques – including individual-based modelling, cellular automata modelling and biogeochemical modelling – and also develop models of evolutionary trait dynamics and kinetic models of nutrient uptake and cell physiology. Furthermore, they adopt complex adaptive system approaches and ecosystem trophic mass balance analyses. Specific modelling tools allow researchers to use time series to model system changes over time as driven by anthropogenic and/or environmental factors and to simulate future use and perturbation scenarios of tropical aquatic systems. As integrative tools, these models not only allow synthesising a great variety of data, knowledge and approaches from different research disciplines, they are also relevant instruments for decision support and thus directly contribute to the mission of the ZMT.

Science Management and Infrastructure





Directorate

By driving and supporting internal processes at the ZMT, the directorate forms an integral part of the institute. One of its main tasks is pushing forward and constantly improving the ZMT's research strategy.

The directorate further supports the coordination of both the PhD programme and the graduate school, and manages all internal and external board meetings. Members of the directorate support guest scientists and foreign colleagues and contribute to the open-minded welcome

culture at the ZMT. In 2013 and 2014 one of directorate's key responsibilities was to prepare the evaluation of the ZMT through the Senate of the Leibniz Association.

Third party funding is an important pillar of the ZMT and the directorate supports and assists with application activities by undertaking constant monitoring of new funding channels and relevant calls for research proposals. Moreover, the directorate is closely involved in

international and national networking, organises science conferences and institutional meetings and leads the institute's science policy activities – for instance within the Leibniz Association or the German Marine Research Consortium (KDM).

The directorate also engages in active representation of the ZMT at the European Union, thus continuously raising the voice for tropical marine science both on a national and international level.

Office of Knowledge Exchange (OKE)

The ZMT conducts research to support the development of sustainable governance strategies on the basis of sound scientific knowledge. In order to better promote the sustainability of its research, to ensure its societal relevance, and to raise its impact, closer interaction with the various stakeholders in the ZMT's partner countries is needed. This requires an intensive dialogue between scientists and other stakeholders in tropical partner countries and Germany.

The ZMT has therefore decided to invest in a dialogue unit and set up the Office of Knowledge Exchange (OKE). Its tasks include the development of a strategy for the integration of knowledge exchange into

project planning and implementation, the identification of relevant stakeholder groups and devising a communication concept to address the needs and interests of these groups. The new head of the OKE, Dr. Bevis Fedder, joined the ZMT in April 2014.

In order to initiate the development of best practice guidelines, the ZMT planned to host the "1st ZMT Workshop on Science for Sustainability – The Contribution of Transdisciplinary Knowledge Exchange" in January 2015.

Additionally, ZMT scientists advised, conducted workshops with, and wrote policy briefs for local stakeholders in the

tropical partner countries. Consulting services were offered to development agencies and corporations, for instance in relation to establishing Marine Protected Areas (MPAs). Also, the ZMT engaged directly with political authorities, funding bodies, public and private clients, and cooperation partners with the explicit intention of putting tropical coastal research on the agenda. The alumni office set up in 2014 also forms part of the OKE. In the near future, the OKE also pursues the goal to intensify its work at the science-business interface by increasing its capacities in technology transfer, proprietary processes, and industry cooperations.

Public Relations

The year 2013 saw the beginning of the ZMT's cooperation under the "Fictions meets Science" programme with popular science author Dr. Bernhard Kegel, who as part of his research for a new book accompanied ZMT scientists to the Red Sea and Galápagos Islands.

The institute's bi-annual English newsletter featuring research highlights and latest developments was distributed in print and digitally to more than 600 partners and stakeholders around the world.

Through its membership in the German Consortium of Marine Sciences (KDM) the ZMT benefits from the existing cooperation between the KDM and National Geographic, which has led to a number of contributions from ZMT scientists on the National Geographic website. Also, the institute's foreign staff was frequently featured on Deutsche Welle TV programmes. Special interest magazines such as *Koralle*, *DATZ* or *Meerwasseraquarianer* regularly published reports on ZMT projects. Other items made it onto national TV programmes (such as ARTE, 3sat or sat1) and were featured on radio shows and in special-interest articles.

In order to further strengthen the institute's presence in social media, the ZMT collaborated with students from the University of Bremen, who developed an online communication concept for the institute as part of a practice module. In June 2014, the ZMT won the second prize in a competition by renowned journal *GEO*. As a result, the winning project idea received some initial financial support from *GEO* through the crowdfunding platform *Sciencestarter*.

The ZMT regularly cooperates with regional science museums and takes part in exhibitions. The institute was able to draw the exhibition "Elisabeth Mann Borgese und das Drama der Meere" to the Haus der Wissenschaft in Bremen, and organised the accompanying programme of public talks and podia with members of its staff. Also, the institute contributed an interactive computer model representing a coral reef under environmental pressure to an exhibition about sustainability at the Haus der Wissenschaft. In this context, the ZMT led discussions with the University of Bremen and the Hochschule für Künste about transforming the model into a 3-D simulation. Moreover, the institute participated in an exhibition on the new

RV "Sonne" and took part in the European Maritime Day in Bremen, when several hundred visitors had the chance to find out more about the ZMT's contribution to German marine sciences.

The ZMT regularly opens the doors of its marine experimental facility (MAREE) to the interested public, and offers workshops, lectures (also in schools) and project days for pupils (Future Day) and students (Career Day). Starting in late 2013 and continuing in 2014, the ZMT focused on inviting leading local politicians (for instance Bremen's Senator for Finance Karoline Linnert) to visit the institute in order to increase public awareness about the ZMT's work, especially with partners in the tropics. The visit by Senator Linnert prompted one of the regional TV stations (RTL Nord) to take an interest in the work at the ZMT leading to plans for further cooperation.

In future, the ZMT will rethink its corporate design and a responsive design for the ZMT website is in the planning stage. Increased social media activities are also on the agenda with a view to generating more digital web-specific content in the long-term.



Infrastructure

Internationally competitive and visible research needs a sound foundation, which is provided by the infrastructure department. Here, experienced staff members offer a large number of services ranging from analytical methods, breeding and care of marine organisms, IT and library services, training in scientific diving, maintenance and day-to-day administrative tasks. In-depth practical training is provided for students and international guest researchers. All of these services are available to the ZMT's scientific departments and visiting cooperation partners, and against a fee also to external users.

The **biological laboratory** provides a wide range of biological research analyses. Light and fluorescence microscopic instruments enable researchers to observe and document organisms and samples. Fatty acid composition and enzyme kinetics can be determined. Furthermore, a molecular biology laboratory is in the process of being set up.

The **chemistry laboratory** supports scientists with a broad choice of analytical tools and a diverse set of laboratory and field equipment. Routine methods include measurements of amino acid composition,

fatty acid profiles, particle size distribution, micro-nutrient content, isotope ratios and element content.

In the **thin section** and **scanning electron microscopy (SEM)** laboratory staff members provide sample preparation and technical support for the study of microstructures with light microscope, SEM, and computer tomography.

The **MAREE** (Marine Experimental Ecology) facility supports field experiments and cultivates various tropical marine organisms from microalgae to reef fishes; ecophysiological experiments are performed on a broad range of organisms to analyse e.g. nitrogen fixation, or the impacts of water pollution and climate change.

The **IT unit** provides the computational infrastructure and all IT services necessary for a smooth running of the institute. This includes user-specific workplace equipment, database management, backup systems, cloud services, VPN access, print services and many more.

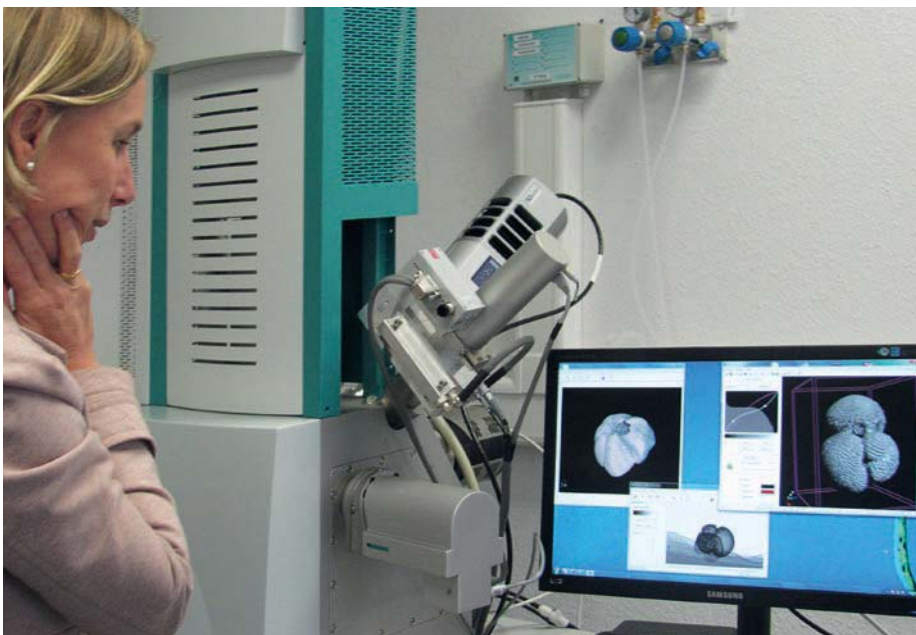
The ZMT's scientific library (**MEDIA unit**) supplies scientists and students with access to database searches and to

international journals with relevance to ZMT research topics. In line with its commitment to co-operative research, the ZMT introduced an Open Access Policy in 2014, which is implemented by the library staff.

Scientific diving is a prerequisite for many research projects at the ZMT. The institute's scientists perform a large part of their research underwater. Examples include reef ecology experiments and surveys, acquisition of environmental data, and sedimentological as well as biogeochemical sampling. The ZMT is a member of the German Commission for Research Diving (KFT) and in the process of becoming an official and government-approved training facility.

Facility management and **workshops/electronics** supplement the services offered at the ZMT. This includes maintaining the institute's facilities as well as producing custom-made analytical devices.

The **administration** is responsible for human resources management, project accounting, travel organisation and reimbursement, purchasing, legal affairs, budget planning and controlling as well as reporting.



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Publications

Articles in peer reviewed journals 2013

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Talks at conferences and workshops 2013

Abrams, J. (2013). Carbon: where is it, where does it go, and what role do we play? International Conference on Conservation Biology, 24 Jul 2013

Acevedo-Trejos, E. (2013). Phytoplankton community composition in contrasting regions at the Atlantic Ocean. Japan Agency for Marine Science and Technology, Japan, 11-17 Aug 2013

Acevedo-Trejos, E. (2013). Phytoplankton community size structure in the Atlantic Ocean: a trait-based modelling approach. Mini-symposium on trait evolution and adaptation, ZMT, Bremen, 12 Jun 2013

Acevedo-Trejos, E., Brandt, G., Merico, A. (2013). Emerging properties of phytoplankton community size structures in regions of contrasting environmental conditions of the Atlantic Ocean. Workshop: Trait-based approaches to ocean life, DTU-Aqua/ Royal Danish Academy of Science, Copenhagen, Denmark, 27 Aug 2013

Acevedo-Trejos, E., Brandt, G., Merico, A. (2013). Emerging properties of phytoplankton community size structures in regions of contrasting environmental conditions of the Atlantic Ocean. Joint Annual Conference of German Limnological Society and German Ecological Society, Potsdam, 09 Sep 2013

Alberts-Hubatsch, H., Nordhaus, I., Diele, K., Meynecke, J.-O., Lee, S.Y., Wolff, M. (2013). Movement of mud crabs in and between protected and non-protected areas in an enclosed embayment in South-East Australia. ATBC 2013 Association for Tropical Biology and Conservation, San José, Costa Rica, 26 Jun 2013

Brandt, G., Merico, A. (2013). A trait perspective on the use of ecological resources. 2nd Annual Meeting of Centre for Ocean Life, Sømine Stationen (Hobæk), Denmark, 11-12 Dec 2013

Brandt, G., Merico, A., Oliver, M. (2013). Sustaining phenotypic diversity in trait-based models of phytoplankton communities. Joint Annual Conference of German Limnological Society and German Ecological Society, Potsdam, 09-12 Sep 2013

Brandt, G., Merico, A. (2013). Sustainable harvest in a simple social-ecological system: an evolutionary dynamics approach. Conference Models in Population Dynamics and Ecology 2013, University of Osnabrück, 26-29 Aug 2013

Ekau, W. (2013). Physiological characteristics of plankton organisms and their role for ecosystem functioning. Forum of Benguela Current Commission, Windhoek, 24 Sep 2013

Ferrol-Schulte, D., Ferse, S.C.A., Glaser, M. (2013). Exploring drivers of natural resource exploitation in tropical coastal communities: patron-client systems, International Conference on Conservation Biology, Baltimore, USA, 22 Jul 2013

Ferrol-Schulte, D. (2013). Sustainable livelihoods of coastal communities on Zanzibar: GLOMAR PhD days 2013, Langwedel, 23 Apr 2013

Ferse, S.C.A., Glaser, M., Neil, M., Schwerdtner Mñáñez, K. (2013). Resilient communities in an unsustainable system? Coping strategies and social-ecological traps in the Spermonde coral reefs fishery. 7th Meeting of the European Association of South East Asian Studies, University of Lisbon, Portugal, 02-05 Jul 2013

Ferse, S.C.A., Glaser, M., Neil, M., Schwerdtner Mñáñez, K. (2013). Resilient communities in an unsustainable system? Coping strategies and social-ecological traps in the Spermonde coral reefs fishery. International Conference on Climate Change, Marine Life, and Livelihoods in the Center of the Coral Triangle, Makassar; Indonesia, 11 Sep 2013

Ferse, S.C.A. (2013). Marine social-ecological systems analysis. Workshop on Thai-German collaborative research program on marine sciences, Bangkok and Phuket, Thailand, 22 May 2013

Gärdes, A. (2013). Photoreactive siderophore in oceanic cycling. SAME Symposium on Aquatic Microbial Ecology, Stresa, Italy, 09 Sep 2013

Gärdes, A. (2013). Photoreactive siderophores in algae-bacteria interactions. Marine Science Station, University of Jordan, Aqaba, Jordan, 18 Jun 2013

Gärdes, A. (2013). The effects of eutrophication on microscale interactions relevant in marine snow formation. International workshop on Global Carbon Cycle and Climate Change, Institute for Marine Research, Bali, Indonesia, 01 Nov 2013

Glaser, M. (2013). Islands and Oceans - Potentials for adapting to global change. IMBIZO III: The future of marine biogeochemistry, ecosystems and societies, Goa, India, 28-31 Jan 2013

Glaser, M. (2013). Islands and Oceans: potentials for adapting to global change. International Conference on Island Development. Penghu, Taiwan, 03 Oct 2013

Glaser, M. (2013). Linking regional knowledge to global coastal and ocean research and governance. Future Ocean Alliance & Ocean Governance Task Force, Lisbon, Portugal, 13-14 Mar 2013

Glaser, M. (2013). The governance of marine science. Conference "Between use and protection of the marine environment – knowledge generation in interdisciplinary research contexts", Hanse-Wissenschaftskolleg (HWK), Delmenhorst, 18-19 Nov 2013

Harms, C. (2013). Food security, sustainable agriculture and forestry, marine and maritime and inland water research, and the bioeconomy. PACE-Net Plus Conference – Horizon 2020 information day, University of Technology, Sydney, Australia, 17 Dec 2013

Jennerjahn, T.C., Moll, R., Sebhatu, G., Sastranegara, M.H., Ardlı, E., Nordhaus, I. (2013). Sources and fate of mangrove organic matter in a human-impacted estuarine lagoon in Indonesia. ECSA53 Conference "Estuaries and coastal areas in times of intense change", Shanghai, China, 14 Oct 2013

Kunzmann, A. (2013). Improving seaweed farmers livelihoods through integrated multi-trophic aquaculture (IMTA) and high quality seaweed processing. Workshop "Seaweeds – aquaculture, processing and trade – developments and prospects", Jakarta Convention Center, Indonesia, 05 Oct 2013

Mann, T. (2013). Geomorphological adjustments of reef islands on Takuu Atoll. GLOMAR PhD Days, Langwedel, 22 Apr 2013

Merico, A., Acevedo-Trejos, E., Brandt, G. (2013). A trait-based approach for modelling changes in plankton community structures. 2nd Annual Meeting of Centre for Ocean Life, Sømine Stationen (Hobæk), Denmark, 11-12 Dec 2013

Merico, A., Brandt, G. (2013). A trait-based modelling perspective for social-ecological systems. Models in Population Dynamics and Ecology 2013, University of Osnabrück, 26-29 Aug 2013

Merico, A. (2013). Modelling adaptive phytoplankton communities. Mini-symposium on trait evolution and adaptation, ZMT Bremen, 12 Jun 2013

Meyer, F. (2013). Impacts of organic and anorganic carbon availability on coral-reef calcification. GLOMAR PhD days 2013, Langwedel, 23 Apr 2013

Miñarro Villanueva, S., Reuter, H. (2013). Individual-based models for the Management of Coral Reefs. International Conference on Marine Sciences 2013, Bogor, Indonesia, 04-05 Jun 2013

Naumann, M. (2013). Benthic primary production budget of a Caribbean reef lagoon. Annual workshop for project SymbioCORE, Lewes, Delaware, USA, 01 Dec 2013

Pülmans, N., Diele, K., Nordhaus, I., Mehlig, U., Saint-Paul, U. (2013). Sediment aeration and CO₂ efflux rate of *Ucides cordatus* burrows in a Brazilian mangrove forest. ATBC 2013 Association for Tropical Biology and Conservation, San José, Costa Rica, 25 Jun 2013

Reuter, H., Kubicek, A., Jopp, F., Breckling, B. (2013). Validation of individual-based models: a hierarchically structured approach to consider structural and qualitative implications. Joint Annual Conference of German Limnological Society and German Ecological Society, Potsdam, 09-12 Sep 2013

Reuter, H., Kubicek, A., Kruse, M. (2013). Analysing Biodiversity Dynamics and Conservation Issues - Application of an Individual-based Modelling Framework. International Conference on Marine Sciences 2013, Bogor, Indonesia, 04-05 Jun 2013

Conference Contributions

- Reuter, H., Muhando, C., Kubicek, A., Kruse, M.** (2013). An individual-based modelling framework to analyse biodiversity dynamics in coral reefs. 8th Symposium of the Western Indian Ocean Marine Science Association (WIOMSA), Maputo, Mozambique, 25 Oct - 02 Nov 2013
- Reuter, H.** (2013). Validation of individual based models. Workshop "Validation in the Natural Sciences – an Ancient and Evil God?", Gießen, 25-27 Feb 2013
- Saint-Paul, U.** (2013). Fish nutrition and aquaculture technology. Aquakulturforum, Bremerhaven, 18-19 Feb 2013
- Saint-Paul, U.** (2013). Mangrove management at the Gulf of Kutch, India for coastal protection and resilience to climate change. ATBC 2013 Association for Tropical Biology and Conservation, San José, Costa Rica, 20 Jun-01 Jul 2013
- Saint-Paul, U.** (2013). Mangrove management at the Gulf of Kutch. International Workshop on Mangroves to prepare project submissions to the Asia Pacific Network (APN) and to the UNESCO, Ho Chi Minh City, Vietnam, 07-14 Oct 2013
- Schwerdtner Máñez, K., Ferse, S.C.A.** (2013). A window into the past: the role of historical material in reconstructing marine resource use over time. 7th Meeting of the European Association of South East Asian Studies, University of Lisbon, Portugal, 02-05 Jul 2013
- Stuhr, M.** (2013). Inorganic nutrient input via river discharge and its influence on sedimentary parameters in coral reef habitats of Mae Haad (Koh Pha Ngan, Thailand). Eberhard Karls-Universität Tübingen, 2013
- Tarya, A.** (2013). Modelling of morphodynamics and biogeochemistry in Segara Anakan Lagoon. International workshop on 10th anniversary of UNSOED-ZMT collaboration in the frame of SPICE, Purwokerto, Indonesia, 28 Nov 2013
- Torres Guevara, L.E.** (2013). Collective action in a SES in Colombia. YOUARES: from coast to deep sea: multiscale approaches to marine science, University of Oldenburg, 12-13 Sep 2013
- Weber de Morais, G., Schlüter, A.** (2013). How can institutional analysis contribute to the understanding of the challenges of marine protected areas? 10th biennial conference of the European Society for Ecological Economics, Lille, France, 18-21 Jun 2013
- Weber de Morais, G., Schlüter, A.** (2013). Marine protected areas and the challenge of overcoming barriers rooted in the past. 19th annual International Sustainable Development Research Conference, Stellenbosch, South Africa, 01-03 Jul 2013
- Weber de Morais, G., Schlüter, A.** (2013). MPAs in Costa Rica: challenges and potential solutions. GLOMAR PhD Days, Langwedel, 22 Apr 2013
- Wolff, M.** (2013). Models as tools for managing fisheries- a 100 years perspective. Universidad de Magdalena, Colombia, 04 Jun 2013
- Wolff, M., Schlüter, A., Westphal, H.** (2013). SUTAS – a new graduate school at ZMT. 8th Symposium of the Western Indian Ocean Marine Science Association (WIOMSA), Maputo, Mozambique, 30 Oct-02 Nov 2013

Talks at conferences and workshops 2014

Abrams, J. (2014). The impacts of human induced degradation of Indonesian peatlands. Ocean Sciences Meeting, Honolulu, United States, 23-28 Feb 2014.

Acevedo-Trejos, E. (2014). Modelling phytoplankton community structure in the ocean. Mini-Symposium on Trait-based Approaches, ZMT, Bremen, 11 Nov 2014.

Audfroid Calderón, M., Krumme, U., Saint-Paul, U. (2014). Site fidelity and subtidal home range of the estuarine resident fish *Anableps anableps* in a north Brazilian mangrove. 2nd International Symposium on Mangroves as Fish Habitats: Ecology and Ecological Services, Mexico, 09 Apr 2014

Baum, G. (2014). Combined impacts of persistent organic pollutants and global warming on the coral reef fish *Siganis guttatus*. International Congress on the Biology of Fish, Heriot-Watt University, Edinburgh, United Kingdom, 03-04 Aug 2014

Bednarz, V. (2014). Seasonal variation of dinitrogen fixation and metabolic activity associated with two dominant zooxanthellate soft corals from the northern Red Sea. 4th CORE Symposium 2014, ZMT, Bremen, 13 Jun 2014

Bejarano Chavarro, S., Roff, G., Marshall, A., Chollet-Ordaz, I., Jouffray, J.-B., Steneck, R., Ferse, S.C.A., Mumby, P. (2014). Wave exposure a bidirectional force structuring herbivorous fish communities. Reef Conservation, London, United Kingdom, 06 Dec 2014

Brandt, G., Kulesz, M. (2014) Introduction to an experimental bioeconomics game: OGUMI. Workshop "Mathematical tools for understanding and managing fisheries", AIMS, Cape Town, South Africa, 05-10 May 2014

Brandt, G. (2014) The adaptive dynamics of human-resource interactions. Mini-Symposium on Trait-based Approaches, ZMT, Bremen, 11 Nov 2014

Breckwoldt, A. (2014). There will be plenty – the importance of local perceptions for small island marine resource use systems (with examples from Gau Island, Fiji). 13th Islands of the World Conference, Penghu Archipelago, Taiwan, 24 Sep 2014

Brocke, H. (2014). Causes and ecology of benthic cyanobacterial mats on Curaçao. FORCE meeting, Ontario, Canada, 30 Jun 2013

Cardini, U. (2014). Effects of heat stress and bleaching on C and N₂ fixation by Red Sea hard coral holobionts. 4th CORE Symposium 2014, ZMT, Bremen, 13 Jun 2014

Cerutti, N. (2014). Resource changes and cooperative behaviour. 3rd European Conference of the International Association for the Study of the Commons, Umeå, Sweden, 15-19 Sep 2014

Cerutti, N. (2014). Resource changes and cooperative behaviour. Workshop "Lab, Field or Natural Field Experiments", Bloomington, United States, 20 Jun 2014

Ekau, W. (2014). Elucidating climate impact on the Benguela fisheries system. Workshop "Rethinking Paradigms and Approaches in Fisheries Research", ZMT, Bremen, 21 Mar 2014

Ekau, W. (2014). Physiological characteristics of early life stages of fish and implications for the recruitment of the species. Benguela Current Commission Forum, Swakopmund, Namibia, 14 Oct 2014

Ekau, W. (2014). Physiological characteristics of plankton organisms and their role for ecosystem functioning: results from GENUS I and II. IMBER Ocean Science Conference, Bergen, Norway, 23-27 Jun 2014

Ekau, W. (2014). Physiological characteristics of plankton organisms and their role for ecosystem functioning. 5th Annual Science Forum of the Benguela Current Commission, Windhoek, Namibia, 24 Sep 2014

Ekau, W. (2014). Potential contribution of capacity development in ocean governance. 16th Consultative Committee Meeting of Large Marine Ecosystems, Paris, France, 09-11 Jul 2014

Ekau, W. (2014). The role of MADAM project for the ZMT, the German scientific landscape and for the mangrove research. Colloquium On Mangroves and Mankind, ZMT, Bremen, 14 Mar 2014

Ekau, W. (2014). Tropical large marine ecosystems best practices. 3rd Global Large Marine Ecosystems Conference, Swakopmund, Namibia, 08-10 Oct 2014

Ekau, W. (2014). West African fleet. Kick-off workshop AWA project, Dakar, Senegal, 24-27 Sep 2014

Ferse, S. (2014). Potentials for research and collaboration in the South Pacific region. South Pacific Workshop, ZMT, Bremen, 26 Feb 2014

Geist, S. (2014). Distribution and condition of coastal pelagic larvae in relation to environmental conditions in the northern Benguela Current. Johan Hjort Symposium on Recruitment Dynamics and Stock Variability, Bergen, Norway, 07-09 Oct 2014

Glaser, M. (2014) Transformation in future earth – some thoughts. Workshop German Future Earth Summit, Berlin, 27 Jun 2014

Glaser, M. (2014). Die Zukunft der DGH. Conference on Urbanity and Human Ecology, Sommerhausen, 16 May 2014

Conference Contributions

- Glaser, M.** (2014). The role of MADAM project for the ZMT, the German scientific landscape and for the mangrove research from the perspective of social science. Colloquium on Mangroves and Mankind. ZMT, Bremen, 14 Mar 2014
- Hoytema, N. van** (2014). Carbon fixation by Red Sea coral primary producers: the influence of seasonality. 4th CORE Symposium 2014, ZMT, Bremen, 13 Jun 2014
- Jennerjahn, T., Jänen, I.** (2014). Hydrological regulations, land use and a mud volcano affecting the sediment and carbon load of the tropical Brantas River, Java, Indonesia. The Face of the Earth. European Geosciences Union Conference, Vienna, Austria, 30 Apr 2014
- Jennerjahn, T.** (2014). Modeling morphodynamics and biogeochemistry processes of a tropical coastal lagoon, Segara Anakan, Indonesia. International SPICE III workshop, UNSOED, Purwokerto, Indonesia, 30 Sep 2014
- Jennerjahn, T.** (2014). Terrestrial influences on mangrove ecology and sustainability of their resources. SPICE III workshop, ZMT, Bremen, 10 Dec 2014
- Kaiser, D., Herbeck, L.** (2014). Effects of aquaculture effluents on nitrogen characteristics in two Chinese estuaries. LOICZ workshop on system states and transitions of tidal estuaries, Hamburg, 04-05 Sep 2014
- Kluger, L.** (2014). Carrying capacity simulations as a tool for ecosystem-based management of a scallop aquaculture system. Ecopath Conference, IMS, Barcelona, Spain, 10 Nov 2014
- Kruse, M.** (2014). How do fragmented seascape influence movement decision of reef fishes? ECEM Conference, University Cadi Ayyad, Marrakesh, Morocco, 27 Oct 2014
- Kunzmann, A.** (2014). River reef impact studies II: is the degradation of Nha Trang coral reefs a function of multiple stressors? WESTPAC 9th International Scientific Symposium, Nha Trang, Vietnam, 22-25 Apr 2014
- Kunzmann, A.** (2014). Status report: Impacts of marine pollution on biodiversity and coastal livelihoods. International SPICE III workshop, UNSOED, Purwokerto, Indonesia, 30 Sep 2014
- Lara, R.** (2014). Ergebnisse der Gebietsanalyse: Bangladesh. Gesundheit in den veränderten Tropen, Senckenberg, Frankfurt a.M., 24 Sep 2014
- Merico, A.** (2014). A modelling investigation of the coral reef paradox. 4th CORE Symposium 2014, ZMT, Bremen, 13 Jun 2014
- Merico, A.** (2014). A trait-based modelling perspective for social-ecological systems. Workshop "Mathematical tools for understanding and managing fisheries: synthesizing and refining data and models", AIMS, Senegal, 07-09 May 2014
- Merico, A.** (2014). A trait-based perspective for modelling changes in plankton community structure. DFG project Kick-off meeting, Leipzig, 06-08 Oct 2014
- Merico, A.** (2014). Sustaining diversity in trait-based models of phytoplankton communities. AMEMR Symposium. Plymouth, United Kingdom, 29 Jun-03 Jul 2014
- Merico, A.** (2014). The adaptive capacity of multitrophic plankton communities in a changing ocean. DFG, Potsdam, 25-26 Mar 2014
- Merico, A.** (2014). Trait diffusion as a mechanism to sustain phytoplankton diversity. Mini-Symposium on Trait-based Approaches, ZMT, Bremen, 11 Nov 2014
- Meyer, F.** (2014). The effect of elevated dissolved organic and inorganic carbon on the physiology of coral reef calcifiers. 4th CORE Symposium 2014, ZMT, Bremen, 13 Jun 2014
- Moosdorf, N.** (2014). SED as nutrient supply of ecosystem around tropical islands. ICBM, Oldenburg, 25 Nov 2014
- Moosdorf, N.** (2014). Submarine groundwater discharge from tropical islands – a hidden nutrient pathway from land to sea. 5th Early Career Scientists Conference for Marine and Climate Research, Bremen, 21-23 Oct 2014
- Mösinger, A.** (2014). Understanding of rapid environmental change on Takuu Atoll. 2nd International Symposium on Climate Justice, Klimahaus, Bremerhaven, 19 Nov 2014
- Müller, P.** (2014). Oxygen isotope records of archaeological catfish otoliths: evidences for seasonal monsoon discharge during the Mid-Holocene NW Africa. Dynamik des Systems der Erde, GeoFrankfurt, Frankfurt, 23 Sep 2014
- Naumann, M.** (2014). Effect of xeniid soft coral pulsation on O₂ availability in coral-algae interaction zones. 4th CORE Symposium 2014, ZMT, Bremen, 13 Jun 2014
- Nordhaus, I.** (2014). Effects of environmental change on invertebrate biodiversity and population dynamics with emphasis on important mangrove resources. International SPICE III workshop, UNSOED, Purwokerto, Indonesia, 29 Sep 2014
- Raharinirina, A.** (2014). A simple trait-based model for describing symbiotic relationships. Mini-Symposium on Trait-based Approaches, ZMT, Bremen, 11 Nov 2014
- Rehren, J.** (2014). Modelling the multispecies fishery of Chwaka Bay, Zanzibar – basis for exploration of use and conservation scenarios. Ecopath Conference, IMS, Barcelona, Spain, 10 Nov 2014
- Reuter, H.** (2014). Applying individual-based models in marine environments. Helmholtz Umweltforschungszentrum, Leipzig, 14 Jan 2014
- Reuter, H.** (2014). Understanding and managing the resilience of coral reefs and associated social systems. SPICE III workshop, ZMT, Bremen, 10 Dec 2014
- Rix, L.** (2014). Uptake and assimilation of coral and algae-derived dissolved organic matter by Red Sea reef sponges. 4th CORE Symposium 2014, ZMT, Bremen, 13 Jun 2014
- Rixen, T.** (2014). Benguela Upwelling System: A sink or source of CO₂ to the atmosphere. IMBER Ocean Science Conference, Bergen, Norway, 23-27 Jun 2014
- Rixen, T.** (2014). Carbon sequestration in the Indonesian seas and its global significance. SPICE III workshop, ZMT, Bremen, 10 Dec 2014
- Schlüter, A.** (2014). Conservation and economics. Warmadewa University, Denpasar, Indonesia, 13-30 Jan 2014
- Schlüter, A., Elba Torres, L., Kulesz, M.** (2014). Economic experiments and sustainable behaviour of fishers in Colombia. Ökologisches Kolloquium, University of Bremen, 04 Dec 2014
- Schlüter, A.** (2014). Madrigal, R., How to motivate people to stop harvesting turtle eggs? An experimental perspective for an NGO in Nicaragua. Kolloquium für Umweltsysteme, Osnabrück, 03 Dec 2014
- Schlüter, A.** (2014). Marine social science. IPB, Bogor, Indonesia, 13-30 Jan 2014
- Schlüter, A.** (2014). Sustainable behaviour of fishers. Universitas Riau, Pekanbaru, Indonesia, 14-22 Dec 2014
- Schlüter, A.** (2014). What works best in convincing local shop owners in Indonesia to help distribute reusable bags? Universitas Riau, Pekanbaru, Indonesia, 14-22 Dec 2014
- Schlüter, A.** (2014). Madrigal, R., Crowding out and PES schemes for turtle eggs: an experiment with Nicaraguan fishermen. Workshop "Lab, Field or Natural Field Experiments", Bloomington, United States, 17-23 Jun 2014
- Schmalz, S.** (2014). Abundance and development of coral-algae interactions in coral reefs of the Mexican Caribbean. 4th CORE Symposium 2014, ZMT, Bremen, 13 Jun 2014
- Shahraki, M.** (2014). Intertidal fish community structure in mangrove-lined and unvegetated creeks of Qeshm Island, Persian Gulf. 2nd International Symposium on Mangroves as Fish Habitats: Ecology and Ecological Services, Mexico, 07-10 Apr 2014
- Stuhldreier, I.** (2014). Coral reef functioning in upwelling influenced reefs at the Pacific coast of Costa Rica. YOUNARES Conference, Stralsund, 12 Sep 2014
- Stuhldreier, I.** (2014). One-year monitoring of coral reef functioning in upwelling-influenced Northwestern Costa Rica. 4th CORE Symposium 2014, ZMT, Bremen, 13 Jun 2014
- Taylor, M.** (2014). Towards an ecosystem approach to fisheries in the Northern Humboldt Current System. Ecopath Conference, IMS, Barcelona, Spain, 12 Nov 2014

Conference Contributions

Vane, K. (2014). Habitat use and connectivity of the Brazilian weakfish by CSIA of otoliths. International Otolith Symposium, Mallorca, Spain, 19-28 Oct 2014

Westphal, H. (2014). Ergebnisse der Gebietsanalyse: Myanmar: Gesundheit in den veränderten Tropen, Senckenberg, Frankfurt a.M., 24 Sep 2014

Westphal, H. (2014). Tropical coasts – hotspots of change. International Bioeconomic Conference, Leibniz-Institut für Pflanzenbiochemie, Halle, 21-22 May 2014

Wiedling, J. (2014). Abundances and distribution of planktonic larvae of *Echinodermata* and *Anthozoa* during Northwest monsoon in coastal waters of the Khánh Hoà province, Vietnam. WESTPAC 9th International Scientific Symposium, Nha Trang, Vietnam, 22-25 Apr 2014

Wild, C. (2014). Functional ecology of corals and their reefs in the Red Sea. Red Sea Research Center, KAUST, Saudi Arabia, 01 Sep 2014

Wizemann, A., Mann, T., Westphal, H. (2014). Halimeda sediments: implications for the interpretation of carbonate sediment origin and transport. Dynamik des Systems der Erde, GeoFrankfurt, Frankfurt a.M., 20-24 Sep 2014

Wolff, M. (2014). Ergebnisse der Gebietsanalyse: Zanzibar: Gesundheit in den veränderten Tropen, Senckenberg, Frankfurt a.M., 24 Sep 2014

Wolff, M. (2014). Past and current trends in MPA research and management – ecological rationale for MPA creation. SUTAS Summer School, Bremen, 22-29 Aug 2014

Wolff, M. (2014). Sea sparing vs. sea sharing – has our fishery paradigm changed? CONCIMAR Symposium, Lima, Peru, 27 Jun 2014

Wolff, M. (2014). Simulating the combined effect of El Niño and the ban of the industrial fishery on the Galapagos Marine Reserve – an exploratory analysis using EwE. Ecopath Conference, IMS, Barcelona, Spain, 09-14 Nov 2014

Zimmer, M. (2014). Mangrove conservation. Brazil-Germany Workshop “Cooperation in Ocean Science & Technology”, Fortaleza, Brazil, 25-29 May 2014

Poster presentations 2013

Alberts-Hubatsch, H., Diele, K., Nordhaus, I., Meynecke, J.-O., Lee, S.Y., Wolff, M., Babcock, R., Pillans, R. (2013). Going with the flow: Migratory patterns of the female mud crab *Scylla serrata* (Forskål). Australian Animal Tagging and Monitoring System (AATAMS) National Workshop 2013, University of Queensland, North Stradbroke Island, Queensland, Australia, 13-15 Nov 2013

Baum, G., Kegler, P., Kunzmann, A. (2013). Environmental stressors on coral reefs. IOPAC Conference, Denpasar, Bali, Indonesia, 18-21 Jun 2013

Ferrol-Schulte, D. (2013). Livelihood diversification and food security in coastal communities of Zanzibar. 8th Symposium of the Western Indian Ocean Marine Science Association (WIOMSA), Maputo, Mozambique, 25 Oct-02 Nov 2013

Gärdes, A., Triana, C., Amin, S.A., Green, D.H., Romano, A., Trimble, L., Carrano, C.J. (2013). The role of photoreactive siderophores in algae-bacteria interactions and importance in the oceanic biogeochemical iron cycle. SAME Symposium on Aquatic Microbial Ecology, Stresa, Italy, 08-13 Sep 2013

Harms, C. (2013). ZMT PhD Programme, YOUMARES: from coast to deep sea: multiscale approaches to marine science, University of Oldenburg, 12 Sep 2013

Jennerjahn, T. (2013) Organic Matter Input and Cycling in the Sundarban Mangrove Ecosystem, India and Bangladesh. 10th Annual Meeting Asia Oceania, Geosciences Society, Brisbane, Australia, 24-28 Jun 2013

Jennerjahn, T.C., Zhang, J., Wang, D.R., Dsikowitzky, L., Wu, Y., Liu, S.M., Krumme, U., Roder, C., Herbeck, L., Unger, D. (2013). Land-based human activities affecting coastal ecosystems of tropical China, Hainan – scientific results and management recommendations of the LANCET project. ECSA53 Conference, Shanghai, China, 13-17 Oct 2013

Kegler, P., Baum, G., Kunzmann, A. (2013). Stressing coral reefs. YOUMARES: from coast to deep sea: multiscale approaches to marine science, University of Oldenburg, 11-13 Sep 2013

Kegler, P., Hansen, W., Holtmann, R., Kroll, S., Neumann, S., Ramsch, B., Sellner, B., Soltmann, C., Wittka, S., Lohmeyer, M., Rezwan, K., Kunzmann, A. (2013). ILAR - Improved larval rearing. Aquaculture Forum Workshop III, Bremerhaven, 18-19 Feb 2013

Kumar, A., Prasad, M.B.K., Jennerjahn, T., Ramanathan, A.L. (2013). Organic matter input and cycling in the Sundarban mangrove ecosystem, India and Bangladesh. 10th Annual Meeting Asia-Oceania, Geosciences Society, 24-28 Jun 2013

Müller, P., Klicpera, A., López Correa, M., Vernet, R., Tous, P., Westphal, H. (2013). $\delta^{18}O$ records of catfish otoliths (*Arius heudelotii*) and their potential for paleoclimatological reconstructions. International Sclerochronological Conference, Bangor, United Kingdom, 18-22 May 2013

Taylor, M. (2013). A spatially defined ecosystem approach to bivalve carrying capacity estimation: The case of scallop culture in Sechura Bay, Peru. Conference in Monitoring and Evaluation of Spatially Managed Areas (MESMA), Lisbon, Portugal, 08-10 Oct 2013

Wizemann, A., Meyer, F.W., Westphal, H. (2013). Acidification impacts on the microstructure in calcifying green algae. Leibniz Conference on Biodiversity, Botanical Institute, Berlin, 16-18 Apr 2013

Wizemann, A., Meyer, F.W., Westphal, H. (2013). Acidification impacts on the microstructure in calcifying green algae. 8th International Conference on Coelenterate Biology (ICCB), Eilat, Israel, 01-05 Dec 2013

Wolff, M., Schlüter, A., Westphal, H. (2013). SUTAS – a new graduate school at ZMT. 8th Symposium of the Western Indian Ocean Marine Science Association (WIOMSA), Maputo, Mozambique, 30 Oct-02 Nov 2013

Poster presentations 2014

Alberts-Hubatsch, H. (2014). A smelly playground: mangroves as nursery sites for the commercial mud crab *Scylla serrata* (Forskål, 1775). Symposium “Turning the Tide on Mangrove Loss”, London, United Kingdom, 06-08 Nov 2014

Belshe, E.F. (2014). Linking carbon sink potential to community composition within highly diverse seagrass meadows of the Indo Pacific. COST Conference “Seagrass in Europe: Threats, Responses and Management”, Olhao, Portugal, 03-07 Mar 2014

Contreras-Rosales, L.A., Jennerjahn, T., Tharammal, T., Meyer, V., Lücke, A., Schefuß, E. (2014). Evolution of the Indian summer monsoon eastern branch and terrestrial vegetation since the last glacial. European Geosciences Union Conference, Vienna, Austria, 30 Apr 2014

Flohr, A. (2014). Carbon pumps in the Benguela Upwelling System. IMBER Ocean Science Conference, Bergen, Norway, 23-27 Jun 2014

Ford, A., van Hoytema, N., Moore, B., Wild, C., Ferse, S.C.A. (2014). Sedimentary oxygen consumption as an effective process indicator of organic matter stress on coral reefs. Reef Conservation, London, United Kingdom, 06 Dec 2014

Forke, S., Rixen, T. (2014). Laminated sediments of the Northern Arabian Sea: tracking climatic and human impacts on late holocene erosion and weathering intensities in SW Asia. European Geosciences Union Conference, Vienna, Austria, 27 Apr-02 May 2014

Geist, S. (2014). Early life history of coastal pelagic fish species in the northern Benguela Upwelling System - advantage for Cape Horse Mackerel. IMBER Ocean Science Conference, Bergen, Norway, 23-27 Jun 2014

Herbeck, L., Kwiatkowski, C., Mohtadi, M., Jennerjahn, T. (2014). Late Holocene carbon and nitrogen input into the Java Sea recorded in sediment cores off rivers from Java and Kalimantan. European Geosciences Union Conference, Vienna, Austria, 26 Apr-02 May 2014

Herrán-Navarro, N., Westphal, H. (2014). Developing ecosystem health index to assess the changes in Changuu coralline island, Zanzibar. Ocean Science Meeting, Honolulu, United States, 23-28 Feb 2014

Research Projects

Jennerjahn, T., Gesierich, K., Schefuß, E., Mohtadi, M. (2014). Variations in organic matter burial and composition in sediments from the Indian Ocean continental margin off SW Indonesia (Sumatra - Java - Floras) since the last glacial maximum. AGU Fall Meeting, San Francisco, USA, 13-22 Dec 2014

Kluger, L., Wolff, M., Taylor, M.H. (2014). Carrying capacity simulations as a tool for ecosystem-based management of a scallop aquaculture system. Ecopath Conference, IMS, Barcelona, Spain, 09-14 Nov 2014

Kluger, L. (2014). Modelando flujos tróficos en una bahía del Perú Bajo - El impacto del cultivo intensivo de concha de abanico (*Argopecten purpuratus*). CONCIMAR Symposium, Lima, Peru, 24-28 Jun 2014

Mann, T., Schöne, T., Rovero, A., Yanuarita Satari, D., Westphal, H. (2014). Reconstructing past sea-level in the Spermonde Archipelago, SW Sulawesi, Indonesia. International Sedimentological Congress, Genf, Switzerland, 17-22 Aug 2014

Sappal, S.M., Jennerjahn, T., Ramanathan, A. (2014). Tracing organic matter sources in a tropical mangrove ecosystem (Pichavaram, India) - a stable isotopic approach. European Geosciences Union Conference, Vienna, Austria, 27 Apr-02 May 2014

Shahraki, M., Krumme, U., Rixen, T. (2014). Microphytobenthos sustain intertidal fish production in the Persian Gulf (Northern Indian Ocean). European Geosciences Union Conference, Vienna, Austria, 27 Apr-02 May 2014

Stuhr, M. (2014). (Reverse) Proteomics as novel tool for biodiversity research - Larger Benthic Foraminifera. International Bioeconomic Conference, Leibniz-Institut für Pflanzenbiochemie, Halle, 21-22 May 2014

Stuhr, M., Reymond, C., Sickmann, A., Kucera, M., Meyer, A., Westphal, H. (2014). (Reverse) Proteomics as novel tool for biodiversity research - applications on foraminifera. Computational Molecular Analysis Summer School, ICBM, Terramare, Wilhelmshaven, 29 Sep-02 Oct 2014

Stuhr, M., Westphal, H., Schoenig, E.M., Wild, C. (2014). Geobiological assessment of river discharge influences on a coral reef, Gulf of Thailand. Dynamik des Systems der Erde, GeoFrankfurt, Frankfurt, 20-24 Sep 2014

Wit, F., Müller, D., Rixen, T. (2014). Degraded peatlands as a source of riverine organic carbon and enhanced river outgassing in Sumatra, Indonesia. The Face of the Earth. European Geosciences Union Conference, Vienna, Austria, 26 Apr-02 May 2014

Witt, V. (2014). Marine Mesocosm bacterial colonisation of volcanic ash. AGU Fall Meeting, San Francisco, USA, 16-19 Dec 2014

Research projects

2013 - 2014

Funded by the Arbeitsgemeinschaft industrieller Forschungsvereinigungen (AiF)

ExCoRe: Experimental Coral Reproduction. Subproject, Effect of biotic and abiotic factors on the settlement of planulae and coral fragments'. A. **Kunzmann**, 2014-2017. MAREE (industry project).

ILAR: Improved larval raising. Subproject ,Diversification and quality improvement of zooplankton for high-value rearing of marine fish larvae'. A. **Kunzmann**, 2011-2013. MAREE (industry project).

Funded by the Alexander von Humboldt Foundation

Research Alumni: Implementation of an alumni strategy. H. **Westphal**, 2014-2015 (individual grant).

Funded by the German Federal Ministry of Education and Research (BMBF)

AWA: Ecosystem approach to the management of fisheries and the marine environment in West African waters. Subproject ,Coordination'. W. **Ekau**, 2013-2015. Angola (subproject of integrated project, coordinator: IRD).

AWA: Ecosystem approach to the management of fisheries and the marine environment in West African waters. Subproject ,Variability of pelagic productivity in West-African waters'. W. **Ekau**, 2013-2015. Angola (subproject of integrated project, coordinator: Institut de recherche pour le développement).

CARIMA: Natural versus anthropogenic controls of past monsoon variability in Central Asia recorded in marine archives. Subproject ,Pearl River catchment - human-induced changes'. T. **Jennerjahn**, 2011-2014. India (subproject of joint project, coordinator: MARUM).

CARIMA: Natural versus anthropogenic controls of past monsoon variability in Central Asia recorded in marine archives. Subproject ,Silicate weathering and soil erosion'. T. **Rixen**, 2011-2015. Arabic Sea (subproject of joint project, coordinator: MARUM).

GENUS II: Geochemistry and ecology of the Namibia upwelling system. Subproject ,Impact of climate induced environmental changes on biological processes in higher trophic levels: the reaction of early life stages of fish from the Namibian shelf'. W. **Ekau**, A. **Kunzmann**, 2012-2015. Namibia (subproject of joint project, coordinator: University of Bremen, University of Hamburg).

GENUS II: Geochemistry and ecology of the Namibia upwelling system. Subproject ,Impact of climate induced environmental changes upon the biological pump'. T. **Rixen**, 2012-2015. Namibia (subproject of joint project, coordinators: University of Bremen, University of Hamburg).

REPICORE: Resilience of Pacific Island coral reef social-ecological systems in times of global change. Subproject ,Fish community assessment'. S. **Ferse**, 2013-2018. Pacific (individual grant).

REPICORE: Resilience of Pacific Island coral reef social-ecological systems in times of global change. Subproject ,Marine resource use and coastal livelihood'. S. **Ferse**, 2013-2018. Pacific (individual grant).

SGD-Nut: Submarine groundwater discharge from tropical islands as nutrient supply for marine ecosystems. N. **Moosdorf**, 2014-2018. Indonesia (individual grant).

SPICE III - CAFINDO: Climate versus anthropogenic forcing of Late Holocene environmental change affecting Indonesian marine, coastal, and terrestrial ecosystems. Subproject ,Gradients in carbon and nutrient input'. T. **Jennerjahn**, 2012-2016. Indonesia (subproject of joint topic, coordinator: MARUM).

SPICE III - CISKA: Carbon sequestration in the Indonesian Seas and its global significances. Subproject ,Capacity Building'. T. **Rixen**, 2012-2016. Indonesia (subproject of joint topic, coordinator: ZMT).

SPICE III - CISKA: Carbon sequestration in the Indonesian Seas and its global significances. Subproject ,Coastal ecosystem degradation'. A. **Merico**, 2012-2016. Indonesia (subproject of joint topic, coordinator: ZMT).

SPICE III - CISKA: Carbon sequestration in the Indonesian Seas and its global significances. Subproject ,Development of economic regulatory mitigation strategies'. A. **Schlüter**, 2012-2016. Indonesia (subproject of joint topic, coordinator: ZMT).

SPICE III - CISKA: Carbon sequestration in the Indonesian Seas and its global significances. Subproject ,Marine carbonate system'. T. **Rixen**, 2012-2016. Indonesia (subproject of joint topic, coordinator: ZMT).

SPICE III - MABICO: Impacts of marine pollution on biodiversity and coastal livelihoods. Subproject ,Capacity Building'. S. **Ferse**, 2012-2015. Indonesia (subproject of joint topic, coordinator: ZMT).

SPICE III - MABICO: Impacts of marine pollution on biodiversity and coastal livelihoods. Subproject ,Coastal livelihoods and food security'. S. **Ferse**, 2012-2015. Indonesia (subproject of joint topic, coordinator: ZMT).

SPICE III - MABICO: Impacts of marine pollution on biodiversity and coastal livelihoods. Subproject ,Effect of environmental stressors on ecophysiology'. A. **Kunzmann**, 2012-2015. Indonesia (subproject of joint topic, coordinator: ZMT).

Research Projects

SPICE III - MaCoRAS: Understanding and managing the resilience of coral reefs and associated social systems. Subproject ‚Capacity Building‘. H. Reuter, 2012-2016. Indonesia (subproject of joint topic, coordinator: ZMT).

SPICE III - MaCoRAS: Understanding and managing the resilience of coral reefs and associated social systems. Subproject ‚Coral reef functioning and environmental drivers‘. M. Teichberg, H. Reuter, C. Wild, 2012-2015. Indonesia (subproject of joint topic, coordinator: ZMT).

SPICE III - MaCoRAS: Understanding and managing the resilience of coral reefs and associated social systems. Subproject ‚Modelling reef dynamics‘. H. Reuter, 2012-2016. Indonesia (subproject of joint topic, coordinator: ZMT).

SPICE III - MaCoRAS: Understanding and managing the resilience of coral reefs and associated social systems. Subproject ‚Social drivers of coral reef resilience‘. M. Glaser, H. Reuter, 2012-2016. Indonesia (subproject of joint topic, coordinator: ZMT).

SPICE III - TIMES: Terrestrial influences on mangrove ecology and sustainability of their resources. Subproject ‚Capacity Building‘. T. Jennerjahn, 2012-2016. Indonesia (subproject of joint topic, coordinator: ZMT).

SPICE III - TIMES: Terrestrial influences on mangrove ecology and sustainability of their resources. Subproject ‚Effects of environmental change‘. I. Nordhaus, 2012-2016. Indonesia (subproject of joint topic, coordinator: ZMT).

SPICE III - TIMES: Terrestrial influences on mangrove ecology and sustainability of their resources. Subproject ‚Lagoon dynamic stages and mangrove extension‘. T. Jennerjahn, 2012-2016. Indonesia (subproject of joint topic, coordinator: ZMT).

SPICE III - TIMES: Terrestrial influences on mangrove ecology and sustainability of their resources. Subproject ‚Systems transformations‘. K. Schwerdtner, 2012-2016. Indonesia (subproject of joint topic, coordinator: ZMT).

SPICE III: Science for the Protection of Indonesian Coastal Marine Ecosystems. ‚Coordination and Capacity Building‘. H. Westphal, 2011-2016. Indonesia. (joint programme, coordinator: ZMT).

Funded by the German Academic Exchange Service (DAAD)

Harvest: Harvest behaviour in common pools resource systems – Data analysis and modelling of dynamic decision making. G. Brandt, 2014-2017. Senegal (individual grant).

Funded by the German Research Foundation (DFG)

BIORESICO: Reconstructing the biogeochemical response of Indonesian coastal ecosystems to environmental change during the late Quaternary as recorded by marine sediment cores along the Sumatra-Java-Flores transect. T. Jennerjahn, 2010-2013. Indonesia (individual grant).

BIOVIBEN: Role of estuarine biogeochemistry on abundance and types of *Vibrio cholerae* in West Bengal. Seasonality and relation with cholera incidence. R. Lara, U. Saint-Paul, 2010-2013. India (individual grant).

CANCOR: Carbon and nitrogen fixation of coral reefs in response to environmental factors. C. Wild, 2011-2015. Jordan (individual grant).

DynaTrait: Flexibility Matters: Interplay between trait diversity and ecological dynamics using aquatic communities as model systems. Subproject ‚Modelling the adaptive capacity of plankton communities on a changing ocean (ADACAP)‘. A. Merico, 2014-2017. Global (subproject in DFG priority programme, coordinator: University of Potsdam).

Funded by the European Union (EU)

FORCE: Future of reefs in a changing environment: an ecosystem approach to managing Caribbean coral reefs in the face of climate change. Subproject ‚Ecological processes on coral reefs‘. M. Nugues, C. Wild, 2010-2014. Caribbean (subproject of joint project, coordinator: University of Exeter).

PACE-Net Plus: Pacific-Europe Network for Science, Technology and Innovation. Work packages 2, 3, 5, 6, and 7. ‚Strengthening the EU-Pacific ST&I cooperation in the field of climate action, resource efficiency and raw materials‘. C. Harms, S. Ferse, K. Schwerdtner, 2013-2016. Pacific (joint network project, coordinator: Institut de recherche pour le développement).

SymbioCoRe: Synergies through merging biological and biogeochemical expertise in coral research. C. Wild, M. Naumann, 2012-2015. Brazil (joint staff exchange project, coordinator: University of Exeter).

Funded by the Austrian Science Fund (FWF)

Significance of intraspecific variation for decomposition processes. M. Zimmer, 2014-2016. Brazil (individual grant).

Funded by the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)
GIZ. CSM-CMPA: Conservation and sustainable management of coastal and marine protected areas. M. Glaser, T. Jennerjahn, A. Schlüter, 2013-2015. India (individual grant).

Funded by the International Office of the BMBF

INFLOW: Using intertidal fish to study life's tolerance to low oxygen. A. Kunzmann, 2014-2016. New Zealand (individual grant).

Interdependencies between Kerala rivers and backwaters: Consequences for water quality, aquatic organisms, economy and environmental governance; Kerala, India. T. Jennerjahn, 2010-2013. India (individual grant).

Response of early life-history stages of pelagic and demersal fish to hypoxia under different temperature regimes in the Benguela and Angola Currents system. W. Ekau, 2010-2013. Angola (individual grant).

SASCA: Sustainability analysis of scallop cultivation in Sechura Bay, Peru. M. Wolff, 2013-2015. Peru (individual grant).

Funded by the Leibniz Competition

Reverse Proteomics as a novel tool for biodiversity research. H. Westphal, 2014-2017. MAREE (subproject of joint project, coordinator Leibniz-Institut für Analytische Wissenschaften)

SUTAS: Sustainable use of tropical aquatic systems (Leibniz Graduate School). M. Wolff, T. Rixen, H. Westphal, A. Schlüter, H. Reuter, 2013-2016. Tanzania (joint programme, coordinator: ZMT).

Triple C: Contribution to coral commons (subproject ‚Ethnographic assessment‘. A. Schlüter, 2014-2017. Indonesia (subproject of joint project, coordinator: ZMT).

Triple C: Contribution to coral commons. Subproject ‚Integration‘. A. Schlüter, 2014-2017. Indonesia (subproject of joint project, coordinator: ZMT).

Triple C: Contribution to coral commons. Subproject ‚Natural field experiments‘. A. Schlüter, 2014-2017. Indonesia (subproject of joint project, coordinator: ZMT).

Triple C: Contributions to coral commons. Subproject ‚Ecological assessment‘. A. Schlüter, S. Ferse, 2014-2017. Indonesia (subproject of joint project, coordinator: ZMT).

Funded by the Volkswagen Foundation (VW)

New regional formations: Rapid environmental change and migration in coastal regions of Ghana and Indonesia. Subproject ‚Economic strategies of households‘. A. Schlüter, 2013-2016. Ghana, Indonesia (subproject of joint project, coordinator: artec, University of Bremen)

New regional formations: Rapid environmental change and migration in coastal regions of Ghana and Indonesia. Subproject ‚Environmental change‘. H. Westphal, 2013-2016. Ghana, Indonesia (subproject of joint project, coordinator: artec, University of Bremen)

Funded by the ZMT

Adaptation of Innovation. A. Schlüter, 2012-2014 (individual project).

Analysing phase shifts in coral systems. H. Reuter, S. Ferse, 2011-2014. Tanzania, Indonesia (individual project).

Benthic reef community composition, herbivory, and sedimentary metabolism, Kho Pha Ngan, Thailand. C. Wild, 2010-2014. Thailand (individual project).

Research Projects

Biogeochemical and ecological modelling. A. **Merico**, 2010-2015. Global (individual project).

Biogeochemical characterisation of Costa Rica coastal waters and effects of upwelling on acidification of coastal waters. T. **Rixen**, A. **Merico**, 2012-2015. Costa Rica (subproject of joint project).

Characterisation of coastal sediments along a coastal pH gradient. H. **Westphal**, 2012-2014. Costa Rica (subproject of joint project).

Coastal and estuarine Ichthyoplankton biodiversity and transport in West Africa. W. **Ekau**, 2013-2016. West Africa (individual project).

Coastal resource, livelihoods and innovation. M. **Glaser**, A. **Schlüter**, S. **Ferse**, W. **Ekau**, A. **Kunzmann**, K. **Schwerdtner**, M. **Wolff**, 2011-2014. Tanzania (individual project).

COGA: Functional role of carbonate secreting organisms in upwelling and non-upwelling zones of the Galapagos marine ecosystem. M. **Wolff**, H. **Westphal**, 2012-2015. Galápagos (individual project).

Collective use of sea-turtle eggs in Central America. A. **Schlüter**, 2012-2014. Costa Rica (individual project).

Comparative assessment of trophic structure and resource productivity of Eastern Pacific Tropical Ecosystem of the Seascape Region. M. **Wolff**, 2011-2014. Ecuador (individual project).

CoPoReSm: Common pool resources on smartphones. M. **Kulesz**, G. **Brandt**, 2014-2015 (individual Postdoc project).

Coral Reef Ecology. C. **Wild**, 2010-2014. Red Sea (individual project).

Coral reef ecology along a coastal pH gradient. C. **Wild**, 2012-2015. Costa Rica (subproject of joint project).

Early-Stress: New methods for early detection of (environmental) stress in fish and invertebrates—development of a toolbox. A. **Kunzmann**, 2014-2016. Indonesia, Vietnam, New Zealand (individual project).

Effects of bottom-up versus top-down factors on reef functioning, Red Sea, Saudi Arabia and Egypt. C. **Wild**, 2010-2015. Red Sea, Saudi Arabia, Egypt (individual project).

Element and stable isotope analysis as means for comparative investigations on life performance at different time scales. W. **Ekau**, H. **Westphal**, 2014-2016. Mauretania, Senegal, South Africa, Indonesia, Brazil (individual project).

EPOXI: Effect of soft coral pulsation on dissolved oxygen availability and hard coral mortality in interactions with benthic macroalgae. M. **Naumann**, A. **Meyer**, 2014-2014. Jordan (individual Postdoc project).

Evolution of Cooperation. A. **Merico**, A. **Schlüter**, 2011-2015 (individual project).

Geocology. H. **Westphal**, 2010-2015. Costa Rica, Galápagos, Indonesia (individual project).

Habitat connectivity and meta-populations of coastal fish species off Brazil. U. **Saint-Paul**, W. **Ekau**, 2011-2013. Brazil (individual project).

How do shocks and disturbances in resource variability affect cooperation in social-ecological systems? A. **Schlüter**, A. **Merico**, G. **Brandt**, 2012-2015. Jacobs Social Science lab (individual project).

Human adaptation to a changing environment. A. **Schlüter**, 2012-2015. Costa Rica (subproject of joint project).

Junior Research Group: Algae and Seagrass Ecology. M. **Teichberg**, 2012-2016. Indonesia (individual project).

Junior Research Group: Sea Level and Coastal Changes. (jointly with MARUM). A. **Rovere**, 2014-2019. Mediterranean (individual project).

Junior Research Group: Tropical Marine Microbiology. A. **Gärdes**, 2012-2016. Indonesia (individual project). Leibniz Chair: Social Anthropology. H. **Westphal**, 2012-2015. Papua New Guinea (individual project).

LiCor-OA: Expected limits of coral calcification under ocean acidification. A. **Meyer**, S. **Hohn**, 2014-2014. MAREE (individual Postdoc project).

Linkage between biodiversity and mangrove ecosystem functions and services. I. **Nordhaus**, T. **Jennerjahn**, T. **Rixen**, U. **Saint-Paul**, 2011-2014. Brazil (individual project).

Mangrove ecology. M. **Zimmer**, 2014-2018. Brazil (individual project).

MEFLED: Modelling system use scenarios under conditions of change. M. **Wolff**, 2014-2015. Peru, Brazil, Costa Rica, Indonesia (individual project).

Modelling framework to analyse trophic interactions. H. **Reuter**, 2012-2015. Indonesia (individual project).

Modelling the crystal morphology and magnesium incorporation of aragonite in dependence on the solution chemistry. S. **Hohn**, C. **Reymond**, 2014 (individual Postdoc project).

Movement patterns, habitat use and habitat dimension of tropical estuarine crabs. I. **Nordhaus**, 2011-2014. Australia (individual project).

MPAs that work: Institutional solutions for sustainable control and marine systems. M. **Glaser**, 2011-2015. Indonesia, Brazil (individual project).

Patterns of fish habitat use in tidal mangroves of different landscape complexity. H. **Reuter**, W. **Ekau**, 2011-2014. Brazil (individual project).

Physiological acclimation and adaptation of organisms in tropical intertidal systems. A. **Kunzmann**, 2011-2014. MAREE (individual project).

Population dynamics of key fish species. W. **Ekau**, M. **Wolff**, 2011-2013. West Africa, MAREE (individual project).

Reducing the consumption of plastic bags in Indonesia. A. **Schlüter**, 2012-2015. Indonesia (individual project).

Funded by the ZMT and scholarships

Catchment scale human interventions in the Pamba basin and their impact on estuarine ecosystems in the southern Vembanad estuary. T. **Jennerjahn**, A. **Kunzmann**, 2011-2013. India (individual project and grant: German Academic Exchange Service).

Environmental impact and social implications of ecotourism in marine protected areas (MPA): Application of an agent based modelling approach. H. **Reuter**, 2012-2015. Thailand (individual project and grant: Chinese Scholarship Council).

Mangroves as fish habitat in an arid environment along the Persian Gulf, Iran. U. **Saint-Paul**, 2012-2014. Iran (individual project and grant: Iran Stipend).

The role of benthic algae in coral reef resilience, Colombian Caribbean. C. **Wild**, 2011-2014. Colombia (individual project and grant: German Academic Exchange Service).

Full external funding

Adaptive trait modelling of freshwater management and sanitation on coral atoll islands in Indonesia. A. **Merico**, 2012-2015. Indonesia (individual project, funded by Jacobs University).

Community participation in marine protected area (MPA) establishment process in Indonesia. M. **Glaser**, 2012-2015. Indonesia (individual grant: German Academic Exchange Service).

Food web dynamics in estuarine ecosystems of southern Gulf of Mexico. U. **Saint-Paul**, 2010-2013. Mexico (individual grant: Katholischer Akademischer Ausländer-Dienst).

Impact of ocean acidification and temperature on global coral reef distribution. A. **Merico**, 2010-2015. Global (individual grant: Chinese Scholarship Council).

Marine protected areas expansion in Costa Rica: impact on local communities, their reaction towards the expansion and how this response might influence MPAs performance. A. **Schlüter**, 2012-2015. Costa Rica (individual project, funded by the Bremen International Graduate School for Marine Sciences).

Nitrogen fixation of coral reefs in response to irradiance and eutrophication – from organism to ecosystem level. C. **Wild**, 2012-2014. Jordan (individual grant: Evangelisches Studienwerk).

Scenarios for social-ecological transformation. K. **Schwerdtner**, 2011-2014. Tanzania (individual grant: Evangelisches Studienwerk).

The fishery and population dynamics of the fish stocks in the Rift Valley Lake Koka, Ethiopia. M. **Wolff**, 2012-2015. Ethiopia (individual grant: Deutscher Akademischer Austauschdienst).

Research Stays and Expeditions

The role of carbonate secreting organisms on sediment composition, redistribution, and modification on clastic shelves and their potential as environmental bioarchives. H. **Westphal**, 2009-2013. Mauritania (individual project: funded by MARUM).

The social-ecological system framework and coastal zone management in Colombia. A. **Schlüter**, 2011-2015. Colombia (individual grant: Deutscher Akademischer Austauschdienst).

The temporal and spatial variability of nursery habitats for fishes in mangroves of Colombia and Brazil. U. **Saint-Paul**, 2010-2013. Colombia, Brazil (individual grant: Deutscher Akademischer Austauschdienst).

Research Stays and Expeditions

2013

Alberts-Hubatsch, H., Field work, Gold Coast, Australia, 26 Sep 2012-31 Mar 2013

Baum, G., Field work, Jakarta Bay; Seribu Islands, Indonesia, 01 May-21 Sep 2013

Bednarz, V., Field work, MSS, Aqaba, Jordan, 09 Jan-25 Apr 2013

Belshe, F.E., Field work, IMS, Zanzibar; Tanzania, 08 Sep-20 Okt 2013

Bröhl, S., Field work, Universidad Agraria La Molina, Lima, Peru, 02-12 Mar 2013

Cardini, U., Field work, MSS, Aqaba, Jordan, 09 Jan-25 Apr 2013

Castellanos-Galindo, G.A., Field work, Cemarín, Santa Marta, Colombia, 30 Jun-22 Aug 2013

Ferrol-Schulte, D., Field work, Spermonde, Indonesia, 07-24 Oct 2013

Ferse, S., Field work, Dahab, Egypt, 14-28 Feb 2013

Ferse, S., Field work, Spermonde, Indonesia, 26 Jan-11 Feb 2013

Flohr, A., Monitoring, expedition on RV Meteor, M100 / GENUS II, Walvis Bay, Namibia, 30 Aug-05 Oct 2013

Gärdes, A., Project meeting, Marine Science Station, University of Jordan Aqaba, Jordan, 16-22 Jun 2013

Gorris, P., Field work, Indonesia, 01 Sep 2012-01 Mar 2013

Herrán-Navarro, N., Field work, IMS, Zanzibar; Tanzania, 08 Sep-20 Okt 2013

Hoeijmakers, D., Field work, IMS, Zanzibar; Tanzania, 03 Sep-21 Okt 2013

Katikiro, R., Field work, Zanzibar; Tanzania, 15 Nov 2012-10 Jan 2013

Kegler, P., Field work, Jakarta Bay; Seribu Islands, Indonesia, 01 May-21 Sep 2013

Klicpera, A., Field work, Makassar, Indonesia, 03-20 Oct 2013

Kluger, L., Field work, Universidad Agraria La Molina, Lima, Peru, 27 Feb-27 Aug 2013

Kruse, M., Field work, Coral Eye Research Station, Bangka Island, Indonesia, 20 Jul-28 Sep 2013

Kunzmann, A., Field work, Vietnam, 15-31 May 2013

Mann, T., Field work, Makassar; Indonesia, 03-20 Oct 2013

Miñarro Villanueva, S., Field work, Makassar; Indonesia, 26 Jan-17 Feb 2013 and 26 May-09 Jun 2013

Naumann, M., Field work, Dahab, Egypt, 4-28 Feb 2013

Naumann, M., Field work, MSS, Aqaba, Jordan, 09-31 Jan 2013

Peterke, D., Field work, RSS Maria S. Merian, 02-23 Oct 2013

Plass-Johnson, J., Field work, Indonesia, 11 Sep 2012-12 Mar 2013

Pülmanns, N., Field work, Universidade do Para, Brazil, 04 Feb-26 Apr 2013 and 12 Aug-31 Aug 2013

Rehren, J., Field work, Zanzibar; Tanzania, 02 Jul-13 Aug 2013

Reuter, H., Field work, Makassar; Indonesia, 26 May-09 Jun 2013

Reymond, C., Field work, Galápagos, Ecuador, 10 Mar-10 Apr 2013

Rix, L., Field work, MSS, Aqaba, Jordan, 09 Jan-25 Apr 2013

Rixen, T., Monitoring, research cruise with RV Meteor: Pelagic communities off Southern Africa, 02-23 Oct 2013

Schwerdtner Máñez, K., Monitoring, field work, Spermonde Archipelago, Indonesia, 26 Jan-17 Feb 2013

Shahraki, M., Field work, Qeshun Island, Teheran, Iran, 06 May-28 Sep 2013

Shahraki, M., RV Poseidon cruise, 23 Apr-01 May 2013

Sloterdijk, H., Field work, Jakarta, Indonesia, 31 Oct 2012-01 Apr 2013

Stuhldreier, I., Field work, Dahab, Egypt, 14-28 Feb 2013

Tompkins, P., Field work, Galápagos, Ecuador, 28 Jan-21 Jul 2013

Torres Guevara, L.E., Field work, Colombia, 01 Sep 2012-01 Apr 2013

van Hoytema, N., Field work, MSS, Aqaba, Jordan, 09 Jan-25 Apr 2013 and 25 Aug-11 Dec 2013

Wang, F., Field work, Thailand, 27 Dec 2012-08 Feb 2013

Wild, C., Field work, Dahab, Egypt, 14-28 Feb 2013

Wild, C., Field work, MSS, Aqaba, Jordan, 09-18 Jan 2013

Wild, C., Field work, Playa del Coco, Costa Rica, 01-30 Apr 2013

Wit, F., Field work, Indonesia, 30 Mar-19 Apr 2013

Wizemann, A., Sampling, Playa Del Coco, Costa Rica, 05-31 May 2013 and 09-28 Jun 2013

Wolff, M., Field work, Universidad Agraria La Molina, Lima, Peru, 27 Feb-15 Mar 2013 and 19 May-08 Jun 2013

2014

Baitoningsih, W., Field work, Riau, Sumatra, Indonesia, 01-20 Dec 2014

Baitoningsih, W., Field work, South Sulawesi, Indonesia, 01 Oct 2013-30 Apr 2014

Baum, G., Field work, Jakarta, Indonesia, 11 May-27 Jun 2014

Belshe, F.E., Field work, Zanzibar; Tanzania, 08 Sep-30 Oct 2014

Bröhl, S., Field work support, New Zealand, 21 Nov-14 Dec 2014

Bröhl, S., Field work support, Zanzibar; Tanzania, 06-24 Oct 2014

Cakacaka, A., Field work, Melanesia, 04 Dec 2013-13 Jan 2014

Cakacaka, A., Field work, Melanesia; Australia, 01 Sep 2014-31 Jul 2015

Cardenas Barbosa, A.J., Field work, Thuwal, Saudi Arabia, 07 Aug-06 Dec 2014

Döring, J., Field work, Dakar; Senegal, 01 Nov 2013-01 Nov 2014

Döring, J., Monitoring, expedition on RV Thalassa, Senegal; Gambia, 10-17 Mar 2014

Döring, J., Monitoring, expedition on RV Walther Herwig III, Gran Canaria, Spain; Morocco; Mauritania, 19 Jun-13 Jul 2014

Ekau, W., Field work, Dakar; Senegal, 03-10 Nov 2014

Ferrol-Schulte, D., Field work, Indonesia, 07-24 Oct 2014

Ferse, S., Field work, Fiji; New Caledonia, 17-26 Nov 2014

Events

Ferse, S., Training, University of Hawaii, Hawaii, United States, 31 Mar-31 May 2014

Ford, A., Field work, Papua New Guinea, 02-29 May 2014

Gärdes, A., Field work, Spermonde Archipelago, Indonesia, 30 Apr-04 Jun 2014

Ghosh, A., Field work, Chennai, India, 09 Nov 2013-07 May 2014 and 05 Nov 2014-05 Feb 2015

Gillis, L.G., Field work, Chwaka Bay, Zanzibar; Tanzania, 11-19 Oct 2014

Gillis, L.G., Laboratory work, NIOZ Royal Netherlands Institute for Sea Research, Hornje, Netherlands, 27 Oct-22 Nov 2014

Goldbach, C., Field work, Keta, Ghana, 20 Jul-16 Aug 2014

Goldbach, C., Field work, Semarang, Indonesia, 20 Aug-14 Sep 2014

Helber, S., Field work, Zanzibar; Tanzania, 31 Dec 2013-13 Apr 2014 and 03 Sep-7 Dec 2014

Herrán, N., Field work, Zanzibar; Tanzania, 23 Aug-09 Nov 2014

Hoeijmakers, D., Field work, IMS, Zanzibar; Tanzania, 17 Sep-09 Dec 2014

Javaid, A., Field work, IMS, Zanzibar; Tanzania, 05 Apr-23 Jun 2014

Kegler, P., Field work, Spermonde Archipelago, Indonesia, 12 Apr-27 Jun 2014

Kluger, L., Field work, Sechura Bay, Peru, 26 Jan-26 Jul 2014

Kruse, M., Field work, Coral Eye Research Station, Bangka Island, Indonesia, 28 Jan-25 Feb 2014

Kulesz, M., Field work, Sechura Bay, Peru, 26 Jan-07 Feb 2014

Kunzmann, A., Field work preparation, Udayana-University (UNUD), Denpasar, Indonesia, 23 Mar-04 Apr 2014

Kunzmann, A., Field work, New Zealand, 21 Nov-14 Dec 2014

Kunzmann, A., Monitoring, expedition on RV Meteor; M103-I, Walvis Bay, Namibia, 25 Dec 2013 -19 Jan 2014

Mann, T., Kick-off field work, Accra, Ghana, 23-28 Mar 2014

Miñarro Villanueva, S., Field work, Indonesia, 01 Nov-29 Dec 2014

Miñarro Villanueva, S., Field work, Tasmania, Australia, 29 Dec 2014-20 Jun 2015

Mösinger, A., Field work, Takuu Atoll, Papua New Guinea, 01 Apr 2013-18 May 2014

Narayan, G., Field work, Zanzibar; Tanzania, 23 Aug-09 Nov 2014

Peterke, D., Field work support, Costa Rica, 09 Apr-02 May 2014

Pint, U., Field work support, Zanzibar; Tanzania, 19 Oct-15 Nov 2014

Plass-Johnson, J., Field work, Indonesia, 07 Nov 2014-14 Jan 2015

Pogoreutz, C., Field work, Thuwal, Saudi Arabia, 03 Jun 2014-01 Feb 2015

Rehren, J., Field work, Zanzibar; Tanzania, 31 Dec 2013-30 Apr 2014 and 01 Sep-15 Dec 2014

Reymond, C., Field work, Zanzibar; Tanzania, 23 Aug-12 Sep 2014

Rix, L., Field work, Zanzibar; Tanzania, 13 Jan-15 Mar 2014

Rohe, J., Field work, Fiji; New Caledonia, 23 Nov-06 Dec 2014

Sánchez Noguera, C., Field work, Marina Papagayo, Costa Rica, 31 Oct 2012-31 Jan 2014

Schlüter, A., Field work, Keta, Ghana, 03-14 Aug 2014

Schlüter, A., Field work, Pekambaru, Indonesia, 14-21 Dec 2014

Schwieder, H., Field work, Spermonde Archipelago, Indonesia, 12 Apr-27 Jun 2014

Sloterdijk, H., Field work, Dakar, Senegal, 22 Sep 2013-01 Oct 2014 and 03-27 Dec 2014

Spranz, R., Field work, Bali, Indonesia, 01 Jan-23 May 2014 and 25 Jul-31 Dec 2014

Stuhldreier, I., Field work, Playa del Coco, Costa Rica, 17 Mar 2013-27 May 2014

Stuhr, M., Field work, Florida Keys, United States, 03-18 Dec 2014

Taylor, M., Field work, Sechura Bay, Peru, 09-16 Jan 2014

Tompkins, P., Field work, Galápagos, Ecuador, 26 Feb-12 Oct 2014

van Hoytema, N., Field work, Manus Island, Papua New Guinea, 02 May-06 Jun 2014

Vane, K., Field work, Sample collection, Paranaíba; Bragança, Brazil, 19 Nov-15 Dec 2014

Weber de Morais, G., Field work, San José, Costa Rica, 31 Aug 2013-26 Jan 2014

Westphal, H., Kick-off field work, Accra, Ghana, 23-28 Mar 2014

Wild, C., Field work, Thuwal, Saudi Arabia, 13-22 Sep 2014

Events

Events organised or hosted by the ZMT 2013

Workshop "Nutrition and finfish aquaculture technology at the crossroads". At: Aquaculture Forum Bremerhaven (co-organised by: U. **Saint-Paul**), 18-19 Feb 2013

Workshop "Developmental trends and diversification in European aquaculture". At: Aquaculture Forum Bremerhaven (co-organised by: U. **Saint-Paul**), 18-19 Feb 2013

Workshop "Validation in the Natural Sciences – an ancient and evil God?." Gießen, (co-organised by H. **Reuter**), 25-27 Feb 2013

Workshop on marine science cooperation with and in South Africa. ZMT, Bremen (organised by: W. **Ekau**), 08-09 Apr 2013

Workshop on marine area planning and management. ZMT, Bremen (organised by: M. **Glaser**), 12-13 Jun 2013

Mini-symposium "Trait evolution and adaption". ZMT, Bremen (organised by: A. **Merico**, E. **Acevedo-Trejos**), 12 Jun 2013

Workshop YouMangRes (Young Mangrove Researchers). At: ATBC 2013 Association for Tropical Biology and Conservation. San José, Costa Rica (organised by: U. **Saint-Paul**), 21-27 Jun 2013

SUTAS Summer School "Marine Protected Areas as management tools for coastal ecosystems". ZMT, Bremen (organised by: C. **Harms**), 21-23 Aug 2013

Session "Washed away by a flood of data: which kind of synthesis do we need?." At: Joint Annual Conference of German Limnological Society and German Ecological Society. Potsdam (co-organised by: H. **Reuter**, A. **Kubiczek**), 09-12 Sep 2013

YOUMARES: from coast to deep sea: multiscale approaches to marine science. University of Oldenburg (co-organised by M. **Einsporn**), 11-13 Sep 2013

Session "Importance of coral reefs for coastal zones: services, threats, protection strategies". At: YOUMARES: from coast to deep sea: multiscale approaches to marine science. University of Oldenburg (organised by: C. **Jessen**, A. **Wolf**), 11-13 Sep 2013

Session "What's up with coral reefs?". At: YOUMARES: from coast to deep sea: multiscale approaches to marine science. University of Oldenburg (organised by: H. **Brocke**), 11-13 Sep 2013

Sino-German Summer School "Dynamics in atmosphere and ocean coupling. Ocean University of China, Qingdao, China (co-organised by: H. **Pfuhl**), 02-13 Sep 2013

Events

Workshop on business and science for a sustainable European aquaculture. ZMT, Bremen (co-organised by: U. **Saint-Paul**), 23-24 Sep 2013

37th Annual Conference of the German Association of Marine Science Libraries and Information Centers. ZMT, Bremen (organised by: C. **Fromm**), 21 Oct 2013

Conference "Between use and protection of the marine environment – knowledge generation in interdisciplinary research contexts". Hanse-Wissenschaftskolleg (HWK), Delmenhorst (organised by: M. **Glaser**), 18-19 Nov 2013

10th anniversary of UNSOED – ZMT collaboration in the frame of SPICE. Jenderal Soedirman University, Purwokerto, Indonesia (organised by: T. **Jennerjahn**, I. **Nordhaus**), 27-28 Nov 2013

Symposium on trait-based approaches and other tools to better understand coral reef functioning (TRAITCORE). ZMT, Bremen (organised by A. **Merico**, C. **Wild**), 16 Dec 2013

2014

AK "Internationalization of the Leibniz-Gemeinschaft". ZMT, Bremen (organised by: C. **Harms**), 07 Feb 2014

South Pacific workshop. ZMT, Bremen (organised by: S. **Ferse**), 26 Feb 2014

Celebratory colloquium on mangroves and mankind. ZMT, Bremen (organised by: C. **Harms**), 14-15 Mar 2014

Symposium "Future challenges to mangrove research" (organised by: C. **Harms**), 14 Mar 2014

Workshop "Rethinking paradigms and approaches in fisheries research". ZMT, Bremen (organised by: M. **Wolff**), 20-21 Mar 2014

Kick-off seminar young investigator group. ZMT, Bremen (organised by: A. **Rovere**), 03 Apr 2014

Workshop "Mathematical tools for understanding and managing fisheries". AIMS, Cape Town, South Africa (organised by: W. **Ekau**, A. **Merico**, G. **Brandt**), 05-10 May 2014

Graduate symposium "Career paths in marine and climate sciences". Haus der Wissenschaft, Bremen (co-organised by: C. **Harms**), 23 May 2014

Brazil-Germany workshop "Cooperation in ocean science & technology". Fortaleza, Brazil, (co-organised by: W. **Ekau**), 27-28 May 2014

Social science symposium. ZMT, Bremen (organised by: A. **Schlüter**), 12-14 Jun 2014

4th CORE symposium 2014. ZMT, Bremen (organised by: C. **Wild**), 13 Jun 2014

Pace-Net Plus conference. Haus der Wissenschaft, Bremen (organised by: C. **Harms**), 09-11 Sep 2014

Session "Opportunities and Solutions – Research For Our Changing Oceans", YOUMARES Conference, Stralsund (organised by: U. **Cardini**), 10-12 Sep 2014

Session "Mangrove forests - an endangered ecological and economic transition zone between ocean and land", YOUMARES Conference, Stralsund (organised by: N. **Pülmanns**), 10-12 Sep 2014

Lecture series "Women in Science". ZMT, Bremen (organised by: C. **Harms**), 17 Sep 2014

Seminar "A trait-based approach for modelling changes in plankton community structures". EAWAG, Dübendorf, Switzerland (organised by: A. **Merico**), 17-19 Sep 2014

International SPICE III workshop. UNSOED, Purwokerto, Indonesia (organised by: T. **Jennerjahn**), 29-30 Sep 2014

Mini-symposium on trait-based approaches. ZMT, Bremen (organised by: A. **Merico**), 11 Nov 2014

SPICE III workshop. ZMT, Bremen (organised by: C. **Schultz**), 10-11 Dec 2014

Guest lectures at the ZMT 2013

Dr. Ali **Al-Sawalmih**, Marine Science Station of Aqaba, Jordan. Distribution and orientation of biominerals in marine skeletons investigated using synchrotron x-ray diffraction. 05 Jun 2013

Prof. Dr. Ulrich **Bathmann**, Leibniz-IOW, Rostock. New aspects of IOW research. 23 Jan 2013

Lutz **Becks**, MPI for Evolutionary Biology, Plön, Germany. Why rapid, adaptive evolution matters for community dynamics. 12 Jun 2013

Susana **Costas**, National Lab. for Energy and Geology, Portugal. Looking for signs of change. 24 Jun 2013

Prof. Dr. Anton **Eisenhauer**, Helmholtz-Zentrum für Ozeanforschung, Kiel. Deciphering pathways and processes of ions from seawater to the site of calcification by using traditional and non-traditional isotope systems. 19 Jun 2013

Prof. Dr. Anja **Engel**, GEOMAR, Kiel. Dynamics of extracellular organic matter in a changing ocean. 06 Mar 2013

Prof. Amatzia **Genin**, Hebrew University of Jerusalem, Israel. The Benefit of pulsation in soft corals. 13 Jun 2013

Dr. Leopold C. **Gerhardinger**, Centre for Environmental Studies, University of Campinas, Brazil. Marine protected areas governance in Brazil: challenges and opportunities. 12 Jun 2013

Carina **Goldbach**, Georg-August-University, Göttingen. The effect of development aid on economic development in Africa. 20 Dec 2013

Prof. Dr. Tobias **Haller**, University of Bern, Switzerland. Natural resource management and the role of institutional change: Insights from social anthropology. 04 Sep 2013

Gideon **Kivengea**, University of Nairobi, Kenya. Estimating coastal marine fish abundances and landing trends in the Kenyan coast, 1990 – 2012. 30 Oct 2013

Prof. Emilio **Marañón**, Universidad de Vigo, Departamento de Ecología y Biología Animal, Vigo, Spain. Breaking rules: temperature- and size-dependence of phytoplankton metabolism. 27 Nov 2013

Yvonne **Milker**, University of Hamburg, FRG. Relative sea-level reconstructions using microfossil-based transfer functions. 24 Jun 2013

Prof. Dr. Valeria **Pizarro**, Center of Excellence in Marine Sciences (CEMARin), Santa Marta, Colombia. First steps towards reef rehabilitation in Colombia – a national program. 11 Dec 2013

Prof. Dr. Hugh **Possingham**, University of Queensland, Australia. SUTAS-ZMT Summer School: Decision science for conservation. 28 Aug 2013

Dr. **Purwanto**, The Nature Conservation, Semarang, Indonesia. Support conserving the marine mega biodiversity in Raja Ampat and bird's head seascape, West Papua – Indonesia by The Nature Conservancy Indonesia marine program. 13 Aug 2013

John P. **Rapaglia**, Sacred Heart University, USA. The impact of sea level rise on groundwater-seawater interaction in the coastal zone. 24 Jun 2013

Alessio **Rovere**, Lamont Doherty Earth Observatory, USA. Sea levels in the past: open windows into different climates. 24 Jun 2013

Carlos Adrián **Sánchez Caballero**, Instituto Politécnico Nacional, Centro Interdisciplinario de Ciencias Marinas, Baja, California Sur, Mexico. Links between fish community structure and habitat complexity of a rocky reef in the Gulf of California. 02 Oct 2013

Prof. Dr. Sabine **Schlacke**, University of Bremen. World in transition: a social contract for sustainability. 30 Jan 2013

Dr. Heidi **Schuttenberg**, University of Aberdeen, United Kingdom. Marine protected areas governance in Brazil: challenges and opportunities. 12 Jun 2013

Prof. Dr. Matthias **Ullrich**, School of Engineering & Science, Jacobs University, Bremen. Molecular dissection of marine diatom-bacteria interactions. 12 Jun 2013

Prof. Dr. Jan van **Tatenhove**, Wageningen University and Research Centre, Netherlands. SUTAS-ZMT Summer School: MPAs and MSP: processes of marine scaping and power. 22 Aug 2013

Prof. Dr. Christian **Voolstra**, KAUST, Saudi Arabia. Coral reef genomics in the Red Sea. 09 Oct 2013

Events

Dr. Samantha **Williams**, Environmental Evaluation Unit (EEU), University of Cape Town, South Africa. Small-scale fisheries reform in South Africa: Sharing experiences and lessons from the development of the Olifants estuary management plan (OEMP). 21 Oct 2013

Prof. Doug **Wilson**, Aalborg University Research Centre, Denmark. European mixed fisheries as a complex commons. 03 Apr 2013

Dr: Max **Wisshak**, Senckenberg am Meer; Wilhelmshaven. Effects of ocean acidification versus global warming on reef bioerosion - lessons from a clionid sponge. 16 Jan 2013

Prof. Dr. Fernando **Zapata**, CEMarin, Universidad del Valle, Colombia. Accumulating knowledge on the biodiversity of tropical Pacific and Atlantic marine fishes: historical dynamics of species descriptions and their correlates. 04 Dec 2013

Ruben **Zondervan**, Earth System Governance Lund University, Sweden. Earth System Governance: How we govern human-ocean relationships. 20 Nov 2013

Guest lectures at the ZMT 2014

Prof. Shankar **Aswani**, Rhodes University, Grahamstown, South Africa. People and reefs: issues and methods. 26 Feb 2014

Prof. Shankar **Aswani**, Rhodes University, Grahamstown, South Africa. The GULLS Project (Global learning for local solutions: Reducing vulnerability of marine-dependent coastal communities) - an international project funded by the Belmont Forum. 27 Sep 2014

Dr: Regina **Bacalso**, University of the Philippines, Cebu City, Philippines. Investigating fisheries impacts of illegal/destructive fishing in the Philippines. 20 Mar 2014

Dr: Uta **Berger**, Technical University, Dresden. Individual-based mangrove ecology: from basic principles to predictive theory. 14 Mar 2014

Dr: Katharina **Beyerl**, Institute of Advanced Sustainable Studies (IASS), Potsdam. Tales from the South Pacific – Studying the perception of climate related environmental changes and adaptation strategies in Pacific Small Island States. A psychologist's experience. 18 Jun 2014

Prof. Dr. Bernd **Blasius**, ICBM, University of Oldenburg. Marine bioinvasion in the network of global shipping connections. 05 Feb 2014

Tsany Ratna **Dewi**, University Leuphana, Lüneburg. Economics welfare valuation in the case of Indonesia. 19 Mar 2014

Dr: Ilka C. **Feller**, SERC, Smithsonian Institution, Edgewater, United States. The sensitivity of coastal ecosystems of climate change. 14 Mar 2014

Dr: Sarah **Freed**, Portland State University, United States. Determining management priorities and strategies for coral reefs and people. 14 Oct 2014

Dr: Ulrich **Frey**, Justus-Liebig-University, Gießen. Analysing ecological success in natural resource management with artificial neural networks. 19 Feb 2014

Dr: Rainer **Froese**, Helmholtz Centre for Ocean Research, Kiel. New approaches for the management of data-limited fisheries. 20 Mar 2014

Charlotte **Gough**, Blue Ventures, London, United Kingdom. Making marine conservation make sense: incentivising community based fisheries management in Madagascar. 05 Mar 2014

Dr: Hans Peter **Grossart**, IGB Leibniz Institute for Freshwater Ecology and Inland Fisheries, Berlin. Bacterial life-styles. 17 Nov 2014

Annika **Guse**, University of Heidelberg, Heidelberg. Aiptasia – an emerging laboratory model to dissect the molecular basis of coral symbiosis. 13 Jun 2014

Prof. Dr. Dierk **Hebbeln**, MARUM, Bremen. Climate versus anthropogenic forcing of Late Holocene environmental change affecting Indonesian marine, coastal, and terrestrial ecosystems. 10 Dec 2014

Dr: Roland **Hergenroder**, ISAS, Leibniz-Institut für Analytische Wissenschaften, Dortmund. Interfaces in chemistry and biology. 02 Jul 2014

Prof. Dr. Helmut **Hillebrand**, University of Oldenburg, Oldenburg. Running to stand still: biodiversity and stability in a changing world. 21 May 2014

Prof. Dr. Heribert **Hofer**, Leibniz-Institut für Zoo- und Wildtierforschung, Berlin. Life in the matriarchy: sex-specific roles and their hormonal basis. 12 Feb 2014

Dr: Narriman S. **Jiddawi**, University of Dar es Salaam, Zanzibar, Tanzania. SUTAS-ZMT Summer School: Women in science: Women empowerment at grass root level along the coast. 27 Aug 2013

Jean-Baptiste **Jouffray**, Stockholm Resilience Center, Stockholm, Sweden. Identifying multiple coral reef regimes and their drivers across the Hawaiian Archipelago. 03 Sep 2014

Ute **Klamert**, Deutsche Gesellschaft für Internationale Zusammenarbeit GIZ, Eschborn. Introduction to GIZ - the provider of international cooperation services for sustainable development. 22 Jan 2014

Prof. Matthias **Kleiner**, Leibniz Association, Berlin. Cooperative research within the Leibniz network: good science for a better life. 27 Oct 2014

Dr: Jeppe **Kolding**, University of Bergen, Norway. The tragedy of our legacy – questioning the paradigms of fisheries science. 20 Mar 2014

Dr: Uwe **Krumme**, Thünen Institute of Baltic Sea Fisheries, Rostock. Fish stock assessment in the Baltic Sea. 20 Mar 2014

Dr: Claudia **Künzer**, German Aerospace Center (DLR), Weßling. Evaluating mangrove ecosystem services: approaches combining remote sensing and socio-economic studies. 14 Mar 2014

Shing Y. **Lee**, Griffith University, Southport, Australia. Mangrove C dynamics: highways, roundabouts or cul-de-sacs? 14 Mar 2014

Dr: Nele **Liebhoop**, Helmholtz Centre for Environmental Research, Leipzig. Economic valuation in the marine environments. 02 April 2014

Dr: Stuart **Linton**, Deakin University, School of Life and Environmental Sciences, Australia. Digestion of leaf litter by land crabs. 22 Aug 2014

Prof. Andreas **Macke**, TROPOS, Leipzig. Aerosols & clouds in the marine tropical troposphere. 07 May 2014

Prof. Dr. Douglas **MacMillan**, University of Kent, United Kingdom. Ecosystem valuation on integrative pursuit, 17 Oct 2014

Dr: Aris **Marfai**, Universitas Gadjah Mada (UGM), Yogyakarta, Indonesia. Sea level rise driven by climate change and their impact towards Indonesian coastal environment - an overview. 20 Feb 2014

Dr: Patrizio **Mariani**, DTU Aqua, Technical University of Denmark, Charlottenlund, Denmark. From individual behaviour to collective dynamics and food web stability. 19 Mar 2014

Dr: Till **Markus**, Center for Transnational Studies, University of Bremen, Bremen. North-German Research and Education Alliance in the area of marine and maritime law. 17 Sep 2014

Dr: Bonnie J. **McCay**, Rutgers State University, New Brunswick, United States. Small-scale fisheries management and the commons: a case study from Pacific Mexico. 24 Sep 2014

Dr: B. **Moore**, University of the South Pacific, Suva, Fiji. Overview of the coastal fisheries programme, Secretariat of the Pacific Community. 26 Feb 2014

Dr: Ivan **Nagelkerken**, University of Adelaide, Australia. Mangroves as fish habitats: patterns, ecological drivers, and future challenges. 14 Mar 2014

Dr: Cornelia **Nauen**, Mundus maris, Brussels, Belgium. Communicate or Perish - How to improve the social engagement of science? 22 Oct 2014

Prof. Papa **Ndiaye**, IFAN UCAD, Dakar, Senegal. Perspectives on Senegalese fisheries and aquaculture. 24 Sep 2014

PD Dr: Roland **Pesch**, University of Vechta, Vechta. Marine biotope mapping concepts relying on GIS methods and predictive modelling techniques - Examples from the German Exclusive Economic Zone. 28 May 2014

Nicholas **Polunin**, Newcastle University, United Kingdom. Corals: Achilles' heel of the reef ecosystem? 13 Jun 2014

Visitors and Guest Researchers

Dr. Jurgenne H. **Primavera**, Zoological Society of London, United Kingdom. Mangrove rehabilitation/restoration. 14 Mar 2014

Dr. Friederike **Prowe**, Helmholtz Centre for Ocean Research, Kiel. Trade-off based zooplankton feeding strategies in an ecosystem model. 11 Nov 2014

Andrian **Ramadhan**, Research Center for Marine Fisheries, Jakarta, Indonesia. Social security of small island communities. 25 Jun 2014

Dr. Raghav **Ray**, Calcutta University, Calcutta, India. Box modelling approach to understand C, N source/sink signatures of the Sundarbans mangrove, NE coast of Bay of Bengal. 10 Sep 2014

Julius **Riese**, University of Luzern, Luzern, Switzerland. Climate change and socio-cultural dynamics: The need for a long-term, integrative view. General considerations and a case study on the Samoan islands, SW-Pacific. 14 May 2014

Dr. Karl Heinz **Runte**, CAU, Kiel. Potentials of ocean renewable energy in the Indonesian seas. 10 Dec 2014

Prof. Iracilda **Sampaio**, Universidade Federal de Pará, Brazil. Molecular phylogeny of Sciaenidae in the South Atlantic - a case study. 15 Jan 2014

Dr. Kati **Schindler**, German Institute for Economic Research (DIW), Berlin. Extreme weather events and child height: Evidence from Mongolia. 17 Sep 2014

Prof. Michael **Schleyer**, Ocean Research Institute (ORI), Durban, South Africa. AAMBR, ORI and its coral reef program. 21 Jul 2014

Klaus **Schmitt**, German Society for International Cooperation (GIZ), Soc Trang City, Vietnam. Mangrove rehabilitation and management in the Mekong Delta, Vietnam. 14 Mar 2014

Prof. Horacio **Schneider**, Universidade Federal de Pará, Brazil. Molecular phylogeny of Sciaenidae in the South Atlantic - a case study. 15 Jan 2014

Eike **Schöning**, CORE sea, Thailand. Coral reef ecology research 2010-2014 at CORE sea in the Gulf of Thailand. 13 Jun 2014

S. Lan **Smith**, JAMSTEC, Yokohama, Japan. A simple size-based model of phytoplankton communities reveals size-scaling of phytoplankton growth traits. 11 Nov 2014

Dr. Jeroen **Steenbeek**, Ecopath International Initiative, Barcelona, Spain. Recent developments in ECOSPACE. 21 Mar 2014

Dr. Joseph **Teye**, University of Ghana, Accra, Ghana. Environmental change and adaptation strategies in the coastal savannah zone of Ghana. 02 Jul 2014

Dr. James **True**, Center for Biodiversity, Prince of Songkla University, Songkla, Thailand. The Songkla University. 22-24 Oct 2014

Dr. Robert R. **Twilley**, Louisiana State University, Baton Rouge, United States. An updated global synthesis of mangrove productivity and carbon budgets. 14 Mar 2014

Dr. Sergio **Vallina**, Institute of Marine Sciences, Spanish National Research Council, Barcelona, Spain. Global relationship between phytoplankton diversity and productivity in the ocean: killing the winner. 12 Nov 2014.

Dr. Simon **van der Wulp**, CAU, Kiel. Impacts of marine pollution on biodiversity and coastal livelihoods. 10 Dec 2014

Alexander **Venn**, Monaco Scientific Center. The role of pH regulation in corals symbiosis and biomineralization. 13 Jun 2014

Prof. Dr. Ludger **Wessjohann**, Leibniz-Institute of Plant Biochemistry, Halle. Specialized metabolites - the fun part of nature's chemistry: how to study and utilize them. 29 Jul 2014

Jörg **Wiedenmann**, University of Southampton, United Kingdom. Impacts of nutrient enrichment on reef corals. 13 Jun 2014

Dr. Gidon **Winters**, Dead Sea Arava Science Center, Israel. A GIS-based tool to protect seagrasses in the Gulf of Aqaba - mapping their distribution, ecosystem services and potential threats. 18 Aug 2014

Visitors and Guest Researchers 2013

Ludi Parwadani **Aji**, Biak, Indonesia, 01 Apr-31 Dec 2013

Dr. Fuad A. **Al-Horani**, University of Jordan, Aqaba, Jordan, 17-27 Jun 2013

Dr. Ali **Al-Sawalmih**, Marine Science Station of Aqaba, Jordan, 03-13 Jun 2013

Yustian Rovi **Alfiansah**, LIPI, Jakarta, Indonesia, 04 Jun-02 Jul 2013

Suci **Andiewathy**, UNHAS, Makassar, Indonesia, 12 Nov-10 Dec 2013

Dr. Uta **Berger**, Technical University, Dresden. 13-15 Mar 2014

Regina **Birner**, University Hohenheim, Beuren. 22-24 Apr 2014

Prof. Dr. Isabelle **Côté**, Simon Fraser University Burnaby, Canada, 29 Apr-04 May 2013

Dr. Edgar **Endrukaitis**, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ), New Delhi, India, 19-20 Feb 2013

Prof. Dr. Tracy D. **Frank**, University of Nebraska-Lincoln, USA, 29 Apr-04 May 2013

Prof. Dr. Ursula **Gaedke**, Institute of Biochemistry and Biology, University of Potsdam, 29 Apr-04 May 2013

Dr. Leopold C. **Gerhardinger**, Centre for Environmental Studies, University of Campinas, Brazil, 11-13 Jun 2013

Prof. Dr. Dagmar **Gerthsen**, Karlsruhe Institute of Technology (KIT), 29 Apr-04 May 2013

Jasper de **Goey**, University of Amsterdam, Netherlands, 10 Jun-12 Jul 2013

Prof. Dr. Tobias **Haller**, University of Bern, Switzerland, 03-04 Sep 2013

Prof. Dr. Cornelius **Hammer**, Institute of Baltic Sea Fisheries, Thünen Institute - Federal Research Institute for Rural Areas, Forestry and Fisheries Rostock, 29 Apr-04 May 2013

Dewi **Hindarti**, LIPI Oseanologi, Jakarta, Indonesia, 21 Nov-17 Dec 2013

Eike Martina **Holzämper**, Bremen, Germany, 22 Apr-20 Sep 2013

Sainab **Husain Paragay**, Hasanuddin University, Makassar, Indonesia, 10 Dec 2012-24 Feb 2013

Dr. Narriman S. **Jiddawi**, University of Dar es Salaam, Zanzibar, Tanzania, 25-31 Aug 2013

Ince **Iksan Ka**, UNHAS, Makassar, Indonesia, 12 Nov-10 Dec 2013

Gideon **Kivengea**, University of Nairobi, Kenya, 21 Aug-20 Nov 2013

Ima **Kusumanti**, Indonesia, 22 Apr-20 Sep 2013

Dr. Nguyen Ngoc **Lam**, National Institute of Oceanography, Nha Trang, Vietnam, 18-24 Sep 2013

Oktarie **Lenkeu**, AIMS, Senegal, 20-25 Aug 2013

Dr. Riyad **Manasrah**, Marine Science Station, Aqaba, Jordan, 29 Apr-04 May 2013

Dr. Ursula **Mendoza**, Fluminense Federal University, Brazil, 11-15 Mar 2013

Dr. Matern **Mtolera**, University of Dar es Salaam, Institute of Marine Sciences, Zanzibar, Tanzania, 29 Apr-14 May 2013

Dr. Christopher **Muhando**, University of Dar es Salaam, Zanzibar, Tanzania, 25-31 Aug 2013

Andriani **Nasir**, UNHAS, Makassar, Indonesia, 01 Oct-10 Dec 2013

Dr. Doan **Nhu Hai**, National Institute of Oceanography, Nha Trang, Vietnam, 18-24 Sep 2013

Prof. Dr. Valeria **Pizarro**, Center of Excellence in Marine Sciences (CEMarin), Santa Marta, Colombia, 10-13 Dec 2013

Prof. Dr. Hugh **Possingham**, University of Queensland, Australia, 27-29 Aug 2013

Visitors and Guest Researchers

Dr. **Purwanto**, The Nature Conservancy, Semarang, Indonesia, 11-15 Aug 2013

Nomenjanahary Alexia **Raharinirina**, AIMS, Senegal, 01 Aug-20 Sep 2013

Andrian **Ramadhan**, Ministry of Marine Affairs and Fisheries, Jakarta, Indonesia, 12-20 Jan 2013

Prof. Dr. Yogeeta **Roshni Narayan**, University of Alberta, Edmonton, Canada, 13-27 May 2013

Dr. Joko **Samiaji**, University of Riau, Pekanbaru, Indonesia, 29 Apr-04 May 2013

Prof. Dr. Iracilda **Sampiao**, Universidade Federal de Pará, Bragança, Brazil, 01-28 Jan 2013

Carlos Adrián **Sánchez Caballero**, CICIMAR-IPN Scholarship, Instituto Politécnico Nacional, Centro Interdisciplinario de Ciencias Marinas, Baja California, Mexico, 07 Aug-06 Oct 2013

Dr. Mohamad Husein **Sastranegara**, Jenderal Soedirman University, Purwokerto, Indonesia, 10-13 Sep 2013

Prof. Dr. Horacio **Schneider**, Universidade Federal de Pará, Bragança, Brazil, 01-28 Jan 2013

Heidi **Schuttenberg**, University of Amsterdam, Netherlands, 11-13 Jun 2013

Prof. Sybil P. **Seitzinger**, International Geosphere-Biosphere Programme (IGBP), Royal Swedish Academy of Sciences Stockholm, Sweden, 29 Apr-04 May 2013

Dr. Dewi **Susiloningtyas**, Bogor Agricultural University, Indonesia, 21 Aug-13 Dec 2013

Dr. Dennis **Swaney**, Cornell University Ithaca, USA, 29 Apr-04 May 2013

Dr. Michael **Vakily**, German Society for International Cooperation (GIZ), New Delhi, India, 19-20 Feb 2013

Prof. Jan **van Totenhove**, University of Wageningen, Netherlands, 21-23 Aug 2013

Prof. Dr. Christian **Voolstra**, KAUST, Saudi Arabia, 08-11 Oct 2013

Dr. Arif **Wibowo**, Research Institute for Inland Fisheries, Palembang, Indonesia, 01 Jul-31 Dec 2013

Prof. Eric **Wolanski**, School of Marine and Tropical Biology, James Cook University Townsville, Australia, 29 Apr-04 May 2013

Dr. Mark **Wunsch**, Greencoast Media, Canada, 10 Dec 2012-12 Jan 2013

Prof. Dr. Fernando **Zapata**, CEMarin, Universidad del Valle, Colombia, 02-04 Dec 2013

2014

Dr. Lydia Mosunmola **Adeleke**, Federal University of Technology Akure, Nigeria, 03 Nov 2014-30 Jan 2015

Misika **Alam**, Jenderal Soedirman University, Purwokerto, Indonesia, 13 Jun-31 Jul 2014

Dr. Zainal **Arifin**, LIPI, Jakarta, Indonesia, 03-10 Sep 2014

Prof. Shankar **Aswani**, Rhodes University, Grahamstown, South Africa, 25 Feb-01 Mar 2014, 24-27 Aug 2014

Dr. Regina **Bacalso**, University of the Philippines, Cebu City, Philippines, 20-21 Mar 2014

Houshna Naujeer **Banu**, Ministry of Agro Industry and Food Security, Mauritius, NAM Scholarship, 25 Sep-24 Dec 2014

Dr. Uta **Berger**, Technical University, Dresden, 13-15 Mar 2014

Regina **Birner**, University Hohenheim, Beuren, 22-24 Apr 2014

Adam **Ceesay**, University of Felix Houphouët, Abidjan, Ivory Coast, 26 Sep 2014-26 Mar 2015

Dr. Jacopo **Dal Corso**, University of Padua, Italy, 28 Nov 2013-31 Dec 2014

Martha **Diaz Ruiz**, UFBA, Salvador, Brazil, 01 Aug-31 Dec 2014

Dr. Anthony **Dron**, Observatoire Océanologique de Villefranche sur Mer, France, 17 Jun 2013-01 Mar 2014

Dr. Mohamed A. **Farag**, DAAD Fellowship, Associate Professor, Faculty of Pharmacy, Cairo University, Egypt, 06 Jul-10 Aug 2014

Dr. Ilka C. **Feller**, SERC, Smithsonian Institution, Edgewater, United States, 13-15 Mar 2014

Dr. Ulrich **Frey**, Justus-Liebig-University, Gießen, 18-19 Feb 2014

Dr. Rainer **Froese**, Helmholtz Centre for Ocean Research, Kiel, 20-21 Mar 2014

Dr. Jailson **Fulgencio de Moura**, Capes-/Humboldt-Scholarship, Brazil, 01 Mar 2014-28 Feb 2016

Charlotte **Gough**, Blue Ventures, London, United Kingdom, 04-08 Mar 2014

Annika **Guse**, University of Heidelberg, Heidelberg, 12-14 Jun 2014

Kartika Anggi **Haspari**, University of Göttingen, Göttingen, 24-28 Feb 2014

Dr. Jennifer **Hauck**, Helmholtz Centre for Environmental Research, Leipzig, 23-24 Apr 2014 and 15-16 May 2014

Dr. Neill **Herbert**, Leigh Marine Lab, University of Auckland, New Zealand, 20-27 Jul 2014

Sainab **Husain Paragay**, Hasanuddin University, Makassar, Indonesia, 14 Apr-16 Jul 2014

Quynh **Huong Pham**, National University of Ho Chi Minh City, Vietnam, 05 Oct-04 Nov 2014

Lisa F. **Indriana**, LIPI, Research Center for Oceanology, Lombok, Indonesia, 01 Oct-23 Dec 2014

Jean-Baptiste **Jouffray**, Stockholm Resilience Center, Stockholm, Sweden, 31 Aug-03 Sep 2014

Aida **Khazaali**, NAM Scholarship, Islamic Azad University, Bandar Abbas, Iran, 24 Nov 2013-24 Feb 2014

Dr. Jeppe **Kolding**, University of Bergen, Norway, 20-21 Mar 2014

Nora **Kolter**, University of Bremen, Bremen, 01 Nov 2014-31 Jul 2015

Dr. Uwe **Krumme**, Thünen Institute of Baltic Sea Fisheries, Rostock, 14-15 Mar 2014 and 20-21 Mar 2014

Cuong **Le Huu**, NAM Scholarship, Institute of National Products Chemistry, Hanoi, Vietnam, 26 Nov 2013-28 Feb 2014

Dr. Shing Y. **Lee**, Griffith University, Southport, Australia, 13-15 Mar 2014

Dr. Stuart **Linton**, Deakin University, School of Life and Environmental Sciences, Australia, 21-22 Aug 2014

Jonas **Löb**, University of Oldenburg, Oldenburg, 19 Nov 2014-31 Mar 2015

Miguel **Loiola**, UFBA, Salvador, Brazil, 01 Aug-31 Dec 2014

Katharina **Michel**, Fachhochschule Coburg, Coburg, 15 Dec 2014-30 Jun 2015

Jinyoung **Moon**, Republic of Korea, 07 Jul-29 Aug 2014

Dr. Bradley **Moore**, Secretariat of the Pacific Community, Noumea, France, 24 Feb-01 Mar 2014

Hendra **Mundandar**, LIPI, Research Center for Oceanology, Lombok, Indonesia, 01-30 Nov 2014

Carlos **Muños**, University del Valle, Cali, Colombia, Scholarship, 22 Oct 2014-31 Mar 2015

Dr. Ivan **Nagelkerken**, University of Adelaide, Australia, 13-15 Mar 2014

Dr. Cornelia **Nauen**, Mundus Maris, Brussels, Belgium, 22 Oct 2014

Josephine Joice **Ndapewa Edward**, GENUS Scholarship, NatMIRC, Namibia, 04-24 Nov 2014

Dr. Prabakaran **Nehru**, Leibniz/DAAD-Scholarship, India, 01 Nov 2014-31 Oct 2015

Capacity Building

Dr. Maggy **Nugues**, University Perpignan, France, 25 Feb-01 Mar 2014

Ana Paula **Oliveira Roman**, Capes-/Humboldt Scholarship, Laboratorio de biologia pesqueira e manejo de recursos aquáticos, Belém, Brazil, 21 Oct 2014-19 Feb 2015

Mayli **Ortiz**, Bogotá, Colombia, 12 Dec 2013-28 Feb 2014

Josep **Osorio Pinero**, University of Barcelona, Spain, 01 Aug-01 Nov 2014

Debora **Ferreira Pestana**, University of Bayreuth, Bayreuth, 01 Aug-31 Dec 2014

Dr. Dirk **Petersen**, Secore, United States, 01 Dec 2013-30 Nov 2014

Nicholas **Polumin**, Newcastle University, United Kingdom, 12-14 Jun 2014

Prof. Jurgene **Primavera**, Zoological Society of London, United Kingdom, 13-15 Mar 2014

Rahmi **Rahmi**, DIKTI, Indonesia, 27 Sep-15 Dec 2014

Andrian **Ramadhan**, Research Center for Marine Fisheries, Jakarta, Indonesia, 15 May-05 Sep 2014

Dr. Raghab **Ray**, DAAD/Leibniz Scholarship, University of Calcutta, India, 05 Nov 2013-31 Oct 2014

Florian **Roth**, University of Düsseldorf, Düsseldorf, 02 Jun-30 Aug 2014

Alberto **Rovellini**, University of Bremen, Bremen, 20 Oct 2014-31 Jul 2015

Prof. Dr. Baris **Salihoglu**, Hanse Wissenschaftskolleg Scholarship, Middle East Technical University, Institute of Marine Sciences, Erdemli-Mersin, Turkey, 01 May-31 Aug 2014

Prof. Dr. Iracilda **Sampiao**, Universidade Federal de Pará, Bragança, Brazil, 31 Dec 2014 -31 Jan 2015

Klaus **Schmitt**, German Society for International Cooperation (GIZ), Soc Trang City, Vietnam, 13-15 Mar 2014

Prof. Dr. Horacio **Schneider**, Universidade Federal de Pará, Bragança, Brazil, 31 Dec 2014 -31 Jan 2015

Virginia **Schutte**, University of Georgia, United States, 01 Oct 2014-31 Jan 2015

Dr. Jeroen **Steenbeek**, Ecopath International Initiative, Barcelona, Spain, 20-21 Mar 2014

Ronald **Tardiff**, DAAD scholarship, University of Connecticut, United States, 02 Jun-15 Oct 2014

Dr. James **True**, Center for Biodiversity, Prince of Songkla University, Songkla, Thailand, 22-24 Oct 2014

Dr. Robert R. **Twilley**, Louisiana State University, Baton Rouge, United States, 13-15 Mar 2014

Alexander **Venn**, Monaco Scientific Center, Monaco, 12-14 Jun 2014

Prof. Dr. Ludger **Wessjohann**, Leibniz-Institute of Plant Biochemistry, Halle/ Saale, 29-30 Jul 2014

Jörg **Wiedenmann**, University of Southampton, United Kingdom, 12-14 Jun 2014

Lisa **Witting**, University of Bremen, Bremen, 01 Dec 2013-31 Mar 2014

Marista **Zalindri**, Jenderal Soedirman University, Purwokerto, Indonesia, 13 Jun-31 Jul 2014

Prof. Dr. Fernando **Zapata**, CEMarin, Universidad del Valle, Colombia, 02-04 Dec 2013

Dr. Iskander **Zulkarnain**, LIPI, Jakarta, Indonesia, 06-10 Sep 2014

Capacity Building

Teaching at universities and other institutions

WT 2012/2013

Ekau, W., Bröhl, S., Fisheries biology. Lecture and course, ISATEC Master, University of Bremen. 2 h/week

Ekau, W., Rixen, T., Excursion. Research Cruise with R/V Maria S. Merian: Pelagic communities of the Benguela Current Upwelling System of South West Africa. Master in Marine Biology, University of Bremen. 6 h/week

Ferse, S., Naumann, M., Stuhldreier, I., Wild, C., Coral reef ecology of the Red Sea. Student excursion, Dahab, Egypt, 14-28 Feb 2013. 6 h/week

Kunzmann, A., Tropical aquaculture and its physiological basics. Lecture and course, ISATEC Master, University of Bremen. 4 h/week

Merico, A., Fundamental processes in ecology. Bachelor lecture, School of Engineering and Science, Jacobs University. 3 h/week

Merico, A., Brand, G., Nonlinear dynamics lab. Bachelor seminar, Jacobs University Bremen. 1 h/week

Nordhaus, I., Tropical coastal ecosystems - Rocky shores, tidal flats and sandy beaches. Lecture, ISATEC Master, University of Bremen. 3 h/week

Reuter, H., System analysis. Basic concepts of model development, analysing complex interactions and developing network representations. Lectures and exercises, ISATEC Master, University of Bremen. 2 h/week

Rixen T., Marine Geosciences. Lecture and seminar, Master in Marine Biology, University of Bremen. 2 h/week

Rixen T., Carbon cycle and the evolution of key species. Lecture, Master in Geosciences, University of Hamburg. 2 h/week

Rixen T., Paläoklima und biogeochemische Zyklen. Lecture, Master in Geosciences, University of Hamburg. 1 h/week

Rixen T., Aktuelle Themen der geologischen und biogeochemischen Forschung. Lecture, Master in Geosciences, University of Hamburg. 2 h/week

Saint-Paul, U., Ekau, W., Tropical fisheries and catching methods. Lecture and course, ISATEC Master, University of Bremen. 4 h/week

Schlüter, A., Environmental and Resource economics. Seminar, Jacobs University Bremen. 3 h/week

Schlüter, A., Kulesz, M., CEMarin: Social Sciences of the Marine Realm /Integrated Coastal Zone Management. CEMarin, St. Marta, Colombia. 5 h/week

Teichberg, M., Tropical coastal ecosystems I. Lecture and course, ISATEC Master, University of Bremen. 2 h/week

Teichberg, M., Tropical coastal ecosystems II. Lecture and course, ISATEC Master, University of Bremen. 2 h/week

Teichberg, M., Scientific communication. Lecture and course, ISATEC Master, University of Bremen. 2 h/week

Wild, C., Literature seminar "Coral Reef Ecology", ISATEC Master, University of Bremen. 2 h/week

Wolff, M., Concepts of aquatic ecology. Lecture, ISATEC Master, University of Bremen. 2 h/week

ST 2013

Birkicht, M., Jennerjahn, T., Martin, C., Research cruise with "FK Uthörn". ISATEC Master, University of Bremen. 0.5 h/week

Ekau, W., Saint-Paul, U., Fisheries biology and aquaculture. ISATEC Master, University of Bremen. 4 h/week

Ferse, S., A social-ecological systems approach to coral reef fisheries in Spermonde (Marine Ecology Summer Training). Master course at Hasanuddin University, Makassar, Indonesia. 1 h/week

Ferse, S., Schwerdtner Máñez, K., Interdisciplinarity between natural and social sciences. Block course, lesson and seminar, ISATEC Master, University of Bremen. 2 h/week

Ferse, S., Schwerdtner Máñez, K., Participatory techniques and stakeholder analysis. Lesson, ISATEC Master, University of Bremen. 2 h/week

Jennerjahn, T., Biogeochemical cycling of elements in the aquatic environment. Block course, lesson and practical course, ISATEC Master, University of Bremen. 2 h/week

Capacity Building

Jennerjahn, T., Chemical-biological oceanography. Lecture, Bachelor in Geosciences, University of Bremen. 1 h/week

Merico, A., Brand, G., Nonlinear dynamics lab. Bachelor seminar, Jacobs University Bremen. 2 h/week

Reuter, H., Spatio-temporal modelling. Modelling of spatial processes with different approaches. Lecture and exercises, ISATEC Master; University of Bremen. 5 h/week

Rixen T., Geochemisches Grundpraktikum. Seminar; Bachelor in Geosciences, University of Hamburg. 2 h/week

Rixen T., Geowissenschaftliches Geländepraktikum. Seminar, Bachelor in Geosciences, University of Hamburg. 2 h/week

Rixen T., Biogeochemie im Zuge der Erdgeschichte. Lecture, Master in Geosciences, University of Hamburg. 2 h/week

Schlüter, A., Environmental and resource economics. Lecture, Bachelor School of Humanities and Social Sciences, Jacobs University. 3 h/week

Schlüter, A., Weber de Morais, G., Ecological economics. Block course, lesson and exercise, ISATEC Master; University of Bremen. 2 h/week

Teichberg, M., Scientific communication. Lecture and course, ISATEC Master; University of Bremen. 2 h/week

Tsounis, G., Kunzmann, A., Course scientific diving. Helgoland. 29 Jul-10 Aug 2013

Westphal, H., Diagenese von Sedimentgesteinen. Lecture, Master in Geosciences, University of Bremen. 2 h/week

Wolff, M., Population dynamics and stock. Block course, lesson and exercise, ISATEC Master; University of Bremen. 2 h/week

Wolff, M., Trophic modelling of ecosystems. Block course, lesson and exercise, ISATEC Master; University of Bremen. 2 h/week

Wolff, M., Ferse, S., Schwerdtner Máñez, K., Glaser, M., Reuter, H., Jennerjahn, T., Written essay (incl. mentoring), scientific essay. ISATEC Master; University of Bremen. 2 h/week

WT 2013/2014

Breckwoldt, A., Glaser, M., Development and the natural environment: Trade-offs and tensions between social and ecological sustainability. Master course, Institute for Geography, University of Bremen. 2 h/week

Breckwoldt, A., Master für Stadt- und Regionalplanung: Qualitative Forschungsmethoden für Fortgeschrittene. Master course, Institute for Geography, University of Bremen. 2 h/week

Cerutti, N., Microeconomics. Lecture assistance, School of Humanities and Social Sciences, Jacobs University. 2 h/week

Ekau, W., Fisheries biology. Lecture and course, ISATEC Master; University of Bremen. 2 h/week
Gärdes, A., Marine microbiology. Lecture, ISATEC Master; University of Bremen. 2 h/week

Kunzmann, A., Tropical aquaculture and its physiological basics. Lecture and course, ISATEC Master; University of Bremen. 4 h/week

Kunzmann, A., Course scientific diving. Crete, Greece. 29 Oct-11 Nov 2013

Merico, A., Fundamental processes in ecology. Bachelor lecture, School of Engineering and Science, Jacobs University. 2 h/week

Nordhaus, I., Tropical coastal ecosystems - rocky shores, tidal flats and sandy beaches. Lecture, ISATEC Master; University of Bremen. 3 h/week

Nordhaus, I., Saint-Paul, U., Tropical coastal ecosystems I. Lecture and course, ISATEC Master; University of Bremen. 2 h/week

Nordhaus, I., Saint-Paul, U., Tropical coastal ecosystems II. Lecture and course, ISATEC Master; University of Bremen. 2 h/week

Reuter, H., Introduction to ecological modelling. Block seminar, Master in Ecology, University of Bremen. 5 days

Reuter, H., Systems analysis. Block seminar, ISATEC Master; University of Bremen, 5 days

Rixen T., Marine geosciences. Lecture and seminar; Master in Marine Biology, University of Bremen. 2 h/week

Rixen T., Floating University. Lecture, Master in Geosciences, University of Hamburg. 6 h/week

Rixen T., Paläoklima und biogeochemische Zyklen. Lecture, Master in Geosciences, University of Hamburg. 1 h/week

Rixen T., Aktuelle Themen der geologischen und biogeochemischen Forschung. Lecture, Master in Geosciences, University of Hamburg. 2 h/week

Rixen, T., Excursion: Research cruise with R/V Meteor: pelagic communities off Southern Africa. Master in Marine Biology, University of Bremen. 6 h/week

Saint-Paul, U., Ekau, W., Tropical fisheries and catching methods. Lecture and course, ISATEC Master; University of Bremen. 4 h/week

Schlüter, A., Lectures, IPB, Bogor; Warmadewa University, Denpasar, Indonesia. 13-30 Jan 2014

Wild, C., Coral reef ecology. Literature seminar, ISATEC Master; University of Bremen. 2 h/week

Wolff, M., Concepts of aquatic ecology. Lecture and seminar, ISATEC Master; University of Bremen. 2 h/week

Wolff, M., Scientific writing course. ISATEC Master; University of Bremen. 1 h/week

Wolff, M., Saint-Paul, U., Kunzmann, A., Reuter, H., Scientific communication – oral presentation. Seminar, ISATEC Master; University of Bremen. 1 h/week

ST 2014

Brandt, G., Ekau, W., Merico, A., Workshop: Mathematical tools for understanding and managing fisheries: synthesizing and refining data and models. AIMS, Senegal. 07-09 May 2014

Breckwoldt, A., Interdisciplinarity between natural and social sciences. ISATEC Master; University of Bremen. 2 h/week

Ferse, S., Participatory techniques and stakeholder analysis. ISATEC Master; University of Bremen. 2 h/week

Jennerjahn, T., Herbeck, L., Biogeochemical cycling of elements in the aquatic environment. Block course, lesson and practical course, ISATEC Master; University of Bremen. 2 h/week

Jennerjahn, T., Chemical-biological oceanography. Lecture, Bachelor in Geosciences, University of Bremen. 2 h/week

Kunzmann, A., Birkicht, M., Water quality measurements in marine systems. Lesson and practical course, international workshop in SPICE, IPB, Bogor, Indonesia. 5 days

Kunzmann, A., Ferse, S., Scientific diving training course. Lectures and practical course, international workshop in SPICE, UNUD, Bali, Indonesia. 10 days.

Merico, A., Brandt, G., Non-linear dynamics lab (daisyworld: biological homeostasis in an idealized world). Master seminar, Jacobs University Bremen. 2 h/week

Rixen, T., Geowissenschaftliches Geländepraktikum. Bachelor in Geosciences, University of Hamburg. 2 h/week

Rixen, T., Biogeochemie im Zuge der Erdgeschichte. Master in Geosciences, University of Hamburg. 4 h/week

Reuter, H., Modelling spatio-temporal dynamics. Block seminar, ISATEC Master; University of Bremen. 5 days

Reuter, H., Introduction into ecological modelling. Master course, University of Dar es Salaam, Tanzania. 4 days

Schlüter, A., Weber De Morais, G., Resource economics approach to the coastal and marine realm. Master course, University of Dar es Salaam, Tanzania. 4 days

Schlüter, A., Weber de Morais, G., Ecological economics. ISATEC Master; University of Bremen. 5 h/week

Capacity Building

Schlüter, A., Environmental and resource economics. Master course, Jacobs University. 4 h/week

Schlüter, A., Environmental and resource economics. Seminar, School of Humanities and Social Sciences, Jacobs University. 4 h/week

Schmid, M., Ferse, S., Kunzmann, A., Course scientific diving. Helgoland. 29 Jun-12 Jul 2014

Taylor, M., Modelling in conservation biology. Lecture and exercise, ISATEC Master; University of Bremen. 5 days

Wolff, M., Population dynamics. Course, ISATEC Master; University of Bremen. 2 h/week

Wolff, M., Stock assessment. Course, ISATEC Master; University of Bremen. 2 h/week

Wolff, M., Trophic modelling. Course, ISATEC Master; University of Bremen. 2 h/week

Wolff, M., Approaches for fisheries assessment. IMS, Zanzibar; Tanzania. 2 days.

WT 2014/2015

Merico, A., Fundamental processes in ecology. Bachelor lecture, School of Engineering and Science, Jacobs University. 3 h/week

Meyer, A., Marine research in Bremen. Excursion, ISATEC Master; University of Bremen. 0.5 h/week

Nordhaus, I., Tropical coastal ecosystems (part I and II). Lecture and training, ISATEC Master; University of Bremen. 2 h/week

Rixen T., Aktuelle Themen der geologischen und biogeochemischen Forschung. Lecture, Master in Geosciences, University of Hamburg. 2 h/week

Rixen T., Paläoklima und biogeochemische Zyklen. Lecture, Master in Geosciences, University of Hamburg. 1 h/week

Schlüter, A., Lectures. IPB, Bogor; Warmadewa University, Denpasar; Indonesia. 13-30 Jan 2014

Schlüter, A., Teaching. Universitas Riau, Pekanbaru, Indonesia. 14-22 Dec 2014

Schmid, M., Ferse, S., Kunzmann, A., Course scientific diving. Crete, Greece. 25 Oct-16 Nov 2014

Schmid, M., Kunzmann, A., Training course scientific diving. Indonesia, 06-20 Sep and 23 Sep-03 Oct 2014

Teichberg, M., Tropical coastal ecosystems. Lecture, ISATEC Master; University of Bremen. 2 h/week

Wolff, M., Concepts of aquatic ecology. Lecture and seminar; ISATEC Master; University of Bremen. 2 h/week

Zimmer, M., Evolution und Biodiversität der Tiere. Bachelor lecture, practical training, Paris-London-University, Salzburg, Austria. 2 h/week

Zimmer, M., Ringvorlesung: Introduction to Marine Biology. Bachelor lecture, University of Bremen. 1 h/week

Zimmer, M., Tropical coastal ecosystems. Master lecture, practical course, University of Bremen. 2 h/week

PhD dissertations 2013

Bayraktarov, Elisa (2013). Coral community functioning in response to environmental factors in Tayrona National Park, Colombian Caribbean. University of Bremen (Supervisor: **C. Wild**)

Castellanos-Galindo, Gustavo Adolfo (2013). The temporal and spatial variability of nursery habitats for fishes in macrotidal mangrove systems of Colombia and Brazil: implications for conservation and fisheries resources. University of Bremen (Supervisor: **U. Saint-Paul**)

David, Shilly Elizabeth (2013). Catchment scale human interventions in the Pamba basin (Kerala, India) and their impact on estuarine ecosystem in the southern Vembanad Estuary. University of Bremen (Supervisor: **T. Jennerjahn**)

Geist, Simon Joscha (2013). Trophic position and physiological adaptations of early life stages of pelagic fish of the Northern Benguela Current Upwelling System and their role in the food web. University of Bremen (Supervisors: **W. Ekau, A. Kunzmann**)

Jessen, Christian (2013). Coral reef functioning in the Central Red Sea - the effect of relevant bottom-up and top-down factors. University of Bremen (Supervisor: **C. Wild**)

Kulesz, Micaela Maria (2013). Intergenerational fairness (cooperation and fairness among different age groups). University of Bremen (Supervisor: **A. Schlüter**)

PhD dissertations 2014

Acevedo-Trejos, Esteban (2014). Phytoplankton community size-structure: a trait-based approach. University of Bremen (Supervisor: **A. Merico**)

Brocke, Hannah (2014). Einflüsse benthischer Cyanobakterienmatten auf die Korallenriffökosysteme. University of Bremen (Supervisor: **C. Wild**)

Einsporn, Marc (2014). Composition and seasonal dynamics of dissolved and particulate organic matter in estuaries of West Bengal, India. University of Bremen (Supervisor: **R. Lara**)

Kaiser, David (2014). The role of mangroves for biogeochemical fluxes into the coastal ecosystems of the Gulf of Beibu under the influence of anthropogenic alternations. University of Bremen (Supervisor: **T. Jennerjahn**)

Katikiro, Robert (2014). Relating changes in reef-associated fisheries and livelihood in coastal villages of southern Tanzania: Lessons for adaptation to climate change? University of Bremen (Supervisor: **M. Glaser**)

Krutwa, Annika (2014). Small scale differences in subtidal benthic communities and succession processes between two sites of Floreana Island (Galápagos) exposed to different oceanographic regimes as related to gradients of substrate complexity. University of Bremen (Supervisor: **M. Wolff**)

Pham, Quynh Huong (2014). Nutritional state and organic matter diagenese in a halophyte and planted mangrove in Bac Lieu .Province, Vietnam. National University of Ho Chi Minh City, Vietnam (Supervisor: **U. Saint-Paul**)

Pülmans, Nathalie (2014). The importance of burrowing and leaf litter feeding crabs for the ecosystem functioning of mangrove forests. University of Bremen (Supervisor: **U. Saint-Paul**)

Diploma and Master's theses 2013

Leichtle, Christian (2013). Mutualism in solar powered ophiostobranchia: Impact of climate change-related stressors on *Aeolidiella stephaniae* and *Elysia crispata*. University of Bremen (Supervisor: **C. Wild**)

Lenkeu Lenkeu, Nadege Octavie (2013). A mathematical modelling investigation of the Easter Island Ecology. African Institute of Mathematical Sciences, Mbour, Senegal (Supervisor: **A. Merico**)

Michalek, K. (2013). Activity of metabolic key enzymes in early life stages of Cape horse mackerels *Trachurus trachurus caspensis* from the Northern Benguela current upwelling system. University of Bremen (Supervisor: **A. Kunzmann**)

Stuhr, Marleen (2013). Effects of land-derived eutrophication on sedimentary processes in coral reefs of Kho Phan Ngan, Thailand. University of Tübingen (Supervisor: **C. Wild**)

Wiemers, Kai (2013). Analyse der marinen Sedimentfazies vor der Nordküste von Ostsumatra, Indonesien – Einfluss von CO₂-reichen Gewässern auf die Karbonatsedimentation. University of Bremen, (Supervisor: **J. Michel**)

Diploma and Master's theses 2014

Cardenas Barbosa, Anny Johanna (2014). Bacterial community shifts and impact on aggregate formation in coral macroalgae mesocosms under elevated organic carbon and pCO₂ concentrations. University of Bremen (Supervisor: **A. Gärdes**)

Dumeier, Arlena (2014). Development of benthic community composition in reefs of Kho Pan Ngan, Gulf of Thailand. University of Bremen (Supervisor: **C. Wild**)

Capacity Building

Huy Nguyen, Quang (2014). Seasonal variability in abundance, distribution and diversity of coastal ichthyoplankton in the Nha Trang Bay, Vietnam (South China Sea). University of Hamburg (Supervisor: A. Kunzmann)

Mitterwallner, Pauline (2014). Development of fish biomass and diversity in reefs of Kho Pan Ngan, Gulf of Thailand. University of Bremen (Supervisor: C. Wild)

Osorio Pinero, Josep (2014). Evaluation of water poverty in small coral islands of the Spermonde Archipelago, South Sulawesi (Indonesia). University of Barcelona, Spain (Supervisors: A. Merico, K. Schwerdtner Mañez)

Weiland, Laura (2014). Top-down and bottom-up drivers regulating macroalgae physiology and distribution along a eutrophication gradient in Spermonde Archipelago, South Sulawesi (Indonesia). University of Bremen (Supervisor: M. Teichberg)

ISATEC Master's theses 2013

Adeboyejo, Folasade (2013). Nitrification process in the Dead Sea and its' underwater springs; reality or mirage. University of Bremen (Supervisor: A. Gärdes)

Fabiani, Godfrey (2013). Community-led integrated polyculture of sea cucumber (*Holothuria scabra*) and seaweed (*Kappaphycus alvarezii*) at Ushongo, Pangani in Tanzania. University of Bremen (Supervisors: S. Ferse, A. Kunzmann)

Gruner, Nicolas (2013). Effects of marine protected areas and fishing on population biomass of five species of Serranidae in La Paz Bay, Mexico: An ecospace study. University of Bremen (Supervisors: H. Reuter, M. Wolff)

Gikonyo, Nancy (2013). Analyzing perceptions of the local fishing communities towards marine protected areas in Zanzibar, Tanzania. University of Bremen (Supervisors: S. Ferse, M. Glaser, H. Reuter)

Heiden, Jasmin Pascale (2013). Benthic recruitment patterns in response to nutrient availability and grazing pressure in coral reefs of Spermonde Archipelago, Indonesia. University of Bremen (Supervisors: M. Teichberg, C. Wild)

Kusumanti, Ima (2013). Fisheries dependence and livelihood vulnerability in Jakarta Bay and Seribu Islands: A case study. University of Bremen (Supervisors: S. Ferse, M. Glaser)

Lange, Julia Emily (2013). Understanding the function of body pattern in coral reef fish, *Dascyllus aruanus*. University of Bremen (Supervisor: M. Wolff)

Pamungkas, Joko (2013). Polychaete community composition of the Segara Anakan mangrove forest, Cilacap, Central Java, Indonesia. University of Bremen (Supervisor: I. Nordhaus)

Reusch, Katharina (2013). Distribution, relative abundance and habitat use of *Delphinus delphis*, *Stenella attenuate* and *Tursiops truncatus* off the central coast of Oaxaca, Mexico. University of Bremen (Supervisors: W. Ekau, M. Wolff)

Wiedling, Johanna (2013). Invertebrate recruitment and population connectivity in the Nha Trang Bay, Vietnam. University of Bremen (Supervisors: A. Kunzmann, M. Wolff)

Xiao, Han (2013). Genetic population structure of the finescale four-eyed fish, *Anableps microlepis*, in the north and northeast Brazil. University of Bremen (Supervisor: W. Ekau)

ISATEC Master's theses, 2014

Alolade Oyinlola, Muhammed (2014) Population dynamics and variation in fecundity of *Ethmalosa fimbriata* (Bowdich, 1825) in cross river estuary and adjacent coastal waters, Southern, Nigeria. University of Bremen (Supervisor: W. Ekau)

Amen, Rahma (2014). Temperature impact on the feeding dynamics and ammonium excretion of larval herring (*Clupea harengus*). University of Bremen (Supervisor: W. Ekau)

Bodden, Stephanie (2014). Reef monitoring and visitors' perceptions – a case study on the health of coral reefs of Dahab, South Sinai. University of Bremen (Supervisors: A. Breckwoldt, K. Schwerdtner Mañez)

Bosboom, Coen (2014). Introducing grouper mariculture as an alternative livelihood in the marine protected area of Berau regency, East-Kalimantan, Indonesia. University of Bremen (Supervisor: S. Ferse)

Breitkopf, Veronika (2014). The factors behind the choice of a fishing gear and fishing location in Spermonde Archipelago, South Sulawesi, Indonesia. University of Bremen (Supervisors: M. Glaser, K. Schwerdtner Mañez)

Cornejo Dominguez, Anabell Johanna (2014). Heavy metal burdens in economically and ecologically important benthic species and their distribution in sediment and water in the Segara Anakan Lagoon, Java, Indonesia. University of Bremen (Supervisor: I. Nordhaus)

García Herrera, Nur (2014). Physiological effects of the mutualistic relationship between *Dascyllus marginatus* and *Stylophora pistillata* in the northern Red Sea. University of Bremen (Supervisors: S. Ferse, A. Kunzmann, C. Wild)

Golz, Vera Frederike (2014). Development of a monitoring concept for Spermonde, Indonesia, based on ecological and socio-ecological data. University of Bremen (Supervisor: H. Reuter)

Herz, Nicole (2014). High-performance liquid chromatography to determine thiocyanate in illegal caught reef fish. University of Bremen (Supervisors: S. Ferse, A. Kunzmann)

Krause, Sophie-Louise (2014). Primary production of a benthic reef community in Todos os Santos Bay, Bahia, Brazil. University of Bremen (Supervisors: M. Naumann, C. Wild)

Libuku, Victor (2014). Temporal variability in the inshore particle fluxes of the Benguela Current Upwelling System of Namibia. University of Bremen (Supervisor: T. Rixen)

Meyer, Steffi (2014). Evaluating the impact of scallop (*Argopecten purpuratus*) cultivation on the benthic and faunal community in Sechura Bay, Peru. University of Bremen (Supervisors: S. Ferse, M. Taylor, M. Wolff)

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Radiobremen: Buten un Binnen, 09.09.2014

Grünstreifen (Report about the research on
HIV-inhibiting brown algae agents of C. Wild et al.)
Deutschlandradio Wissen, 05.11.2014

Report about the research on HIV-inhibiting
brown algae agents of C. Wild et al.
NDR Hamburg: Nachrichten, 10.11.2014

Hemmt Vermehrung von HI-Viren:
Wirkstoff in Braunalgen entdeckt
(Interview with C. Wild about the research
on HIV-inhibiting brown algae agents)
Sat.1 Regional: Nachrichten, 04.12.2014

Press releases / Web news items 2013

„Verschollener Riff Forscher“ – ein Exponat aus
der Hochschule für Künste am ZMT / “Missing
reef researcher” – an exhibit of the University
of the Arts Bremen, 15.01.2013

„Fiction Meets Science“: Bernhard Kegel begleitet
ZMT-Expedition nach Jordanien / “Fiction Meets
Science“: Bernhard Kegel accompanies a ZMT
expedition to Jordan, 29.01.2013

Neue Mesokosmen für die MAREE / New
mesocosms at the MAREE, 18.03.2013

Wenn Algen das Riff erobern /
When algae take over the reef, 08.04.2013

Die Zukunft von Riffen: ein Modell gibt Auskunft /
Simulation model provides information on the
future of reefs, 26.04.2013

Gehört pumpenden Weichkorallen die Zukunft in
Riffen? / Does the future of reefs belong to
pulsating soft corals? 15.05.2013

OPEN CAMPUS – Welten öffnen – Wissen teilen /
OPEN CAMPUS, 31.05.2013

Das Phänomen der „inversen Ästuarie“ / The
phenomenon of the “Inverse Estuaries”, 24.06.2013

63. Lindauer Nobelpreisträger-Treffen / 63rd Lindau
Nobel Laureate Meeting, 17.07.2013

Schlammvulkan auf Java: Folgen für die Umwelt /
Mud volcano in Java: impacts on the environment,
30.07.2013

Ausstellung: „Elisabeth Mann Borgese und das
Drama der Meere“ / Exhibition about Elisabeth
Mann Borgese coming to Bremen, 01.08.2013

Sommerakademie: Klima – Ökologie – Mensch /
Climate, Ecology and Man, 02.09.2013

Neue Nachwuchsgruppe zum Thema Resilienz /
New junior research group on the issue of resilience,
11.09.2013

ZMT prägt Forschung zu mariner Umweltgeschichte /
The ZMT plays an important role in research on
marine ecological history, 30.09.2013

Public Relations

Podiumsdiskussion: „Privatisierung der Meere? -Schutzgebiete und Fischerei“, 10.10.2013

ZMT unterstützt Aufbau der “Marine Sciences” an Uni in Bali / ZMT supports study programme “Marine Sciences” at University of Bali, 28.10.2013

Ausgezeichneter Auszubildender / ZMT trainee receives award, 22.11.2013

Aus der Geschichte der Meeresnutzung für die Zukunft lernen / Learning from the history of marine use to shape future ocean policies, 25.11.2013

ZMT-Direktorin als wissenschaftliche Vizepräsidentin der Leibniz-Gemeinschaft wiedergewählt / ZMT Director re-elected Vice President of the Leibniz Association, 29.11.2013

„Natürliche Klimaanlage“ schützt Korallen vor Bleiche / Natural climate control system protects corals from bleaching, 09.12.2013

Bestnote für Promotion auf dem Gebiet der Mangrovenökologie / Top grade for PhD thesis in the WG Fisheries Biology, 16.12.2013

ZMT eröffnet Forschungs- und Ausbildungsstation auf Java / The ZMT inaugurates a research and training station in Java, 18.12.2013

Press releases / Web news items 2014

Professor des Leibniz-Zentrums für Marine Tropenökologie erhält Ehrendoktorwürde / ZMT Professor awarded Honorary Doctorate, 18.02.2014

Sieger im Regionalwettbewerb von „Jugend forscht“ / Winner of the regional competition of “Youth Meets Science”, 28.02.2014

ZMT ehrt Verdienste des Mangrovenökologen Prof. Dr. Ulrich Saint-Paul / The ZMT honours Prof. Dr. Ulrich Saint-Paul for his achievements as mangrove ecologist, 05.03.2014

Den großen Auftriebsgebieten der Ozeane geht die Luft aus / The large upwelling systems of the oceans are running out of oxygen, 11.03.2014

ZMT positiv evaluiert! / Positive evaluation of the ZMT, 20.03.2014

Fortführung der Kooperation mit Indonesien / Continuation of cooperation with Indonesia, 29.04.2014

Mobile App zur Erforschung von Nutzerverhalten / Mobile application to study harvest behaviour, 12.05.2014

Bundestagsabgeordnete zu Besuch am ZMT / Members of the Bundestag visiting the ZMT, 16.05.2014

Martin Zimmer übernimmt mangrovenökologische Professur am ZMT / Martin Zimmer takes over Mangrove Ecology Chair at ZMT, 21.05.2014

Neues aus der Korallenriff-Forschung / News from coral reef research, 06.06.2014

Projekt zur Nachzucht von Korallen / Project on coral breeding, 10.06.2014

Kooperationsabkommen mit der Universität in Makassar / Memorandum of Understanding with the University in Makassar, 12.06.2014

Zurück aus dem Atoll / Back from the atoll, 16.06.2014

„PACE-Net +“ stärkt Forschungszusammenarbeit zwischen Pazifik und EU / “PACE-Net +” strengthens research cooperation between Pacific Region and EU, 01.07.2014

Alexander von Humboldt-Stiftung fördert die Umsetzung einer Alumni-Strategie am ZMT / Alexander von Humboldt-Foundation supports implementation of alumni strategy at the ZMT, 09.07.2014

Wirkstoffe aus der Koralle / Active agents from corals, 10.07.2014

Aquakultur in China schädigt Seegrasswiesen / Aquaculture in China damages seagrass meadows, 29.07.2014

Auftaktkonferenz zur Forschungskooperation zwischen Europa und Südpazifik in Bremen / PACE-NET Plus conference in Bremen discusses research cooperation between Europe and the South Pacific, 29.08.2014

Neue Nachwuchsgruppe am ZMT erforscht submarinen Grundwasserabfluss / New junior research group investigates submarine groundwater discharge, 01.09.2014

Platzanweiser im Korallenriff / Ushers in the coral reef, 17.09.2014

Geologische Spurensuche auf den Balearen / Search for geological traces on Mallorca, 13.10.2014

Leibniz in Afrika – Vernetzungstreffen am ZMT / Leibniz in Africa: Networking meeting at the ZMT, 16.10.2014

Beiratsmitglied des ZMT zum Minister ernannt / Member of ZMT Advisory Board appointed Minister, 31.10.2014

ZMT präsentiert Außenminister Steinmeier seine Kooperation mit Indonesien / ZMT presents its research cooperation with Indonesia to Foreign Minister Steinmeier, 03.11.2014

Wirkstoffe aus Braunalgen hemmen die Vermehrung von HIV-Viren / Active agents from brown algae inhibit HIV-1 replication, 04.11.2014

Die neue „Sonne“ kommt nach Bremen / New RV “Sonne” is coming to Bremen, 12.11.2014

Ausgezeichnete Gastwissenschaftlerin / Visiting scientist receives scholarship from the AWARD Programme, 26.11.2014

Information material 2013

ZMT Report (2011/2012), 2013

Flyer „Elisabeth Mann Borgese und das Drama der Meere“, 2013

Flyer “Science for the Protection of Indonesian Coastal Marine Ecosystems (SPICE III)”, 2013

Flyer “SUTAS – Leibniz Graduate School”, 2013

Newsletter 1/2013

Newsletter 2/2013

2014

Flyer “New Regional Formations”, 2014

Newsletter 1/2014

Newsletter 2/2014

Public events 2013

Guided tour of the Maree and the library for the vocational school class “Fachangestellten für Medien- und Informationsdienste” from SZ Utbremen, 09.01.2013

Talk by C. **Reymond**: “Galapagos sands: what lies beneath?” at the Haus der Wissenschaft, Bremen, 21.01.2013

Participation of the ZMT with a stand and diverse exhibits at the OMNILAB laboratory fair, 07.03.2013

Guided tour of the Maree for the “Arbeitskreises Meerwasser Ruhrgebiet Ost” in the frame of the congress on marine aquaristics at the Klimahaus in Bremerhaven, 19.04.2013

Talk by A. **Mayer**: “Symbiosen im Einfluss des Klimawandels: Experimentelle Aquaristik und die Nachzucht von Cassiopeia und Co.” in the frame of the congress on marine aquaristics at the Klimahaus in Bremerhaven, 21.04.2013

Future’s Day with a workshop and experiments for pupils at the ZMT, 25.04.2013

Talk by J. **Wiedling**: “Den Seeigel-Larven auf der Spur - Eine Reise nach Vietnam” at the meeting of the working group “Learning and Teaching” of the Deutsche Gesellschaft für Meeresforschung, 26.04.2013

Open Campus – open doors day of the University Bremen and research institutes of the Technology Park with diverse contributions of the ZMT, 21.06.2013

Guided tour of the ZMT laboratories for a student group (International Studies on Technical and Applied Biology) of the Hochschule Bremen, 01.08.2013

Opening of the exhibition "Elisabeth Mann Borgese und das Drama der Meere" Haus der Wissenschaft, Bremen, 31.08.2013

Talk by W. **Ekau**: "Elisabeth Mann Borgese - Botschafterin der Meere", Haus der Wissenschaft, Bremen, in the frame of the exhibition "Elisabeth Mann Borgese und das Drama der Meere", 31.08.2013

Talk by A. **Schlüter**: "Menschen, Rechte, das Meer und die Küste - eine sozialwissenschaftliche Perspektive", Haus der Wissenschaft, Bremen, in the frame of the exhibition "Elisabeth Mann Borgese und das Drama der Meere", 14.09.2013

Talk by P. **Kegler**: "Clowns im Dienste der Wissenschaft (haben nicht immer was zu lachen....)" in the frame of the Maritime Week, Haus der Wissenschaft, Bremen, 19.09.2013

Guided tour of the Maree for a young student group from Sweden, 24.09.2013

Panel discussion with H. **Westphal**, W. **Ekau** a.o. "Privatisierung der Meere - Schutzgebiete und Fischerei", Haus der Wissenschaft, Bremen, in the frame of the exhibition "Elisabeth Mann Borgese und das Drama der Meere", 17.10.2013

Talk by W. **Ekau** about sustainable use of fish resources at Gymnasium Rissen, Hamburg, 13.11.2013

Excursion to the ZMT for journalists of the congress "WissensWerte", 27.11.2013

Public events 2014

Guided tour of the Maree and lecture by P. **Kegler** for the "Nemo-Klasse" of the "Schule an der Karl-Lerbs-Straße", 16.01.2014

Talk by H. **Westphal**: "Facetten der Nachhaltigkeit. Tropische Küsten als sozioökologische Systeme" at a public lecture series of the Hochschule Bremen, 22.01.2014

Participation of the ZMT in the exhibition "Einfach wissenschaft: Zukunftsfähig", Haus der Wissenschaft, Bremen, 13.02. – 26.04.2014

Talk by H. **Westphal**: "Tropische Küsten – Brennpunkte des Wandels" in the public lecture series "Leibniz-Lektionen" at the Urania, Berlin, 26.02.2014

Talk by H. **Reuter**: "Wenn Algen das Korallenriff erobern - Einblicke in Zukunftsszenarien" Haus der Wissenschaft, Bremen, 08.03.2014

Future's Day with a workshop and experiments for pupils at the ZMT, 27.03.2014

Talk by S. **Hohn**: "Ozeanversauerung – ein Flaschenexperiment" in the frame of the European Maritime Week, 18.05.2014

Participation of C. **Wild** in a panel discussion of the BUND in the frame of the European Maritime Week, 18.05.2014

Participation of the ZMT at the exhibition along the Weser in Bremen in the frame of the European Maritime Week, 18.05.2014

Guided tour of the Maree for the "Freundeskreis für Wissenswertes aus Wirtschaft, Technik und Kultur", 30.06.2014

Talk by C. **Wild**: "Hitze- und Säureangriff auf Korallen und ihre Riffe" in the public talk series "Science Notes" at the Club "Übel & Gefährlich", Hamburg, 13.09.2014

Talk by A. **Schlüter**: "Weniger Plastiktüten ins Meer: Feldexperimente im Inselstaat Indonesien", Haus der Wissenschaft, Bremen, 20.09.2014

ZMT Staff (2013 – 2014)

Research staff

Abrams, Jesse
Acevedo Trejos, Dr. Esteban
Alberts-Hubatsch, Hilke (until 2014)
Audfroid, Marianna (until 2014)
Baum, Dr. Antje
Baum, Gunilla
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Cseke, Szilvi (until 2013)
Day, Julie (since 2013) 2014)
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Einsporn, Dr. Marc (until 2013)
Ekau, Dr. Werner
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Flohr, Anita
Ford, Amanda (since 2013)
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Gärdes, Dr. Astrid
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Schaumlöffel, Daniella (until 2014)
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External funding

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 Tuda, Paul (since 2013)
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 Weber de Morais, Gabriela

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 Steinel, Nico (since 2014)
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 Francisca Wit (until 2014)

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Dr. Tim Rixen

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Memberships of the ZMT

European Project on Ocean Acidification Consortium (EPOCA)

Memberships

House of Science Bremen
Informationsdienst Wissenschaft (idw)

Intergovernmental Oceanographic
Commission (IOC)

International Ocean Institute (IOI)

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German Marine Research Consortium (KDM)

Leibniz Network on Biodiversity

Leibniz Research Alliance
„Crises in a Globalised World“

Northwest Marine Research Association
Scientific Committee on Problems of the
Environment (SCOPE)

Scientific Committee on Ocean Research (SCOR)

Unifreunde - Freunde der Universität Bremen und
der Jacobs University e.V.

Leibniz Association

Western Indian Ocean Marine Science Association
(WIOMSA)

Wittheit zu Bremen e.V.

Memberships in executive boards and committees

Alexander von Humboldt-Foundation, Selection
Committee (H. **Westphal**, Committee Member)

Deutsche Gesellschaft für Meeresforschung (DGM),
Working Group „Studium und Lehre“
(S. **Ferse**, Working Group Member)

Geologische Vereinigung, Executive Committee
(H. **Westphal**, Vice Chairperson)

German Academic Exchange Service (DAAD)
Evaluation Committee South America
(C. **Wild**, Board Member)

German Research Foundation (DFG), Review Board
(H. **Westphal**, Review Board Member)

German Society for Human Ecology, Executive Board
(M. **Glaser**, Vice President)

Gesellschaft für Marine Aquakultur mbH (GMA),
Büsum, Scientific Advisory Board
(A. **Kunzmann**, Board Member)

Gesellschaft für Ökologie (GfÖ), Working
Group „Theorie in der Ökologie“
(H. **Reuter**, Spokesperson)

Gesellschaft für Tropenökologie (gtö), Scientific
Advisory Board (U. **Saint-Paul**, Board Member)

Helmholtz Centre for Ocean Research Kiel
(GEOMAR), Board of Governors
(H. **Westphal**, Board Member)

Instituto Argentino de Oceanografía
(R. **Lara**, Director)

International Council for the Exploration of
the Sea (ICES), Study Group on Socio-
Economic Dimensions of Aquaculture
(S. **Ferse**, Study Group Member)

International Graduate School for Marine Sciences
(GLOMAR), Graduate Studies Committee
(H. **Westphal**, Committee Member)

International Hydrological Programme (IHP),
UNESCO, Working Group Ecohydrology
(R. **Lara**, Working Group Member)

International Ocean Institute (IOI), Committee
of Directors (W. **Ekau**, Chairman)

International Ocean Institute (IOI), Governing Board
(W. **Ekau**, Board Member)

International Ocean Institute (IOI), Operational
Centre Germany (W. **Ekau**, Director)

International Studies in Aquatic Tropical Ecology
(ISATEC), Selection Committee
(C. **Wild**, Deputy Member)

International Studies in Aquatic Tropical Ecology
(ISATEC), Study Programme
(M. **Wolff**, Programme Director)

Jacobs University, Board of Governors
(H. **Westphal**, Board Member)

Land-Ocean Interaction in the Coastal Zone
(LOICZ) (M. **Glaser**, Interims Director; Chief
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Land-Ocean Interaction in the Coastal Zone
(LOICZ), Scientific Steering Committee
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Warnemünde (IOW), Scientific Advisory Council
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M. **Zimmer**, M. **Wolff**, ZMT Representatives)

Leibniz Research Alliance “Crises in a Globalised
World” (A. **Schlüter**, ZMT Representative)

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Oceanography (A. **Gärdes**, Working Group Member)

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(SGMS), Steering Committee (H. **Westphal**,
Committee Member)

Studienkolleg zu Berlin, Selection Committee for the
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Universum Bremen, Scientific Advisory Board
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Memberships in editorial boards

Alpine and Mediterranean Quaternary (A. **Rovere**)

Ecology and Society (M. **Glaser**)

Ecotropica – An International Journal of
Tropical Ecology (U. **Saint-Paul**)

Estuarine, Coastal and Shelf Science
(T. **Jennerjahn**, M. **Teichberg**)

Frontiers in Agroecology and Land Use Systems
(M. **Zimmer**)

Frontiers in Microbiology: Microbial Symbioses
(M. **Zimmer**)

Frontiers in Population Dynamics (G. **Brandt**)
International Journal of Aquatic Biology (C. **Wild**)

Journal of Applied Ichthyology (U. **Saint-Paul**)

Journal of Ecosystems (U. **Saint-Paul**)

Journal of Indonesian Coral Reefs (M. **Glaser**)

Marine and Petroleum Geology (H. **Westphal**)

Marine Biology Research (M. **Teichberg**)

Pedobiologia - Journal of Soil Ecology (M. **Zimmer**)

PLOS ONE (S. **Ferse**)

Revista de biologia tropical (M. **Wolff**)

Soil Biology and Biochemistry (M. **Zimmer**)

Studies on Neotropical Fauna and Environment
(U. **Saint-Paul**)

Sustainability (M. **Glaser**)

Acronyms

AGU, American Geophysical Union

AiF, Industrial Research Association

AIMS, Australian Institute of Marine Science
(Australia)

ARTEC, Research Centre Sustainability, University
of Bremen

AWA, Ecosystem approach to the management
of fisheries and the marine environment in West
African waters

Acronyms

AWI, Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research	FWF, Austrian Science Fund	MoU, Memorandum of Understanding
ATBC, Association for Tropical Biology and Conservation	GENUS, Geochemistry and Ecology of the Namibia Upwelling System	MPA, Marine Protected Area
BIORESICO, Reconstructing the Biogeochemical Response of Indonesian Coastal Ecosystems to Environmental Change during the late Quaternary as Recorded by Marine Sediment Cores along the Sumatra – Java – Flores Transect	GEOMAR, Helmholtz Centre for Ocean Research Kiel	MSc, Master of Science
BIOVIBEN, Role of Estuarine Biogeochemistry on Abundance and Types of <i>Vibrio cholerae</i> in West Bengal	GIZ, Deutsche Gesellschaft für Internationale Zusammenarbeit mbH	OKE, Office of Knowledge Exchange
BMBF, Federal Ministry of Education and Research	GLOMAR, Global Change in the Marine Realm	PACE-Net Plus, Pacific Network for Science, Technology and Innovation
CANCOR, Carbon and Nitrogen Fixation in Coral Reefs	GMA, Gesellschaft für Marine Aquakultur mbH	PhD, Doctor of Philosophy
CARIMA, Natural versus Anthropogenic Controls of past Monsoon Variability in Central Asia Recorded in Marine Archives	GfÖ, Gesellschaft für Ökologie	PLOS ONE, Public Library of Science
CAU, Christian-Albrechts-Universität zu Kiel	gtö, Society for Tropical Ecology	REPICORE, Resilience of South Pacific coral reef social-ecological systems in times of global change
COGA, Functional role of carbonate secreting organisms in upwelling and non-upwelling zones of the Galapagos marine ecosystem	HARVEST, Harvest behaviour in common pool resource systems: data analysis and modelling of dynamic decision making	RV, Research vessel
CONCIMAR, Congreso de Ciencias del Mar del Perú	IB BMBF, International Bureau of the BMBF	SAME, Symposium on Aquatic Microbial Ecology
CoPoReSm: Common pool resources on smartphones	ICBM, Institute for Chemistry and Biology of the Marine Environment	SASCA, Sustainability analysis of scallop culture in Sechura Bay (Peru)
CORE, Coral Reef Ecology	ICES, International Council for the Exploration of the Sea	SCOR, Scientific Committee on Oceanic Research
COST, European Cooperative in Science and Technology	IFAN, Institut Fondamental d'Afrique Noire	SERC, Smithsonian Environmental Research Center
CSM-CMPA: Conservation and sustainable management of coastal and marine protected areas	ILAR, Improved Larval Raising	SGD-Nut, Submarine groundwater discharge from tropical islands as nutrient supply for marine ecosystems
DAAD, German Academic Exchange Service	IMBER, Integrated Marine Biogeochemistry and Ecosystem Research	SGMS, Center for Sino-German Cooperation in Marine Sciences
DATZ, Die Aquarienzeitschrift	IMS, Institute of Marine Sciences (Tanzania)	SPICE, Science for the Protection of the Indonesian Coastal Ecosystems
DFG, German Research Foundation	IOI, International Ocean Institute	SUTAS, Sustainable Use of Tropical Aquatic Systems
DGH, Deutsche Gesellschaft für Humanökologie	IOPAC, Indian Ocean and Pacific Conference	SymbioCore, Synergies through merging biological and biochemical expertise in coral research
DGM, Deutsche Gesellschaft für Meeresforschung	IPB, Bogor Agricultural Institute (Indonesia)	Triple C, Contribution to Coral Commons
DIW, German Institute for Economic Research	ISATEC, International Studies in Aquatic Tropical Ecology	UNHAS, Universitas Hasanuddin (Indonesia)
DOI, Digital Object Identifier	ITMEL, International Tropical Marine and Earth Science Laboratory	UNEP, United Nations Environment Programme
DPA, German Press Agency	IOW, Leibniz Institute for Baltic Sea Research Warnemünde	UNESCO, United Nations Educational, Scientific and Cultural Organization
ECSA, Estuarine and Coastal Sciences Association	JAMSTEC, Japan Agency for Marine-Earth Sciences and Technology	UNSOED, Universitas Jenderal Soedirman (Indonesia)
EU, European Union	KAUST, King Abdullah University of Science and Technology (Saudi Arabia)	UNUD, Universitas Udayana (Indonesia)
EPOXI: Effect of soft coral pulsation on dissolved oxygen availability and hard coral mortality in interactions with benthic macroalgae	KFT, German Commission for Research Diving	WIOMSA, Western Indian Ocean Marine Science Association
ExCoRe, Experimental Coral Reproduction	LiCor-OA: Expected limits of coral calcification under ocean acidification	ZFMK, Zoological Research Museum Alexander König
FAO, Food and Agricultural Organisation of the United Nations	LOICZ, Land-Ocean Interactions in the Coastal Zone	ZMT, Leibniz-Zentrum für Marine Tropenökologie / Leibniz Center for Tropical Marine Ecology
FORCE, Future of Coral Reefs in a Changing Environment	MADAM, Mangrove Dynamics and Management	
	MARUM, Center for Marine Environmental Sciences	
	MAREE, Marine Experimental Ecology	
	MESMA, Monitoring and Evaluation of Spatially Managed Areas	



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