

– CONTRIBUTORS –

Sven Beer (PhD) is Professor of Marine Botany at the Faculty of Life Sciences, Tel Aviv University. His research interests focus on photosynthetic carbon acquisition in submerged plants, mainly macroalgae and seagrasses, marine photosymbioses and methods for measuring photosynthetic productivity in situ. He has authored over a hundred scientific publications dealing largely with seagrass photosynthesis and ecophysiology.

Charlotte Berkström (PhD) is currently a Post-doctoral researcher at the Department of Systems Ecology, Stockholm University, where she also completed her doctorate in 2012. She has a BSc (Hons) from James Cook University, Australia. Her current research focuses on ecological connectivity in the tropical seascape, particularly on movement of functional groups between coral reefs, seagrass beds and mangroves in East Africa. Other areas of interest include fish-habitat and food web interactions, landscape ecology and conservation biology.

Mats Björk (PhD) is Professor of Marine Plant Physiology at Stockholm University. He earned his doctorate degree in 1992 from Uppsala University, Sweden and his research focuses on marine plants in tropical environments and how they are affected by pollution and ocean acidification. He has a strong international profile, has been a visiting scholar at UDSM, Tanzania, and has also long been coordinating various educational projects that train university teachers and experts in marine sciences at the University of Dar es Salaam.

Amelia S. Buriyo (PhD) is Lecturer in the Department of Botany, University of Dar es Salaam (UDSM), Tanzania. Her current research activities focus on unraveling the taxonomic complexity of Gracilaria and Sargassum groups and screening of suitable local species and strains of macroalgae in light of diversifying the seaweed industry in Tanzania. She is also working in collaboration with other researchers from Departments of Chemistry and Molecular Biology and Biotechnology, UDSM and University of Dodoma in screening for anti-bacterial and anti-malarial substances from macroalgae.

Maricela de la Torre-Castro (PhD) is Associate Professor at Stockholm University, from where she obtained her doctorate. She has a background in natural resource management and oceanology and a long history of cooperation with social scientists in interdisciplinary projects. Her research focuses on linked social-ecological systems in coastal communities in tropical developing countries, and she has done research in Chwaka Bay since 2000. She has investigated the value of seagrasses for local populations in East Africa. Her main interests are to understand human-nature interactions, sustainable development and how to break poverty traps and increase human well-being. Her projects deal with seagrass ecology, ecosystems goods and services, women issues, small-scale fisheries (fin-fish and invertebrates), and adaptation to climate change and livelihoods in the coastal zone.

Martijn Dorenbosch (PhD) conducted a large part of his doctorate research (2002-2006) on the coral reefs, seagrass beds and mangroves of Zanzibar where he focused on the connectivity among these habitats for coral reef fishes. At present, he is working as a senior scientist in the field of aquatic ecology at the Netherlands Institute of Ecology (NIOO-KNAW, Wageningen, the Netherlands) where he studies plant – animal interactions, in particular the mechanism of herbivory. Within this context, he conducted a short research project in 2011 (in cooperation with the Institute of Marine Sciences) in Chwaka Bay to study grazing selectivity by parrotfishes. Additionally, he is working in a nature consultancy consortium in the Netherlands on population changes of fish assemblages in Dutch rivers in relation to invasive species, nature conservation measurements and climate effects.

Johan S. Eklöf (PhD) has worked with environmental and socio-economic effects from and management of open-water seaweed farming and artisanal coastal fisheries in East Africa since 2002. Currently, his work focuses on how changes in biodiversity influence the responses of coastal ecosystems to climate change, and to what extent area-based fisheries co-management can reduce trade-offs and maximize synergies between coastal ecosystem services (e.g. biodiversity protection and fisheries).

Sara Fröcklin is a doctoral candidate at the Department of Systems Ecology, Stockholm University. She has a BSc in Biology-Earth Sciences and a MSc in Biology from Stockholm University. Her current research interests include the management of social-ecological systems, from a gender perspective. In particular her research focuses on identifying the role of women and further the gender roles in coastal livelihoods, such as small-scale fisheries and seaweed mariculture in Zanzibar, Tanzania.

Martin Gullström (PhD) is Associate Professor in marine ecology at the Department of Systems Ecology, Stockholm University. He obtained his doctorate degree from the Department of Marine Ecology, University of Gothenburg. His research interests concern marine spatial ecology; landscape ecology; ecological connectivity; trophic interactions: fish/fisheries ecology; and seagrass ecology/ecophysiology related to carbon sequestration, ocean acidification and climate change. Most of his research is particularly linked to spatial resource management and nature conservation of the coastal marine environment. Martin has worked in the East Africa region since 1999.

Elin Håkansson received her MSc in Biology in 2006 at Stockholm University. She has wide experience working with environmental monitoring at national level at the Swedish Environmental Agency. Focus has been on monitoring of the marine environment and lately she has been involved in the agency's work with the European INSPIRE directive. She is also interested in GIS and its applications for management. She is studying part time at Lund University working towards a degree of MSc in GIS.

Narriman S. Jiddawi (PhD) is a Senior Lecturer at the Institute of Marine Sciences (IMS). She has extensive experience in fisheries management, mariculture and woman in development issues. She has done extensive work on natural resources (marine mammals, turtles, crustacean, sea cucumber, sharks, shells etc.) and livelihood issues specifically for women in Tanzania. She has conducted several multidisciplinary projects with various scientists from Sweden, Portugal, Norway and other parts of the world. Currently she is working on a pearl farming project with women groups in Fumba Peninsula which earned them an exchange visit to the University of Rhode Island through USAID in 2009. She is also a Pew fellow since 2006.

Juma W. Kangwe (PhD) is a Principal Research Officer at the Tanzania Fisheries Research Institute in Tanzania since September 1994. His PhD was awarded by the Department of Botany, Stockholm University, Sweden in 2006. His research focuses on marine plant eco-physiology, specifically on calcareous algae of the genus *Halimeda* and *Rhodoliths*. Other research areas of interest include pollution, fish stock assessment and coral reef ecology.

Linda Kumblad (PhD) is Associate Professor, working part-time at the Department of Systems Ecology, Stockholm University, from where she earned her doctorate. Her research interest includes integrated coastal zone management, systems ecology and ecological risk assessments. Her current research focuses on anthropogenic disturbances and their quantification in coastal ecosystems in tropical and temperate regions.

Lars Lindström (PhD) is Senior Lecturer in Political Science at Stockholm University, Sweden, where he earned his doctorate. His research interests are in the areas of globalization, labor and democratization, and management of marine resources in poverty contexts. He is the co-founder of the Politics of Development Group at Stockholm University (PODSU) and of DevNET, the Development Network on Nature, Poverty and Power. He has co-edited and co-authored several publications on the themes of globalization, governance and resistance, as well as development in the seascape.

Blandina Lugendo (PhD) is a Lecturer in Marine Ecology at the University of Dar es Salaam, Tanzania. She holds a BSc in Marine Biology and Microbiology (1995) and an MSc in Marine Biology (2000), both from the University of Dar es Salaam, and a PhD in Fish Ecology (2007) from the Radboud University, Nijmegen, the Netherlands. Her research interests include fish and fisheries ecology, mangrove and seagrass ecology, stable isotope and trophic relationship studies, and general marine biology.

Charles Lugomela (PhD) is a Senior Lecturer at the University of Dar es Salaam. He has over 15 years' experience in tropical marine ecology. He obtained his Bachelors and Masters Degrees from the University of Dar es Salaam in 1993 and 1996, respectively, and his PhD from Stockholm University in 2002. His areas of

interest are on nutrient dynamics, foodweb interactions, plankton and microphytobenthic eco-physiology. He has so far published more than 20 articles in local and international journals. He is an active member of the Western Indian Marine Science Association (WIOMSA).

Thomas J. Lyimo (PhD) is Associate Professor in the Department of Molecular Biology and Biotechnology (MBB) at the University of Dar es Salaam. Currently he is also Deputy Principal at the College of Natural and Applied Sciences, University of Dar es Salaam. He holds an MSc and a PhD in microbiology, specializing on marine ecosystems. He has extensive experience on aquatic microbial ecology in coastal ecosystems, focusing on bacteria, cyanobacteria and microalgae in near shore waters, seagrass beds and mangroves. He has also worked in various aquatic ecosystems of Tanzania with focus on water quality (microbial and nutrients) in relation to environmental factors, climate change and management.

Shigalla Mahongo is a Senior Research Officer at Tanzania Fisheries Research Institute (TAFIRI) and currently a doctoral student at the University of Dar es Salaam, Tanzania. His main areas of expertise include sea level variability and change, ocean modeling, climate change, coastal meteorology, coastal management, ocean-atmosphere interactions, neural network modeling and fisheries management.

Yunus D. Mgaya (PhD) is a Professor of Marine Biology at the University of Dar es Salaam, Tanzania. Currently he is also Deputy Vice Chancellor (Administration) at the University of Dar es Salaam. He holds a BSc in Zoology and Marine Biology (1986) from the University of Dar es Salaam, an MSc in Fisheries Biology and Management (1989) from the University of British Columbia (Vancouver) and a PhD in Mariculture (1995) from the National University of Ireland (Galway). His research interest revolves around fisheries biology, fish ecology, aquaculture and living marine resources and he has published more than 50 articles in local and international journals including chapters in books.

Aviti J. Mmochi (PhD) is a Lecturer at the Institute of Marine Sciences of the University of Dar es Salaam, Tanzania specialized in marine chemistry. His research interests range from marine organic and inorganic pollution, especially nutrients and pesticides, water and waste water treatment, and mariculture development.

Mohammed S. Mohammed is an assistant lecturer at the Department of Sciences at the State University of Zanzibar. He is currently finishing his PhD on coral disease dynamics on the coast of Tanzania at the Institute of Marine Sciences, University of Dar es Salaam. Other research includes studies on impacts of climate change and deteriorating water quality on the health of corals. He is also involved in coral reef monitoring in Tanzania.

Salim Mohammed (PhD) is a Senior Lecturer at the Institute of Marine Sciences, Zanzibar. His main research focus is in nutrient dynamics in mangroves and other coastal ecosystems. His other interests are on Integrated Coastal Management and

environmental conservation. He has extensively cooperated with international researchers in basic and applied topics.

Flower E. Msuya (PhD) is a senior researcher at the Institute of Marine Sciences, University of Dar es Salaam, Tanzania. Her research interest is mainly on seaweed farming, and on aspects like environmental and socio-economic impacts; innovative farming and value addition; and integrated aquaculture and seaweed bio-filters. She is also interested in impacts of climate change, climate innovation and entrepreneurship. Flower is the Facilitator of the Zanzibar Seaweed Cluster Initiative (www.secitz.com) working with seaweed innovation and value addition.

Matern S.P. Mtolera (PhD) is organizer of the Sida-funded Marine Science Program that has been facilitating over 20 years of cooperation between Tanzanian and Swedish scientists, contributing in alleviating food and financial poverty in coastal communities in Tanzania, public policy and resource management in Tanzania and the WIO region. He was awarded his PhD at Uppsala University in 1996. He has supervised several PhD and MSc students, co-authored the “Marine Plants of Tanzania: a field guide to the seaweeds and seagrasses” and produced several journal papers and scientific reports. He is currently senior lecturer at the Institute of Marine Sciences, UDSM.

Christopher A. Muhando (PhD) is a Senior Lecturer at the Institute of Marine Sciences (IMS), University of Dar es Salaam. Besides, doing research and consultancy work, Dr. Muhando is teaching and supervising postgraduate students studying coral reef ecology and/or using GIS as a tool. He is also responsible for the management of the IMS GIS Database, leading the IMS Coral Reef Monitoring group and the development of the Tanzania Coastal and Marine Atlas. His future interests include the use of GIS and coastal spatial planning as tools for coral reef and coastal area management.

Alfred N. N. Muzuka (PhD) is a Professor at the Nelson Mandela African Institute of Science and Technology in Arusha, Tanzania. His research focuses on the past and present climate change and application of stable isotopes in environmental studies. Other research interests are aquatic pollution and low temperature geochemistry.

Augustine W. Mwandya (PhD) is a Lecturer of Fisheries Biology and Aquaculture at Sokoine University of Agriculture, Tanzania. Mwandya holds a BSc in Chemistry and Marine Biology (1996) from the University of Dar es Salaam, an MSc. in Marine Biology and Aquaculture (2001) from the University of Dar es Salaam and a PhD in Animal (Fish) Ecology (2009) from Stockholm University, Sweden. His research interest is in aquaculture, aquatic ecology and water quality and he has published articles in local and international journals.

Ntahondi Nyandwi (PhD) is Senior Lecturer at the Institute of Marine Sciences. His research experience is wide, including coastal erosion, sediment transport, hydrodynamics, oceanography, marine geology and climate change. He graduated

with a BSc in Geology and an MSc in Marine Geotechniques, and later obtained a PhD with a thesis on sedimentation processes of the German Wadden Sea. As senior academic staff member, he has coordinated a number of academic activities including research projects and teaching programs. He has been the Associate Director (Academic) since 2001 and oversees teaching and evaluation in the MSc coursework as well as the administration of other MSc and PhD studies.

Sware Semesi (PhD) is currently lecturing at the Department of Aquatic Sciences and Fisheries, University of Dar es Salaam. She is trained in botany, marine biology and in the management of natural resources and sustainable agriculture, and her research interests are on topics related to the functioning and management of marine ecosystems; eco-physiology of marine and estuarine plants. She has been involved in a number of research activities on areas of marine and coastal resources, particularly on mangroves, seagrasses and macroalgae in topics related to resources utilization, seawater CO_2 and pH physiological interactions in coastal lagoons.

Yohanna W. Shaghude (PhD) is a Senior Lecturer at the Institute of Marine Sciences (IMS), University of Dar es Salaam. He holds a BSc in Geology, and Advanced Diploma in Marine Affairs, an MSc in Oceanography and a PhD in Sedimentology. His main field of research is coastal and marine sedimentology and shoreline changes. He has also conducted research involving sea bottom mapping, river and ocean interaction in the coastal zone and remote sensing applications on coastal processes. He is currently teaching remote sensing modules in the IMS postgraduate (Marine Science) program.

Nadja Stadlinger is a doctoral candidate at the Stockholm University, Department of Systems Ecology. Her research interests include the management of social-ecological systems in addition to ecotoxicology and ecological risk assessments. Her current research focuses on pesticide management in Zanzibar, Tanzania, from grass root to institutional level, but she also works with different pest and production management methods and their estimated social and environmental effects in Zanzibar and Vietnam.

Siegling Wallner is a PhD student at the Department of Systems Ecology at Stockholm University. Her research concerns social-ecological systems in developing countries and transformation towards a more sustainable use of natural resources for the benefit of both – local people and ecosystems. Her work is interdisciplinary and focuses currently on the management of seagrass-associated small-scale fisheries in East Africa, where she is working with different methods such as interview studies and ecological sampling.