Suggested Reading - Indonesia Marine

Projects - *links to research areas*

Fish and Fisheries
Mangroves
Development and Human Impact
Reef Ecology and Dynamics
Marine Mammals

Also check the Operation Wallacea website library pages for publications and research reports

Fish and Fisheries Projects

The effects of changing reef structure on coral reef fish populations and its consequences for *fishermen/dive tourism*

The importance of fish to a healthy functioning reef

Bellwood DR, et al., (2004) Confronting the coral reef crisis. *Nature*. **429**; 827-833

Ceccarelli DM, (2007) Modification of benthic communities by territorial damselfish: a multi-species comparison. *Coral reefs*. **26**; 853-866

Cote IM, & Cheney KL (2005) Animal mimicry: Choosing when to be a cleaner-fish mimic - A dangerous fish can discard a seemingly harmless disguise to suit its circumstances. *Nature*. **433**; 211-212

Emslie MJ, et al., (2008) Recovery from disturbance of coral and reef fish communities on the Great Barrier Reef, Australia. *Marine Ecology Progress Series*. **371**; 177-190

Francini RB, et al., (2008) Dynamics of fish assemblages on coral reefs subjected to different management regimes in the Abrolhos Bank, eastern Brazil. *Aquatic Conservation- Marine and Freshwater Ecosystems*. **18**; 1166-1179

Frederich B, et al., (2008) Comparative trophic morphology in eight species of damselfishes (Pomacentridae). *Journal of Morphology*. **269**; 175-188

Gratwicke B, et al., (2006) Fish distribution and ontogenetic habitat preferences in non-estuarine lagoons and adjacent reefs. *Environmental Biology of Fisheries*. **76**; 191-210

Gratwicke B, & Speight MR, (2005) The relationship between fish species richness, abundance and habitat complexity in a range of shallow tropical marine habitats. *Journal of Fish Biology*. **66**; 650-667

Gratwicke B, & Speight MR, (2005) Effects of habitat complexity on Caribbean marine fish assemblages. *Marine Ecology Progress Series*. **292**; 301-310

Kramer KL, & Heck KL, (2007) Top-down trophic shifts in Florida Keys patch reef marine protected areas. *Marine Ecology Progress Series*. **349**; 111-123

Lokrantz J, et al., (2008) The non-linear relationship between body size and function in parrotfishes. *Coral Reefs*. **27**; 967-974

Mantyka CS, & Bellwood DR, (2007) Macroalgal grazing selectivity among herbivorous coral reef fishes. *Marine Ecology Progress Series*. **352**; 177-185

Mumby PJ, et al., (2007) Thresholds and the resilience of Caribbean coral reefs. *Nature*. **450**; 98-101

Ronaldo RM, & Bellwood DR, (2008) Size-dependent variation in the functional role of the parrotfish Scarus rivulatus on the Great Barrier Reef, Australia. *Marine Ecology Progress Series*. **360**; 237-244

Sabater MG, & Tofaeono SP (2007) Scale and benthic composition effects on biomass and trophic group distribution of reef fishes in American Samoa. *Pacific Science*. **61**; 503-520

Soares MC, et al (2008) Does cleanerfish service quality depend on client value or choice options? *Animal Behaviour*. **76**; 123-130

Soares MC, et al (2008) The meaning of jolts by fish clients of cleaning gobies. *Ethology*. **114**; 209-214

Unsworth R.K.F., A. Powell, F. Hukom and D.J. Smith. (2007) The effectiveness of small scale 'No-take Areas' as tools in conservation management of locally exploited coral reef fisheries. *Marine Biology* **1152**: 243-254

Unsworth RKF, et al., (2007) The ecology of Indo-Pacific grouper (Serranidae) species and the effects of a small scale no take area on grouper assemblage, abundance and size frequency distribution. *Marine Biology*. **152**; 243-254

Valentine JF, et al., (2008) Exploited species impacts on trophic linkages along reef-seagrass interfaces in the Florida keys. *Ecological Applications*. **18**; 1501-1515

Mangrove Projects

The consequences of human disturbance and pollution on the health *and/or* functioning of the mangrove systems

General

Alongi DM et al., (2008) Growth and development of mangrove forests overlying smothered coral reefs, Sulawesi and Sumatra, Indonesia. *Marine Ecology Progress Series*. **370**; 97-109

Alongi DM (2002) Present state and future of the world's mangrove forests. *Environmental Conservation*. **29**; 331-349

Armitage D (2002) Socio-institutional dynamics and the political ecology of mangrove forest conservation in Central Sulawesi, Indonesia. *Global Environmental Change-Human and Policy Dimensions*. **12**; 203-217

Bosire JO, et al., (2008) Functionality of restored mangroves: A review. *Aquatic Botany*. **89**; 251-259

Cannicci S, et al., (2008) Faunal impact on vegetation structure and ecosystem function in mangrove forests: A review. *Aquatic Botany*. **89**; 186-200

Duke NC, et al., (2007) A world without mangroves? *Science*. **317**; 41-42

Ellison AM (2008) Managing mangroves with benthic biodiversity in mind: Moving beyond roving banditry. *Journal of Sea Research*. **59**; 2-15

Ewel KC, et al., (1998) Different kinds of mangrove forests provide different goods and services. *Global Ecology and Biogeography*. **7**; 83-94

Gilman EL, et al., (2008) Threats to mangroves from climate change and adaptation options: A review. *Aquatic Botany*. **89**; 237-250

Harborne AR, et al., (2006) The functional value of Caribbean coral reef, seagrass and mangrove habitats to ecosystem processes. *Advances in Marine Biology*. **50**; 57-189

Nagelkerken I, et al., (2008) The habitat function of mangroves for terrestrial and marine fauna: A review. *Aquatic Botany*. **89**; 155-185

Naylor RL, et al., (2002) Migration, markets, and mangrove resource use on Kosrae, Federated States of Micronesia. *AMBIO*. **31**; 340-350

Ronnback P, et al., (2007) The return of ecosystem goods and services in replanted mangrove forests: perspectives from local communities in Kenya. *Environmental Conservation*. **34**; 313-324

Walters BB, et al., (2008) Ethnobiology, socio-economics and management of mangrove forests: A review. *Aquatic Botany*. **89**; 220-236

Walters BB (2004) Local management of mangrove forests in the Philippines: Successful conservation or efficient resource exploitation? *Human Biology*. **32**; 177-195

Fish nurseries

Dorenbosch M, et al., (2006) Seagrass beds and mangroves as potential nurseries for the threatened Indo-Pacific humphead wrasse, *Cheilinus undulatus* and Caribbean rainbow parrotfish, *Scarus quacamaia*. *Biological Conservation*. **129**; 277-282

Dorenbosch M, et al., (2005) Indo-Pacific seagrass beds and mangroves contribute to fish density coral and diversity on adjacent reefs. *Marine Ecology Progress Series*. **302**; 63-76

Drew CA, & Eggleston DB (2008) Juvenile fish densities in Florida Keys mangroves correlate with landscape characteristics. *Marine Ecology Progress Series*. **362**; 233-243

Faunce CH, & Serafy JE (2008) Selective use of mangrove shorelines by snappers, grunts, and great barracuda. *Marine Ecology Progress Series*. **356**; 153-162

Gratwicke B, et al., (2006) Fish distribution and ontogenetic habitat preferences in non-estuarine lagoons and adjacent reefs. *Environmental Biology of Fishes*. **76**; 191-210

Grol MGC, et al., (2008) Mangroves and seagrass beds do not enhance growth of early juveniles of a coral reef fish. *Marine Ecology Progress Series*. **366**; 137-146

Mumby PJ, et al., (2004) Mangroves enhance the biomass of coral reef fish communities in the Caribbean. *Nature*. **427**; 533-536

Nagelkerken I, & van der Velde (2004) Are Caribbean mangroves important feeding grounds for juvenile reef fish from adjacent seagrass beds? *Marine Ecology Progress Series*. **274**; 143-151

Tse P, et al., (2008) Nursery function of mangrove: A comparison with mudflat in terms of fish species composition and fish diet. *Estuarine Coastal and Shelf Science*. **80**; 235-242

Unsworth RKF, et al., (2008) High connectivity of Indo-Pacific seagrass fish assemblages with mangrove and coral reef habitats. *Marine Ecology Progress Series*. **353**; 213-224

Pollution and coastal protection

Fabricius KE, (2005) Effects of terrestrial runoff on the ecology of corals and coral reefs: review and synthesis. *Marine Pollution Bulletin*. **50**; 125-146

Granek EF, & Ruttenberg BI (2007) Protective capacity of mangroves during tropical storms: a case study from 'Wilma' and 'Gamma' in Belize. *Marine Ecology Progress Series*. **343**; 101-105

Hussian SA, & Badola R, (2008) Valuing mangrove ecosystem services: linking nutrient retention function of mangrove forests to enhanced agroecosystem production. *Wetlands Ecology and Management*. **16** (6); 441-450

Kristensen E, et al., (2008) Emission of CO2 and CH4 to the atmosphere by sediments and open waters in two Tanzanian mangrove forests. *Marine Ecology Progress Series*. **370**; 53-67

Lee SY, (2009) Mangrove macrobenthos: Assemblages, services, and linkages. *Journal of Sea Research*. **59**; 16-29

Luhar M, et al., (2008) Interaction between flow, transport and vegetation spatial structure. *Environmental Fluid Mechanics*. **8**; 423-439

Prasad MBK, (2008) Sedimentary nutrient dynamics in a tropical estuarine mangrove ecosystem. *Estuarine Coastal and Shelf Science*. **80** (1); 60-66

Vermaat JE, & Thampanya U, (2006) Mangroves mitigate tsunami damage: A further response. *Estuarine Coastal and Shelf Science*. **69**; 1-3

Walton MEM, et al., (2006) Are mangroves worth replanting? The direct economic benefits of a community-based reforestation project. *Environmental Conservation*. **33**; 335-343

Development and Human Impact Projects

Assessing the human impact on the marine environment and reef systems

Ainsworth CH, et al., (2008) Ecosystem simulations supporting ecosystem-based fisheries management in the Coral Triangle, Indonesia. *Ecological Modelling*. **214**; 361–374

Anthony KRN, (2000) Enhanced particle-feeding capacity of corals on turbid reefs (Great Barrier Reef, Australia). *Coral Reefs*. **19**; 59-67

Battey JF, & Patton JS, (1984) A reevaluation of the role of glycerol in carbon translocation in zooxanthellae-coelenterate symbiosis. *Marine Biology*. **79;** 27-38

Baker AC, et al., (2004) Corals' adaptive response to climate change. *Nature*. **430**; 741

Campbell SJ, & Pardede ST, (2006) Reef fish structure and cascading effects in response to artisanal fishing pressure. *Fisheries Research.* **79**; 75–83

Crabbe JC, & Smith DJ, (2006) Modelling variations in corallite morphology of Galaxea fascicularis coral colonies with depth and light on coastal fringing reefs in the Wakatobi Marine National Park (S.E. Sulawesi, Indonesia). *Computational Biology and Chemistry*. **30**; 155-159

Crabbe JC, & Smith DJ (2005) Sediment impacts on growth rates of *Acropora* and *Porites* corals from fringing reefs of Sulawesi, Indonesia. *Coral Reefs*.**21**; 242-244

Crabbe JC, & Smith DJ, (2002) Comparison of two reef sites in the Wakatobi Marine National Park (SE Sulawesi, Indonesia) using digital image analysis. *Coral Reefs*. **21**: 242–244

Edmunds PJ, (2008) The effects of temperature on the growth of juvenile scleractinian corals. *Marine Biology*. **154**; 153-162

Fabricius KE, (2005) Effects of terrestrial runoff on the ecology of corals and coral reefs: review and synthesis. *Marine Pollution Bulletin*. **50**; 125-146

Hennige SJ, et al., (2008) Photoacclimation, growth and distribution of massive coral species in clear and turbid waters. *Marine Ecology Progress Series*. **369**; 77-88

Mallela J, (2007) Coral reef encruster communities and carbonate production in cryptic and exposed coral reef habitats along a gradient of terrestrial disturbance. *Coral Reefs*. **26**; 775-785

Mangi SC, & Roberts CM, (2006) Quantifying the environmental impacts of artisanal fishing gear on Kenya's coral reef ecosystems. *Marine Pollution Bulletin.* **52**; 1646–1660

Meesters EH, et al., (2001) Colony size-frequency distributions of scleractinian coral populations: spatial and interspecific variation. *Marine Ecology Progress Series*. **209**; 43-54

Negri AP, et al., (2002) Understanding ship-grounding impacts on a coral reef: potential effects of anti-foulant paint contamination on coral recruitment. *Marine Pollution Bulletin*. **44**; 111–117

Pitcher TJ, et al., (2009) An evaluation of progress in implementing ecosystem-based management of fisheries in 33 countries. *Marine Policy*. **33**; 223– 232

Pomeroy R., et al (2007) Fish wars: Conflict and collaboration in fisheries management in Southeast Asia. *Marine Policy*. **31;** 645–656

Wakeford M, et al., (2008) Decadal trends in a coral community and evidence of changed disturbance regime. *Coral Reefs*. **27**; 1-13

The importance and impact of agar farming to the *local economy / marine ecosystem*

Fei XG (2004) Solving the coastal eutrophication problem by large scale seaweed cultivation. *Hydrobiologia*. **512**; 145-151

Namudu MT, & Pickering TD (2006) Rapid survey technique using socio-economic indicators to assess the suitability of Pacific Island rural communities for Kappaphycus seaweed farming development. *Journal of Applied Phycology*. **18**; 241-249

Pickering T (2006) Advances in aquaculture among Pacific Island countries. *Journal of Applied Phycology*. **18**; 227-234

Smit AJ, (2004) Medicinal and pharmaceutical uses of seaweed natural products: A review. *Journal of Applied Phycology*. **16**; 245-262

Yang YF, et al., (2006) Growth of *Gracilaria lemaneiformis* under different cultivation conditions and its effects on nutrient removal in Chinese coastal waters. *Aquaculture*. **254**, 248-255

Reef Ecology and Dynamics Projects

Reef biodiversity driven by *patch dynamics / artificial reefs / coral boomie size and distribution*

The importance of cleaner fish and stations on coral reef health

Fabricius KE, (2005) Effects of terrestrial runoff on the ecology of corals and coral reefs: review and synthesis. *Marine Pollution Bulletin*. **50**; 125-146

Gratwicke B, & Speight MR, (2005) Effects of habitat complexity on Caribbean marine fish assemblages. *Marine Ecology Progress Series*. **292**; 301-310

Gratwicke B, et al., (2006) Fish distribution and ontogenetic habitat preferences in non-estuarine lagoons and adjacent reefs. *Environmental Biology of Fisheries*. **76**; 191-210

Leujak W, & Ormond RFG, (2007) Comparative accuracy and efficiency of six coral community survey methods. *Journal of Experimental Marine Biology and Ecology*. **351**; 168–187

Perkol-Finkel S, et al., (2006) Can artificial reefs mimic natural reef communities? The roles of structural features and age. *Marine Environmental Research*. **61**; 121-135

Sams MA, & Keough MJ, (2007) Predation during early post-settlement varies in importance for shaping marine sessile communities. *Marine Ecology Progress Series*. **348**; 85-101

Unsworth RKF, et al., (2007) Tidal fish connectivity of reef and sea grass habitats in the Indo-Pacific. *Journal of the Marine Biological Association UK*. **87**; 1287-1296