

## Publications in frame of the SPICE Program (state August 2016)

### A. SPICE I and II

#### **Cluster 1: Dynamics of Coral Reefs, Tropical Seagrass Beds and Water Column Processes-Linkages and Resilience to Disturbance**

- Borell E.M., Bischof K., Yulantri A., Richter C. (2008). The effect of heterotrophy on photosynthesis and tissue composition of two scleractinian corals under elevated temperature. *Journal of Experimental Marine Biology and Ecology* 364: 116-123.
- Borell E.M., Bischof K. (2008). Feeding sustains photosynthetic quantum yield of a scleractinian coral during thermal stress. *Oecologia* 157: 593-601.
- Borell E.M., Romatzki S.B.C., Ferse S.C.A. (2010). Differential physiological responses of two congeneric scleractinian corals to mineral accretion and an electric field. *Coral Reefs* 29:191-200.
- Cornils A., Schulz J., Schmitt P., Lanuru M., Richter C., Schnack-Schie, S.B. (2010). Mesozooplankton distribution in the Spermonde Archipelago (Indonesia, Sulawesi) with special reference to the Calanoida (Copepoda). *Deep-Sea Research II*, 57: 2076-2088.
- Dohna TA, Timm T, Hamid L, Kochzius M (2015). Limited connectivity and a phylogeographic break characterize populations of the pink anemonefish, *Amphiprion perideraion*, in the Indo-Malay Archipelago: inferences from a mitochondrial and microsatellite loci. *Ecology and Evolution* doi: 10.1002/ece3.1455.
- Dohna TA, Kochzius M (2015). Obstacles to molecular species identification in sea anemones (Hexacorallia: Actiniaria) with COI, a COI intron, and ITS II. *Marine Biodiversity* DOI 10.1007/s12526-015-0329-5
- Hui M., Kochzius M., Leese F. (2012). Isolation and characterisation of nine microsatellite markers in the boring giant clam (*Tridacna crocea*) and cross-amplification in five other tridacnid species. *Marine Biodiversity* 42: 285-287.
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- Kneer D., Asmus H., Ahnelt H., Vonk J.A. (2008). Records of *Austrolethops wardi* Whitley (Teleostei: Gobiidae) as an inhabitant of burrows of the thalassinid shrimp *Neaxius acanthus* in tropical seagrass beds of the Spermonde Archipelago, Sulawesi, Indonesia. *Journal of Fish Biology*, 72: 1095-1099.
- Kneer D., Monniot F., Stach T., & Christianen M.J.A. (2013). *Ascidia subterranea* sp. nov. (Phlebobranchia: Ascidiidae), a new tunicate belonging to the *A. sydneiensis* Stimpson, 1855 group, found as burrow associate of *Axiopsis serratifrons* A. Milne-Edwards, 1873 (Decapoda: Axiidae) on Derawan Island, Indonesia. *Zootaxa* 3616 (5): 485-494.
- Kneer D., Asmus H., Jompa J. (2013). Do burrowing callianassid shrimp control the lower boundary of tropical seagrass beds? *Journal of Experimental Marine Biology and Ecology* 446:262-272.
- Knittweis L., Krämer W.E., Timm J., Kochzius M. (2009). Genetic structure of *Heliofungia actiniformis* (Scleractinia: Fungiidae) populations in the Indo-Malay Archipelago: implications for live coral trade management efforts. *Conservation Genetics* 10: 241-249.

- Knittweis L., Jomp, J., Richter C. and Wolff M. (2009). Population dynamics of the mushroom coral /*Heliofungia actiniformis* in the Spermonde Archipelago, South Sulawesi, Indonesia. *Coral Reefs* 28: 793-804.
- Knittweis, L., Wolff M. (2010). Live coral trade impacts on the mushroom coral *Heliofungia actiniformis* in Indonesia: Potential future management approaches. *Biological Conservation* 143: 2722-2729.
- Kochzius M., Nuryanto A. (2008). Strong genetic population structure in the boring giant clam *Tridacna crocea* across the Indo-Malay Archipelago: implications related to evolutionary processes and connectivity. *Molecular Ecology* 17: 3775-3787.
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- Madduppa HH, Timm J, Kochzius M (2014). Interspecific, spatial and temporal variability of self-recruitment in anemonefishes. *PLoS ONE* 9(2): e90648. doi:10.1371/journal.pone.0090648.
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- Timm J., Figiel M., Kochzius M. (2008). Contrasting patterns in species boundaries and evolution of anemonefishes (Amphiprioninae, Pomacentridae) in the centre of marine biodiversity. *Molecular Phylogenetics and Evolution* 49: 268-276.
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## **Cluster 2: Mangrove Ecology**

- Ardli E.R., Wolff M. (2009). Land use and land cover change affecting habitat distribution in the Segara Anakan lagoon, Java, Indonesia. In: *Segara Anakan, Java, Indonesia, a mangrove-fringed coastal lagoon affected by human activities*, (eds. T.C. Jennerjahn & Edy Yuwono), special issue, *Regional Environmental Change* 9:235-243.
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- Hinrichs S., Nordhaus I., Geist S.J. (2009). Status, diversity and distribution patterns of mangrove vegetation in the Segara Anakan lagoon, Java, Indonesia. In: *Segara Anakan, Java, Indonesia, a mangrove-fringed coastal lagoon affected by human activities*, (eds. T.C. Jennerjahn & Edy Yuwono), special issue, *Regional Environmental Change* 9: 275-289.
- Holtermann P., Burchard H., Jennerjahn T. (2009). Hydrodynamics of the Segara Anakan lagoon. In: *Segara Anakan, Java, Indonesia, a mangrove-fringed coastal lagoon affected by human activities*, (eds. T.C. Jennerjahn & Edy Yuwono), special issue, *Regional Environmental Change* 9: 245-258.

- Jennerjahn T.C., Nasir B., Pohlenga I. (2009). Spatio-temporal variation of dissolved inorganic nutrients related to hydrodynamics and land use in the mangrove-fringed SegaraAnakan Lagoon, Java, Indonesia. In: *Segara Anakan, Java, Indonesia, a mangrove-fringed coastal lagoon affected by human activities*, (eds. T.C. Jennerjahn & Edy Yuwono), special issue, *Regional Environmental Change* 9: 259-274.
- Jennerjahn T.C., Yuwono E. (2009). Segara Anakan, Java, Indonesia, a mangrove-fringed coastal lagoon affected by human activities (editorial). In: *Segara Anakan, Java, Indonesia, a mangrove-fringed coastal lagoon affected by human activities*, (eds. T.C. Jennerjahn & Edy Yuwono), special issue, *Regional Environmental Change* 9: 231-233.
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- Kleinertz S., Damriyasa M., Hagen W., Theisen S., Palm H.W. (2012). An environmental assessment of the parasite fauna of the reef-associated grouper *Epinephelus areolatus* from Indonesian waters. *Journal of Helminthology*. doi:10.1017/S0022149X12000715.
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- Palm H.W., Kleinertz S., Rückert S. (2011). Parasite diversity as an indicator of environmental change? - an example from tropical grouper (*Epinephelus fuscoguttatus*) mariculture in Indonesia. *Parasitology* 138: 1-11.
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## **Ecology and Aquaculture**

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- Cluster 4: Impact of land-sea fluxes from major rivers of East-Sumatra on coastal ecosystem health: pollutant loads, transport and fate**
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## **Cluster 5: Marine Geology and Biogeochemistry**

- Hessler I., Young M., Holzwarth U., Mohtadi M., Lückge A., Behling H. (2013). Imprint of eastern Indian Ocean surface oceanography on modern organic-walled dinoflagellate cyst assemblages. *Marine Micropaleontology* 101, 89-105.
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### **Brantas and Madura Strait Monitoring**

- Adi S., Jänen I. & Jennerjahn T.C. (2013). History of development and attendant environmental changes in the Brantas River basin, Java, Indonesia, since 1970. In: Environmental change affecting the Brantas River and Madura Strait coastal zone, Java, Indonesia. Special issue, *Asian Journal of Water, Environment and Pollution* 10: 5-15.
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