

## APPENDIX 26

### Literature Citation by Author

- Abelson Abelson, A., R. Olinky and S. Gaines. 2005. Coral recruitment to the reefs of Eilat, Red Sea: temporal and spatial variation, and possible effects of anthropogenic disturbances. *Marine Pollution Bulletin* **50**: 576-582.
- Abramovitch-Gottlib, L. D. Katoshevski and R. Vago. 2003. Responses of *Stylophora pistillata* and *Millepora dichotoma* to seawater temperature elevation. *Bulletin of Marine Science* **73**: 745-755.
- Acevedo, R., J. Morelock and R. A. Olivieri. 1989. Modification of coral reef zonation by terrigenous sediment stress. *Palaios* **4**: 92-100.
- Alcolado, P. M., R. Claro, G. Menendez and B. Martinez-Daranas. 1997. General status of Cuban coral reefs. *Proceedings of the 8th International Coral Reef Symposium* **1**: 341-344.
- Alongi, D. M. and A. D. McKinnon. 2005. The cycling and fate of terrestrially-derived sediments and nutrients in the coastal zone of the Great Barrier Reef shelf. *Marine Pollution Bulletin* **51**: 239-252.
- Alutoin, S., J. Boberg, M. Nyström and M. Tedengren. 2001. Effects of the multiple stressors copper and reduced salinity on the metabolism of the hermatypic coral *Porites lutea*. *Marine Environmental Research* **52**: 289-299.
- Andréfouët, S., P. J. Mumby, M. McField, C. Hu and F. E. Muller-Karger. 2002. Revisiting coral reef connectivity. *Coral Reefs* **21**: 43-48.
- Anthony, K. R. N. 1999. A tank system for studying benthic aquatic organisms at predictable levels of turbidity and sedimentation: Case study examining coral growth. *Limnology and Oceanography* **44**: 1415-1422.
- Anthony, K. R. N. 2000. Enhanced particle-feeding capacity of corals on turbid reefs (Great Barrier Reef, Australia). *Coral Reefs* **19**: 59-67.
- Anthony, K. R. N. and K. E. Fabricius. 2000. Shifting roles of heterotrophy and autotrophy in coral energetics under varying turbidity. *Journal of Experimental Marine Biology and Ecology* **252**: 221-253.
- Antonius, A. and J. Afonso-Carillo. 2001. *Pneophyllum conicum* killing reef-corals in Mauritius: A new indo-pacific syndrome? *Bulletin of Marine Science* **69**: 613-618.
- Antonius, A. and B. Riegl. 1998. Coral diseases and *Drupella cornus* invasion in the Red Sea. *Coral Reefs* **17**: 48.
- Aronson, R. B., W. F. Precht, M. A. Toscano and K. H. Koltes. 2002. The 1998 bleaching event

and its aftermath on a coral reef in Belize. *Marine Biology* **141**: 435-447.

Atkinson, S., M. Atkinson and A. Tarrant. 2003. Estrogens from sewage in coastal marine environments. *Environmental Health Perspectives* **111**: 1-7.

Babcock, R. and P. Davies. 1991. Effects of sedimentation on settlement of *Acropora millepora*. *Coral Reefs* **9**: 205-208.

Baker, A. C., C. J. Starger, T. R. McClanahan and P. W. Glynn. 2004. Corals' adaptive response to climate change. *Nature* **430**: 741.

Barile, P. J. 2004. Evidence of anthropogenic nitrogen enrichment of the littoral waters of east central Florida. *Journal of Coastal Research* **20**: 1237-1245.

Bastidas, C. and E. Garcia. 1999. Metal content on the reef coral *Porites astreoides*: and evaluation of river influence and 35 years of chronology. *Marine Pollution Bulletin* **38**: 899-907.

Bastidas, C. and E. M. Garcia. 2004. Sublethal effects of mercury and its distribution in the coral *Porites astreoides*. *Marine Ecology Progress Series* **267**: 133-143.

Bates, N. R. 2002. Seasonal variability of the effect of coral reefs on seawater Carbon Dioxide and air-sea Carbon Dioxide exchange. *Limnology and Oceanography* **47**: 43-52.

Bell, P. 1992. Eutrophication and coral reefs-some examples in the Great Barrier Reef lagoon. *Water Resources* **26**: 553-568.

Bell, P. and I. Elmetri. 1995. Ecological indicators of large-scale eutrophication in the Great Barrier Reef lagoon. *Ambio* **24**: 208-215.

Bellwood, D. R., T. P. Hughes, C. Folke and M. Nystrom. 2004. Confronting the coral reef crisis. *Nature* **429**: 827-833.

Ben-Haim, Y. and E. Rosenberg. 2002. A novel *Vibrio sp.* Pathogen of the coral *Pocillopora damicornis*. *Marine Biology* **141**: 47-55.

Ben-Tzvi, O., Y. Loya and A. Abelson. 2004. Deterioration Index (DI): A suggested criterion for assessing the health of coral communities. *Marine Pollution Bulletin* **48**: 954-960.

Berkelmans, R. and J. K. Oliver. 1999. Large-scale bleaching of corals on the Great Barrier Reef. *Coral Reefs* **18**: 55-60.

Berkelmans, R. and B. L. Willis. 1999. Seasonal and local spatial patterns in the upper thermal limits of corals on the inshore Central Great Barrier Reef. *Coral Reefs* **18**: 219-228.

- Bhagooli, R. and M. Hidaka. 2004. Release of zooxanthellae with intact photosynthetic activity by the coral *Galaxea fascicularis* in response to high temperature stress. *Marine Biology* **145**: 329-337.
- Black, N. A., R. Voellmy and A. M. Szmant. 1995. Heat shock protein induction in *Montastraea faveolata* and *Aiptasia pallida* exposed to elevated temperatures. *The Biological Bulletin* **188**: 234-240.
- Bloetscher, F. and S. Gokgoz. 2001. Comparison of water quality parameters from South Florida wastewater treatment plants versus potential receiving waters. *Florida Water Resources Journal* 37-45.
- Bloetscher, F., L. Meday-Futo, W. R. V. Cott and R. Fergan. 2000. City of Hollywood revises industrial pretreatment program. *Water Engineering & Management* **147**: 17-22.
- Broward County Environmental Quality Control Board. 1981. Annual update: Environmental assessment of the north and south regional wastewater outfalls in the Atlantic Ocean at Broward County, Florida. 21 pp.
- Borger, J. L. 2005. Dark spot syndrome: A scleractinian coral disease or a general stress response? *Coral Reefs* **24**: 139-144.
- Brodie, J. 1994. Management of sewage discharges in the Great Barrier Reef Marine Park. *The Sixth Pacific Congress on Marine science and technology*. 9.
- Broecker, W. S., T. Takahashi, H. J. Simpson and T. H.-. Peng. 1979. Fate of fossil fuel carbon dioxide and the global carbon budget. *Science* **206**: 409-418.
- Brown, B. E. 1987. Worldwide death of corals - natural cyclical events or man-made pollution? *Marine Pollution Bulletin* **18**: 9-13.
- Brown, B. E. 1997. Coral bleaching: Causes and consequences. *Coral Reefs* **16**: S129-S138.
- Brown, B. E., R. P. Dunne, T. P. Scoffin and M. D. A. Le Tissier. 1994. Solar damage in intertidal corals. *Marine Ecology Progress Series* **105**: 219-230.
- Brown, B. E. and M. C. Holley. 1982. Metal levels associated with tin dredging and smelting and their effect upon intertidal reef flats at Ko Phuket, Thailand. *Coral Reefs* **1**: 131-137.
- Bruno, J. F., L. E. Petes, C. D. Harvell and A. Hettinger. 2003. Nutrient enrichment can increase the severity of coral diseases. *Ecology Letters* **6**: 1056-1061.
- Burnett, B. and J. Chanton. 2000. The role of groundwater in the nutrient budget of Florida Bay. 1-40.
- Burnett, W. C., H. Bokuniewicz, M. Huettel, W. S. Moore and M. Taniguchi. 2003. Groundwater and pore water inputs to the coastal zone. *Biogeochemistry* **66**: 3-33.

- Caccia, V. and J. Boyer. 2005. Spatial patterning of water quality in Biscayne Bay, Florida as a function of land use and water management. *Marine Pollution Bulletin* **50**: 1416-1429.
- Carr, G. B., P. A. Davis, R. E. Fergen and F. Bloetscher. 2000. Water quality impacts of long-term effluent disposal strategies in Southeast Florida. *Water Engineering & Management* **147**: 49-53.
- Carricart-Ganivet, J. P. 2004. Sea surface temperature and the growth of the West Atlantic reef-building coral *Montastraea annularis*. *Journal of Experimental Marine Biology and Ecology* **302**: 249-260.
- Carsey, T. P., R. Ferry, K. D. Goodwin, P. B. Ortner, J. Proni, P. K. Swart and J. Z. Zhang. 2005. Brevard County near shore ocean nutrification analysis. Report by: Near shore nutrification of Brevard County science panel 83.
- Cervino, J. M., R. Hayes, T. J. Goreau and G. W. Smith. 2004a. Zooxanthellae regulation in yellow blotch/band and other coral diseases contrasted with temperature related bleaching: *in situ* destruction vs. expulsion. *Symbiosis* **37**: 63-85.
- Cervino, J. M., R. L. Hayes, S. W. Polson, S. C. Polson, T. J. Goreau, R. J. Martinez and G. W. Smith. 2004b. Relationship of *Vibrio* species infection and elevated temperatures to Yellow Blotch/Band disease in Caribbean corals. *Applied and Environmental Microbiology* **70**: 6855-6864.
- Cheevaporn, V. and P. Menasveta. 2003. Water pollution and habitat degradation in the Gulf of Thailand. *Marine Pollution Bulletin* **47**: 43-51.
- Christie, D. R. 1997. Characteristics of Southeast Florida Publicly Owned Treatment Works. Southeastern Fisheries Association, Inc. 16 pp.
- Coles, S. L. 1975. A comparison of effects of elevated temperature versus temperature fluctuations on reef corals at Kahe Point, Oahu. *Pacific Science* **29**: 15-18.
- Coles, S. L. and Y. H. Fadlallah. 1991. Reef coral survival and mortality at low temperatures in the Arabian Gulf: New species-specific lower temperature limits. *Coral Reefs* **9**: 231-237.
- Coles, S. L., P. I. Jokiel and C. R. Lewis. 1976. Thermal tolerance in tropical versus subtropical Pacific reef corals. *Pacific Science* **30**: 159-166.
- Coles, S. L. and P. L. Jokiel. 1977. Effects of temperature on photosynthesis and respiration in hermatypic corals. *Marine Biology* **43**: 209-216.
- Coles, S. L. and P. L. Jokiel. 1978. Synergistic effects of temperature, salinity and light on the hermatypic coral *Montipora verrucosa*. *Marine Biology* **49**: 187-195.

- Connelly, D., J. Readman, A. Knaps and J. Davies. 2001. Contamination of the coastal waters of Bermuda by organotins and the Triazine herbicide Irgarol 1051. *Marine Pollution Bulletin* **42**: 409-414.
- Cooper, S., J. Huvane, P. Vaithiyanathan and C. Richardson. 1999. Calibration of diatoms along a nutrient gradient in Florida Everglades Water Conservation Area-2A, USA. *Journal of Paleolimnology* **22**: 413-437.
- Corbett, D., W. Burnett and J. Chanton. 2001. Submarine groundwater discharge: and unseen yet potentially important coastal phenomenon. SGEB-54 by UF/IFAS 1-10.
- Corbett, D., J. Chanton, W. Burnett, K. Dillon, C. Rutowski and J. Fourqurean. 1999. Patterns of groundwater discharge into Florida Bay. *Limnology and Oceanography* **44**: 1045-1055.
- Cornish, A. S. and E. M. DiDonato. 2004. Resurvey of a reef flat in American Samoa after 85 years reveals devastation to a soft coral (*Alcyonacea*) community. *Marine Pollution Bulletin* **48**: 768-777.
- Cortés, J. and M. J. Risk. 1985. A reef under siltation stress: Cahuita, Costa Rica. *Bulletin of Marine Science* **36**: 339-356.
- Costa Jr., O. S., Z. M. A. N. Leao, M. Nimmo and M. J. Attrill. 2000. Nutrification impacts on coral reefs from northern Bahia, Brazil. *Hydrobiologia* **440**: 307-315.
- Costanzo, S. D., M. J. O'Donohue and W. C. Dennison. 2000. *Gracilaria edulis* (Rhodophyta) as a biological indicator of pulsed nutrients in oligotrophic waters. *Journal of Phycology* **36**: 680-685.
- Dahl, B. and H. Blanck. 1996. Toxic effects of the antifouling agent Irgarol 1051 on periphyton communities in coastal water microcosms. *Marine Pollution Bulletin* **32**: 342-350.
- David, C. P. 2002. Tracing a mine tailings spill using heavy metal concentrations in coral growth bands: Preliminary results and interpretation. *Proceedings of the 9<sup>th</sup> International Coral Reef Symposium, 2000* **2**: 1213-1218.
- Davies, J. M., R. P. Dunne and B. E. Brown. 1997. Coral bleaching and elevated sea-water temperature in Milne Bay Province, Papua New Guinea, 1996. *Marine and Freshwater Research* **48**: 513-516.
- Davies, P. S. 1990. A rapid method for assessing growth rates of corals in relation to water pollution. *Marine Pollution Bulletin* **21**: 346-348.
- Delgado, O. and B. E. Lapointe. 1994. Nutrient-limited productivity of calcareous versus fleshy macroalgae in a eutrophic, carbonate-rich tropical marine environment. *Coral Reefs* **13**: 151-159.
- Denton, G. R. W. and C. Burdon-Jones. 1986. Trace metals in corals from the Great Barrier Reef. *Marine Pollution Bulletin* **5**: 209-213.

DHI Water and Environment, Inc. 2003. Modeling of wave, hydrodynamic and sediment transport processes in connection with the bypassing of sand at Port Everglades entrance. Status Report 89 pp.

Dodge, R. and K. Helmle. 2003. Past stony coral growth (extension) rates on reefs of Broward County, Florida: Possible relationships with Everglades drainage. Joint Conference of the Science and Restoration of the Greater Everglades and Florida Bay Ecosystem, Palm Harbor, FL, April 13-18 1-5.

Dodge, R., A. Knap, S. Wyers, H. Frith, T. Sleeter and S. Smith. 1985. The effect of dispersed oil on the calcification rate of the reef-building coral *Diploria strigosa*. Proceedings of the 5<sup>th</sup> International Coral Reef Congress **6**: 453-457.

Dodge, R. E., R. C. Aller and J. Thomson. 1974. Coral growth related to resuspension of bottom sediments. *Nature* **247**: 574-577.

Dodge, R. E. and T. R. Gilbert. 1984. Chronology of lead pollution in banded coral skeletons. *Marine Biology* **82**: 9-13.

Dodge, R. E., S. C. Wyers, H. R. Frith, A. H. Knap, S. R. Smith and T. D. Sleeter. 1984. The effects of oil and oil dispersants on the skeletal growth of the hermatypic coral *Diploria strigosa*. *Coral Reefs* **3**: 191-198.

Downs, C., R. Owen, L. Buxton and A. Downs. Preliminary examination of cellular toxicological responses of the coral *Madracis miabilis* to acute Irgarol 1051 exposure: application of cellular diagnostics. EnVirtue Biotechnologies Manuscript 1-30.

Downs, C. A., J. E. Fauth, J. C. Halas, P. Dustan, J. Bemiss and C. M. Woodley. 2002. Oxidative stress and seasonal coral bleaching. *Free Radical Biology & Medicine* **33**: 533-543.

Downs, C. A., J. E. Fauth, C. E. Robinson, R. Curry, B. Lazendorf, J. C. Halas, J. Halas and C. M. Woodley. 2005. Cellular diagnostics and coral health: Declining coral health in the Florida Keys. *Marine Pollution Bulletin* **51**: 558-569.

Dustan, P. and J. C. Halas. 1987. Changes in the reef-coral community of Carysfort Reef, Key Largo, Florida: 1974 to 1982. *Coral Reefs* **6**: 91-106.

Edinger, E. N., J. Jompa, G. V. Limmon, W. Widjatmoko and M. J. Risk. 1998. Reef degradation and coral biodiversity in Indonesia: effects of land-based pollution, destructive fishing practices and changes over time. *Marine Pollution Bulletin* **36**: 617-630.

Edmunds, P. J. 2005. Effect of elevated temperature on aerobic respiration of coral recruits. *Marine Biology* **146**: 655-663.

Edwards, A. J., S. Clark, H. Zahir, A. Rajasurtya, A. Naseer and J. Rubens. 2001. Coral bleaching and mortality in artificial and natural reefs in Maldives in 1998, sea surface temperature anomalies and initial recovery. *Marine Pollution Bulletin* **42**: 7-15.

EPA. 2003. Relative Risk Assessment of Management Options for Treated Wastewater in South Florida. United States Environmental Protection Agency 256 pp.

Esslemont, G. 2000. Heavy metals in seawater, marine sediments and corals from the Townsville section, Great Barrier Reef Marine Park, Queensland. *Marine Chemistry* **71**: 215-231.

Esslemont, G., V. J. Harriott and D. M. McConchie. 2000. Variability of trace-metal concentrations within and between colonies of *Pocillopora damicornis*. *Marine Pollution Bulletin* **40**: 637-642.

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

Fabricius, K. and M. Domisse. 2000. Depletion of suspended particulate matter over coastal reef communities dominated by zooxanthellate soft corals. *Marine Ecology Progress Series* **196**: 157-167.

Fabricius, K. E. 2005. Effects of terrestrial runoff on the ecology of corals and coral reefs: Review and synthesis. *Marine Pollution Bulletin* **50**: 125-146.

Fabricius, K. E. and E. Wolanski. 2000. Rapid smothering of coral reef organisms by muddy marine snow. *Estuarine, Coastal and Shelf Science* **50**: 115-120.

Fang, L.-S., S.-P. Huang and K.-L. Lin. 1997. High temperature induces the synthesis of heat-shock proteins and the elevation of intracellular calcium in the coral *Acropora grandis*. *Coral Reefs* **16**: 127-131.

Fauth, J., P. Dustan, E. Ponte, K. Banks, B. Vargas-Angel and C. Downs. 2005. Southeast Florida Coral Biomarker Local Action Study. DEP Report 1-69.

Fautin, D. G. and R. W. Buddemeier. 2004. Adaptive bleaching: A general phenomenon. *Hydrobiologia* **530/531**: 459-467.

Fergen, R. E., P. A. Davis and F. Bloetscher. 2004. Ammonia dynamics on the ocean environment. *Florida Water Resources Journal* **March**: 33-36.

Fergen, R. E., P. Vinci and F. Bloetscher. 1999. Water plant membrane reject water in an ocean outfall. *Florida Water Resources Journal* 24-26.

Ferrier-Pagès, C., J.-P. Gattuso and J. Jaubert. 1999. Effect of small variations in salinity on the rates of photosynthesis and respiration of the zooxanthellate coral *Stylophora pistillata*. *Marine Ecology Progress Series* **181**: 309-314.

Ferrier-Pages, C., V. Schoelzke, J. Jaubert, L. Muscatine and O. Hoegh-Guldberg. 2001. Response of a scleractinian coral, *Stylophora pistillata*, to iron and nitrate enrichment. *Journal of Experimental Marine Biology and Ecology* **259**: 249-261.

- Fichez, R., M. Adjeroud, U. Bozec, L. Breau, Y. Chancerelle, C. Chevillon, P. Douillet, J. Fernandez, P. Frouin, M. Kulbicki, B. Moreton, S. Ouillon, C. Payri, J. Perez, P. Sasal and J. Thebault. 2005. A review of selected indicators of particle, nutrient and metal inputs in coral reef lagoon systems. *Aquatic Living Resources* **18**: 125-147.
- Finkl, C. W. and R. H. Charlier. 2003. Sustainability of subtropical coastal zones in Southeastern Florida: Challenges for urbanized coastal environments threatened by development, pollution, water supply, and storm hazards. *Journal of Coastal Research* **19**: 934-943.
- Finkl, C. W. and S. Krupa. 2003. Environmental impacts of coastal-plain activities on sandy beach systems: Hazards, perception and mitigation. *Journal of Coastal Research* **35**: 132-150.
- Fisher, L. E. 1980. Annual update: Environmental assessment of the Broward County North Regional Outfall. 15 pp.
- Fitt, W. K., B. E. Brown, M. E. Warner and R. P. Dunne. 2001. Coral bleaching: interpretation of thermal tolerance limits and thermal thresholds in tropical corals. *Coral Reefs* **20**: 51-65.
- Flammang, P., M. Warnau, A. Temara, D. J. W. Lane and M. Jangoux. 1997. Heavy metals in *Diadema setosum* (Echinodermata, Echinoidea) from Singapore coral reefs. *Journal of Sea Research* **38**: 35-45.
- Fleury, B. G., J. C. Coll, P. W. Sammarco, E. Tentori and S. Duquesne. 2004. Complementary (secondary) metabolites in an octocoral competing with a scleractinian coral: effects of varying nutrient regimes. *Journal of Experimental Biology and Ecology* **303**: 115-131.
- Fokiel, P. L., E. K. Brown, A. Friedlander, S. K. Rodgers and W. R. Smith. 2004. Hawaii Coral Reef Assessment and Monitoring Program: Spatial patterns and temporal dynamics in reef coral communities. *Pacific Science* **58**: 159-174.
- Frankignoulle, M., C. Cannon and J.-P. Gattuso. 1994. Marine calcification as a source of carbon dioxide: positive feedback of increasing atmospheric CO<sub>2</sub>. *Limnology and Oceanography* **39**: 458-462.
- Furnas, M., A. Mitchell, M. Skuza and J. Brodie. 2005. In the other 90%: phytoplankton responses to enhanced nutrient availability in the Great Barrier Reef lagoon. *Marine Pollution Bulletin* **51**: 253-265.
- Garrison, G., C. Gleann and G. McMurtry. 2003. Measurement of submarine groundwater discharge in Kahana Bay, O'ahu, Hawai'i. *Limnology and Oceanography* **48**: 920-928.
- Garrison, V. H., E. A. Shinn, W. T. Foreman, D. W. Griffin, C. W. Holmes, C. A. Kellogg, M. S. Majewski, L. L. Richardson, K. B. Ritchie and G. W. Smith. 2003. African and Asian dust: From desert soils to coral reefs. *Bioscience* **53**: 469-480.
- Gates, R. D. 1990. Seawater temperature and sublethal coral bleaching in Jamaica. *Coral Reefs* **8**: 193-197.

- Gattuso, J.-P., D. Allemand and M. Frankignoulle. 1999a. Photosynthesis and calcification at cellular, organismal, and community levels in coral reefs: A review on interactions and control by carbonate chemistry. *American Zoologist* **39**: 160-183.
- Gattuso, J.-P. and R. W. Buddemeier. 2000. Ocean biogeochemistry: Calcification and CO<sub>2</sub>. *Nature* **407**: 311-313.
- Gattuso, J.-P., M. Frankignoulle, I. Bourge, S. Romaine and R. W. Buddemeier. 1998. Effect of calcium carbonate saturation of seawater on coral calcification. *Global and Planetary Change* **18**: 37-46.
- Gattuso, J.-P., M. Frankignoulle and S. V. Smith. 1999b. Measurement of community metabolism and significance in the coral reef CO<sub>2</sub> source-sink debate. *Proceedings of the National Academy of Sciences* **96**: 13017-13022.
- Gilbert, A. and H. Guzman. 2001. Bioindication potential of carbonic anhydrase activity in anemones and corals. *Marine Pollution Bulletin* **42**: 742-744.
- Gilmour, J. 1999. Experimental investigation into the effects of suspended sediment on fertilisation, larval survival and settlement in a scleractinian coral. *Marine Biology* **135**: 451-462.
- Gleason, M. G. 1993. Effects of disturbance on coral communities: Bleaching in Moorea, French Polynesia. *Coral Reefs* **12**: 193-201.
- Glynn, P. W., A. M. Szmant, E. F. Corcoran and S. V. Cofer-Shabica. 1989. Condition of coral reef cnidarians from the northern Florida reef tract: Pesticides, heavy metals, and histopathological examination. *Marine Pollution Bulletin* **20**: 568-576.
- Goldberg, E. 1986. TBT: An environmental dilemma. *Environment ENTVAR* **28**: 17-20, 42-44.
- Goreau, T. J., T. McClanahan, R. Hayes and A. Strong. 2000. Conservation of coral reefs after the 1998 global bleaching event. *Conservation Biology* **14**: 5-15.
- Greiner, R., A. Herr, J. Brodie and D. Haynes. 2005. A multi-criteria approach to Great Barrier Reef catchment (Queensland, Australia) diffuse-source pollution problem. *Marine Pollution Bulletin* **51**: 128-137.
- Griffin, D. W., K. A. Donaldson, J. H. Paul and J. B. Rose. 2003. Pathogenic human viruses in coastal waters. *Clinical Microbiology Reviews* **16**: 129-143.
- Griffin, D. W., C. A. Kellogg, V. H. Garrison and E. A. Shinn. 2002. The global transport of dust. *American Scientist* **90**: 228-235.
- Griffin, G. M. 1974. Case history of a typical dredge-fill project in the Northern Florida Keys - Effects on water clarity, sedimentation rates and biota. Harbor Branch Foundation, Inc. *Publication No. 33*: 67 pp.

- Guardo, M. 1999. Hydrologic balance for a subtropical treatment wetland constructed for nutrient removal. *Ecological Engineering* **12**: 315-337.
- Guzman, H. and C. Jimenez. 1992. Contamination of coral reefs by heavy metals along the Caribbean coast of Central America. *Marine Pollution Bulletin* **24**: 554-561.
- Hallock, P., K. Barnes and E. Fisher. 2004. Coral reef risk assessment from satellites to molecules: a multi-scale approach to environmental monitoring and risk assessment of coral reefs. *Environmental Micropaleontology, Microbiology and Meiobenthology* **1**: 11-39.
- Harland, A. D. and B. E. Brown. 1989. Metal tolerances in the scleractinian coral *Porites lutea*. *Marine Pollution Bulletin* **20**: 353-357.
- Harrington, L., K. Fabricius, G. Eaglesham and A. Negri. 2005. Synergistic effects of diuron and sedimentation on photosynthesis and survival of crustose coralline algae. *Marine Pollution Bulletin* **51**: 415-427.
- Harriott, V. J. 1985. Mortality rates of scleractinian corals before and during a mass bleaching event. *Marine Ecology Progress Series* **21**: 81-88.
- Harvell, C. D., K. Kim, J. M. Burkholder, R. R. Colwell, P. R. Epstein, D. J. Grimes, E. E. Hofmann, E. K. Lipp, A. D. M. E. Osterhaus, R. M. Overstreet, J. W. Porter, G. W. Smith and G. R. Vasta. 1999. Emerging marine diseases- climate links and anthropogenic factors. *Science* **285**: 1505-1510.
- Harvell, C. D., C. E. Mitchell, J. R. Ward, S. Altizer, A. P. Dobson, R. S. Ostfeld and M. D. Samuel. 2002. Climate warming and disease risks for terrestrial and marine biota. *Science* **296**: 2158-2162.
- Hodgson, G. 1990. Sediment and the settlement of larvae of the reef coral *Pocillopora damicornis*. *Coral Reefs* **9**: 41-43.
- Hoegh-Guldberg, O. 1999. Climate change, coral bleaching and the future of the world's coral reefs. *Marine and Freshwater Research* **50**: 839-866.
- Hoegh-Guldberg, O., M. Fine, W. Skirving, R. Johnstone, S. Dove and A. Strong. 2005. Coral bleaching following wintry weather. *Limnology and Oceanography* **50**: 265-271.
- Hoegh-Guldberg, O., L. Muscatine, C. Goiran, D. Siggaard and G. Marion. 2004. Nutrient-induced perturbations to  $^{13}\text{C}$  and  $^{15}\text{N}$  in symbiotic dinoflagellates and their coral hosts. *Marine Ecology Progress Series* **280**: 105-114.
- Hoegh-Guldberg, O. and G. J. Smith. 1989. The effect of sudden changes in temperature, light and salinity on the population density and export of zooxanthellae from the reef corals *Stylophora pistillata* Esper and *Seriatopora hystrrix* Dana. *Journal of Experimental Marine Biology and Ecology* **129**: 279-303.

- Holmes, K., E. Edinger, Hariyadi, G. Limmon and M. Risk. 2000. Bioerosion of live massive corals and branching coral rubble on Indonesian coral reefs. *Marine Pollution Bulletin* **40**: 606-617.
- Howard, L. and B. Brown. 1987. Metals in *Pocillopora damicornis* exposed to tin smelter effluent. *Marine Pollution Bulletin* **18**: 451-454.
- Howard, L. S. and B. E. Brown. 1984. Heavy metals and reef corals. *Oceanogr. Mar. Biol. Ann. Rev.* **22**: 195-210.
- Howard, L. S. and B. E. Brown. 1986. Metals in tissues and skeleton of *Fungia fungites* from Phuket, Thailand. *Marine Pollution Bulletin* **17**: 569-570.
- Howe, S. A. and A. T. Marshall. 2002. Temperature effects on calcification rate and skeletal deposition in the temperate coral, *Plesiastrea versipora*. *Journal of Experimental Marine Biology and Ecology* **275**: 63-81.
- Hu, C., K. E. Hackett, M. K. Callahan, S. Andréfoët, J. L. Wheaton, J. W. Porter and F. E. Muller-Karger. 2003. The 2002 ocean color anomaly in the Florida Bight: A cause of local coral reef decline? *Geophysical Research Letters* **30**: 51-1 - 51-4.
- Hu, C., F. Muller-Karger, G. Vargo and M. Neely. 2004. Linkages between coastal runoff and the Florida Keys ecosystem: A study of a dark plume event. *Geophysical Research Letters* **31**: 1-4.
- Huang, H., R. E. Fergen, J. J. Tsai and J. R. Proni. 1998. Evaluation of mixing zone models: CORMIX, PLUMES and OMZA with field data from two Florida ocean outfalls. *Environmental Hydraulics* 249-254.
- Huang, H., J. R. Proni and J. J. Tsai. 1994. Probabilistic approach to initial dilution of ocean outfalls. *Water Environment Research* **66**: 787-793.
- Hubbard, D. K. 1986. Sedimentation as a control of reef development: St. Croix, U.S.V.I. *Coral Reefs* **5**: 117-125.
- Hughes, T., A. M. Szmant, R. Steneck, R. Carpenter and S. Miller. 1999. Algal blooms on coral reefs: What are the causes? *Limnology and Oceanography* **44**: 1583-1586.
- Hughes, T. P. 1994. Catastrophes, phase shifts, and large-scale degradation of a Caribbean coral reef. *Science* **265**: 1547-1551.
- Hughes, T. P., A. H. Baird, D. R. Bellwood, M. Card, S. R. Connolly, C. Folke, R. Grosberg, O. Hoegh-Guldberg, J. B. C. Jackson, J. Kleypas, J. M. Lough, P. Marshall, M. Nyström, S. R. Palumbi, J. M. Pandolfi, B. Rosen and J. Roughgarden. 2003. Climate change, human impacts, and the resilience of coral reefs. *Science* **301**: 929-933.
- Hunte, W. and M. Wittenberg. 1992. Effects of eutrophication and sedimentation on juvenile corals. *Marine Biology* **114**: 625-631.

- Hutchings, P., M. Peyrot-Clausade and A. Osnorno. 2005. Influence of land runoff on rates and agents of bioerosion of coral substrates. *Marine Pollution Bulletin* **51**: 438-447.
- Iglesias-Prieto, R., J. L. Matta, W. A. Robins and R. K. Trench. 1992. Photosynthetic response to elevated temperature in the symbiotic dinoflagellate *Symbiodinium microadriaticum* in culture. *Proceedings of the National Academy of Sciences* **89**: 10302-10302.
- Isidori, M., M. Lavorgna, A. Nardelli, A. Parrella, L. Previtera and M. Rubino. 2005. Ecotoxicity of naproxen and its phototransformation products. *Science of the Total Environment* 1-9.
- Iversen, E. S. and E. F. Corcoran. 1976. Broward county off-shore environmental study. Rosenstiel School of Marine and Atmospheric Science, University of Miami 143 pp.
- Jacques, T. G., N. Marshall and M. E. Q. Pilson. 1983. Experimental ecology of the temperate scleractinian coral *Astrangia danae*. *Marine Biology* **76**: 135-148.
- Jahnke, R., L. Atkinson, J. Barth, F. Chaves, K. Daly, J. Edson, P. Franks, J. O'Donnell and O. Schofield. 2002. Coastal ocean processes and observatories: Advancing coastal research. Report on CoOp Observatory Science Workshop, May 2002, Savannah GA 1-18.
- Jokiel, P. I., C. L. Hunter, S. Taguchi and L. Watarai. 1993. Ecological impact of a fresh-water "reef kill" in Kaneohe Bay, Oahu, Hawaii. *Coral Reefs* **12**: 177-184.
- Jokiel, P. L. and S. L. Coles. 1974. Effects of heated effluent on hermatypic corals at Kahe Point, Oahu. *Pacific Science* **28**: 1-18.
- Jokiel, P. L. and S. L. Coles. 1977. Effects of temperature on the mortality and growth of Hawaiian reef corals. *Marine Biology* **43**: 201-208.
- Jokiel, P. L. and S. L. Coles. 1990. Response of Hawaiian and other Indo-Pacific reef corals to elevated temperature. *Coral Reefs* **8**: 155-162.
- Jones, R. J. and A. P. Kerswell. 2003. Phytotoxicity of photosystem II (PSII) herbicides to coral. *Marine Ecology Progress Series* **261**: 149-159.
- Jones, R. J., J. Muller, D. Haynes and U. Schreiber. 2003. Effects of herbicides diuron and atrazine on corals of the Great Barrier Reef, Australia. *Marine Ecology Progress Series* **251**: 153-167.
- Juston, J. and T. DeBusk. 2005. Phosphorus mass load and outflow concentration relationships in stormwater treatment areas for Everglades restoration. *Ecological Engineering* 1-18.
- Kawahata, H., A. Suzuki and K. Goto. 1997. Coral reef ecosystems as a source of atmospheric Carbon Dioxide: evidence from PCO<sub>2</sub> measurements of surface waters. *Coral Reefs* **16**: 261-266.
- Kim, K., P. D. Kim, A. P. Alker and C. D. Harvell. 2000. Chemical resistance of gorgonian corals against fungal infections. *Marine Biology* **137**: 393-401.

- Kleypas, J. A., R. W. Buddemeier, D. Archer, J.-P. Gattuso, C. Langdon and B. N. Opdyke. 1999. Geochemical consequences of increased atmospheric Carbon Dioxide on coral reefs. *Science* **284**: 118-120.
- Knowlton, N. 2001. The future of coral reefs. *Proceedings of the National Academy of Sciences* **98**: 5419-5425.
- Konstantinou, I. and T. Albanis. 2004. Worldwide occurrence and effects of antifouling paint booster biocides in the aquatic environment: a review. *Environment International* **30**: 235-248.
- Koop, K., D. Booth, A. Broadbent, J. Brodie, D. Bucher, D. Capone, J. Coll, W. Dennison, M. Erdman, P. Harrison, O. Hoegh-Guldberg, P. Hutchings, G. B. Jones, A. W. D. Larkum, J. O'Neil, A. Steven, E. Tentori, S. Ward, J. Williamson and D. Yellowlees. 2001. ENCORE: The effect of nutrient enrichment on coral reefs. Synthesis of results and conclusions. *Marine Pollution Bulletin* **42**: 91-120.
- Kruczynski, W. L. 2002. Water quality concerns in the Florida Keys: Sources, effects, and solutions. In: Porter J.W., Porter K.G. (eds) *The Everglades, Florida Bay, and coral reefs of the Florida Keys: An ecosystem sourcebook* CRC Press, Boca Raton: 827-881.
- Kuntz, N. M., D. I. Kline, S. A. Sandin and F. Rohwer. 2005. Pathologies and mortality rates caused by organic carbon and nutrient stressors in three Caribbean coral species. *Marine Ecology Progress Series* **294**: 173-180.
- Kuta, K. G. and L. L. Richardson. 2002. Ecological aspects of black band disease of corals: relationships between disease incidence and environmental factors. *Coral Reefs* **21**: 393-398.
- Lang, J. C., H. R. Lasker, E. H. Gladfelter, P. Hallock, W. C. Jaap, F. J. Losada and R. G. Muller. 1992. Spatial and temporal variability during periods of "recovery" after mass bleaching on Western Atlantic coral reefs. *American Zoology* **32**: 696-706.
- Lang, J. C., R. I. Wicklund and R. F. Dill. 1988. Depth- and habitat- related bleaching of zooxanthellate reef organisms near Lee Stocking Island, Exuma Cays, Bahamas. *Proceedings of the 6th International Coral Reef Symposium* **3**: 269-274.
- Langdon, C., W. S. Broecker, D. E. Hammond, E. Glenn, K. Fitzsimmons, S. G. Nelson, T.-H. Peng, I. Hajdas and G. Bonani. 2003. Effect of elevated CO<sub>2</sub> on the community metabolism of an experimental coral reef. *Global Biogeochemical Cycles* **17**: 11-1 to 11-14.
- Langdon, C., T. Takahashi, C. Sweeney, D. Chipman, J. Goddard, F. Marubini, H. Aceves, H. Barnett and M. J. Atkinson. 2000. Effect of calcium carbonate saturation state on the calcification rate of an experimental coral reef. *Global Biogeochemical Cycles* **14**: 639-654.

- Lapointe, B., P. Barile, M. Littler and D. Littler. 2005a. Macroalgal blooms on southeast Florida coral reefs II. Cross-shelf discrimination of nitrogen sources indicates widespread assimilation of sewage nitrogen. *Harmful Algae* **4**: 1106-1122.
- Lapointe, B., P. Barile, M. Littler, D. Littler, B. Bedford and C. Gasque. 2005b. Macroalgal blooms on southeast Florida coral reefs I. Nutrient stoichiometry of the invasive green alga *Codium isthmocladum* in the wider Caribbean indicates nutrient enrichment. *Harmful Algae* **4**: 1092-1105.
- Lapointe, B. E. 1997. Nutrient thresholds for bottom-up control of macroalgal blooms on coral reefs in Jamaica and southeast Florida. *Limnology and Oceanography* **42**: 1119-1131.
- Lapointe, B. E. 1999. Simultaneous top-down and bottom-up forces control macroalgal blooms on coral reefs (reply to the comment by Hughes et al.). *Limnology and Oceanography* **44**: 1586-1592.
- Lapointe, B. E. 2004. Anthropogenic nutrient enrichment of seagrass and coral reef communities in the Lower Florida Keys: discrimination of local versus regional nitrogen sources. *Journal of Experimental Marine Biology and Ecology*. **308**: 23-58.
- Lapointe, B. E. 2005. Draft Final Report - Distribution and Ecology of Invasive and Harmful Macroalgal Blooms on Coral Reefs off Southeast Florida. 23.
- Lapointe, B. E., P. J. Barile, C. S. Yentsch, M. M. Littler, D. S. Littler and B. Kakuk. 2004. The relative importance of nutrient enrichment and herbivory on macroalgal communities near Norman's Pond Cay, Exuma Cays, Bahamas: a "natural" enrichment. *Journal of Experimental Biology and Ecology* **298**: 275-301.
- Lapointe, B. E. and M. W. Clark. 1992. Nutrient inputs from the watershed and coastal eutrophication in the Florida Keys. *Estuaries* **15**: 465-476.
- Lapointe, B. E., M. M. Littler and D. S. Littler. 1987. A comparison of nutrient-limited productivity in macroalgae from a Caribbean barrier reef and from a mangrove ecosystem. *Aquatic Botany* **28**: 243-255.
- Lapointe, B. E. and W. R. Matzie. 1996. Effects of stormwater nutrient discharges on eutrophic ation processes in nearshore waters of the Florida Keys. *Estuaries* **19**: 422-435.
- Lapointe, B. E. and J. OConnell. 1989. Nutrient-enhanced growth of *Cladophora prolifera* in Harrington Sound, Bermuda: Eutrophication of a confined, phosphorus-limited marine ecosystem. *Estuarine, Coastal and Shelf Science* **28**: 347-360.
- Larcombe, P., P. V. Ridd, A. Prytz and B. Wilson. 1995. Factors controlling suspended sediment on inner-shelf coral reefs, Townsville, Australia. *Coral Reefs* **14**: 163-171.
- Larcombe, P. and K. J. Woolfe. 1999. Increased sediment supply to the Great Barrier Reef will not increase sediment accumulation at most coral reefs. *Coral Reefs* **18**: 163-169.

- Larned, S. T. 1998. Nitrogen- versus phosphorus-limited growth and sources of nutrients for coral reef macroalgae. *Marine Biology* **132**: 409-421.
- Leão, Z. M. A. N. and R. K. P. Kikuchi. 2005. A relic coral fauna threatened by global changes and human activities, Eastern Brazil. *Marine Pollution Bulletin* **51**: 599-611.
- Leclercq, N., J.-P. Gattuso and J. Jaubert. 2002. Primary production, respiration, and calcification of a coral reef mesocosm under increased Carbon Dioxide partial pressure. *Limnology and Oceanography* **47**: 558-564.
- Lee, T. and D. Mayer. 1977. Low-frequency current variability and spin-off eddies along the shelf off Southeast Florida. *Journal of Marine Research* **35**: 193-220.
- Leichter, J. and S. Miller. 1999. Predicting high-frequency upwelling: Spatial and temporal patterns of temperature anomalies on a Florida coral reef. *Continental Shelf Research* **19**: 911-928.
- Leichter, J., S. Wing, S. Miller and M. Denny. 1996. Pulsed delivery of subthermocline water to Conch Reef (Florida Keys) by internal tidal bores. *Limnology and Oceanography* **41**: 1490-1501.
- Leichter, J. J., H. L. Stewart and S. L. Miller. 2003. Episodic nutrient transport to Florida coral reefs. *Limnology and Oceanography* **48**: 1394-1407.
- Lekien, F., C. Coulliette, A. Mariano, E. Ryan, L. Shay, G. Haller and J. Marsden. 2005. Pollution release tied to invariant manifolds: A case study for the coast of Florida. *Physica* **210**: 1-20.
- Lenes, J. M., B. P. Darrow, C. Cattrall, C. A. Heil, M. Callahan, G. A. Vargo, R. H. Byrne, J. M. Prospero, D. E. Bates, K. A. Fanning and J. J. Walsh. 2001. Iron fertilization and the *Trichodesmium* response on the West Florida shelf. *Limnology and Oceanography* **46**: 1261-1277.
- Lesser, M. P. 1997. Oxidative stress causes coral bleaching during exposure to elevated temperatures. *Coral Reefs* **16**: 187-192.
- Lesser, M. P. and J. H. Farrell. 2004. Exposure to solar radiation increases damage to both host tissues and algal symbionts of corals during thermal stress. *Coral Reefs* **23**: 367-377.
- Lipp, E. K., J. L. Jarrell, D. W. Griffin, J. Lukasik, J. Jacukiewicz and J. B. Rose. 2002. Preliminary evidence for human fecal contamination in corals of the Florida Keys, USA. *Marine Pollution Bulletin* **44**: 666-670.
- Lirman, D., B. Orlando, S. Maciá, D. Manzello, L. Kaufman, P. Biber and T. Jones. 2003. Coral communities of Biscayne Bay, Florida and adjacent offshore areas: Diversity, abundance, distribution, and environmental correlates. *Aquatic Conservation: Marine and Freshwater Ecosystems* **13**: 121-135.

- Lough, J. M. and D. J. Barnes. 1997. Several centuries of variation in skeletal extension, density and calcification in massive *Porites* colonies from the Great Barrier Reef: A proxy for seawater temperature and a background of variability against which to identify unnatural change. *Journal of Experimental Marine Biology and Ecology* **211**: 29-67.
- Loya, Y. 1976. Effects of water turbidity and sedimentation on the community structure of Puerto Rican corals. *Bulletin of Marine Science* **26**: 450-466.
- Loya, Y., H. Lubinevsky, M. Rosenfeld and E. Kramarsky-Winter. 2004. Nutrient enrichment by in situ fish farms at Eilat, Red Sea is detrimental to coral reproduction. *Marine Pollution Bulletin* **49**: 344-353.
- Loya, Y., K. Sakai, K. Yamazato, Y. Nakano, H. Sambali and R. v. Woesick. 2001. Coral bleaching: The winners and the losers. *Ecology Letters* **4**: 122-131.
- Macauley, J. M., J. K. Summers, V. D. Engle and L. C. Harwell. 2002. The ecological condition of South Florida estuaries. *Environmental Monitoring and Assessment* **75**: 253-269.
- Maguire, R. 1987. Environmental aspects of tributyltin. *Applied Organometallic Chemistry* **1**: 475-498.
- Manzello, D. and D. Lirman. 2003. The photosynthetic resilience of *Porites furcata* to salinity disturbance. *Coral Reefs* **22**: 537-540.
- Marshall, A. T. and P. Clode. 2004. Calcification rate and the effect of temperature in a zooxanthellate and an azooxanthellate scleractinian reef coral. *Coral Reefs* **23**: 218-224.
- Marubini, F., H. Barnett, C. Langdon and M. J. Atkinson. 2001. Dependence of calcification on light and carbonate ion concentration for the hermatypic coral *Porites compressa*. *Marine Ecology Progress Series* **220**: 153-162.
- Marubini, F., C. Ferrier-Pages and J.-P. Cuif. 2003. Suppression of skeletal growth in scleractinian corals by decreasing ambient carbonate-ion concentrations: a cross-family comparison. *Proceedings of the Royal Society B* **270**: 179-184.
- Marubini, F. and B. Thake. 1999. Bicarbonate addition promotes coral growth. *Limnology and Oceanography* **44**: 716-720.
- McClanahan, T., R. Steneck, D. Pietri, B. Cokos and S. Jones. 2005. Interaction between inorganic nutrients and organic matter in controlling coral reef communities in Grovers Reef Belize. *Marine Pollution Bulletin* **50**: 566-575.
- McClanahan, T. R., A. H. Baird, P. A. Marshall and M. A. Toscano. 2004. Comparing bleaching and mortality responses of hard corals between southern Kenya and the Great Barrier Reef, Australia. *Marine Pollution Bulletin* **48**: 327-335.
- McCook, L. J. 1999. Macroalgae, nutrients and phase shifts on coral reefs: scientific issues and management consequences for the Great Barrier Reef. *Coral Reefs* **18**: 357-367.

- McNeil, B. I., R. J. Matear and D. J. Barnes. 2004. Coral reef calcification and climate change: The effect of ocean warming. *Geophysical Research Letters* **31**: L22309 (4 pages).
- Meyer, J. L. and E. T. Schultz. 1985. Migrating haemulid fishes as a source of nutrients and organic matter on coral reefs. *Limnology and Oceanography* **30**: 146-156.
- Michel, J. F. 1972. Oceanographic studies pertaining to the proposed ocean outfall at Pompano Beach, Florida. Ross, Saarinen, Bolton and Wilder, Inc. 18 pp.
- Militello, A. and G. A. Zarillo. 2000. Tidal motion in a complex inlet and bay system, Ponce de Leon Inlet, Florida. *Journal of Coastal Research* **16**: 840-852.
- Miller, M. W. 1995. Growth of a temperate coral: Effects of temperature, light, depth, and heterotrophy. *Marine Ecology Progress Series* **122**: 217-225.
- Miller, M. W., M. E. Hay, S. L. Miller, D. Malone, E. E. Sotka and A. M. Szmant. 1999. Effects of nutrients versus herbivores on reef algae: A new method for manipulating nutrients on coral reefs. *Limnology and Oceanography* **44**: 1847-1861.
- Moberg, F., M. Nyström, N. Kautsky, M. Tedengren and P. Jarayabhand. 1997. Effects of reduced salinity on the rates of photosynthesis and respiration in the hermatypic corals *Porites lutea* and *Pocillopora damicornis*. *Marine Ecology Progress Series* **157**: 53-59.
- Mokhtar, M., A. Khalik, B. Wood, C. Hou-Weng, T. Ling and A. Sinniah. 2002. Trace metals in selected corals of Malaysia. *Journal of Biological Sciences* **2**: 805-809.
- Moore, W. 2003. Sources and fluxes of submarine groundwater discharge delineated by radium isotopes. *Biogeochemistry* **66**: 75-93.
- Morgan, M. and T. Snell. 2002. Characterizing stress gene expression in reef-building corals exposed to the mosquitoide dibrom. *Marine Pollution Bulletin* **44**: 1206-1218.
- Moss, A., J. Brodie and M. Furnas. 2005. Water quality guidelines for the Great Barrier Reef World Heritage Area: a basis for development and preliminary values. *Marine Pollution Bulletin* **51**: 76-88.
- Muller-Parker, G., C. Cook and C. D'Elia. 1994a. Elemental composition of the coral *Pocillopora damicornis* exposed to elevated seawater ammonium. *Pacific Science* **48**: 234-246.
- Muller-Parker, G., L. McCloskey, O. Hoegh-Guldberg and P. McAuley. 1994b. Effect of ammonium enrichment on animal and algal biomass of the coral *Pocillopora damicornis*. *Pacific Science* **48**: 273-283.
- Muthiga, N. A. and A. M. Szmant. 1987. The effects of salinity stress on the rates of aerobic respiration and photosynthesis in the hermatypic coral *Siderastrea siderea*. *Biological Bulletin* **173**: 539-551.

- Nakamura, T. and H. Yamasaki. 2005. Requirement of water-flow for sustainable growth of *Pocilloporid* corals during high temperature periods. *Marine Pollution Bulletin* **50**: 1115-1120.
- Negri, A. and A. Heyward. 2001. Inhibition of coral fertilisation and larval metamorphosis by tributyltin and copper. *Marine Environmental Research* **51**: 17-27.
- Negri, A., L. Smith, N. Webster and A. Heyward. 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.
- Negri, A., C. Vollhardt, C. Humphrey, A. Heyward, R. Jones, G. Eaglesham and K. Fabricius. 2005. Effects of the herbicide diuron on the early life history stages of coral. *Marine Pollution Bulletin* **51**: 370-383.
- Neudecker, S. 1981. Growth and survival of scleractinian corals exposed to thermal effluents at Guam. *Proceedings of the 4th International Coral Reef Symposium* **1**: 173-180.
- Nixon, S. W. 1995. Coastal marine eutrophication: A definition, social causes, and future concerns. *Ophelia* **41**: 199-219.
- Nixon, S. W., C. A. Oviatt, J. Frithsen and B. Sullivan. 1986. Nutrients and the productivity of estuarine and coastal marine ecosystems. *J. Limnol. Soc. Afr.* **12**: 43-71.
- Noe, G., D. Childers and R. Jones. 2001. Phosphorus Biogeochemistry and the Impact of Phosphorus Enrichment: Why is the Everglades so Unique? *Ecosystems* **4**: 603-624.
- Nordemar, I., M. Nyström and R. Dizon. 2003. Effects of elevated seawater temperature and nitrate enrichment on the branching coral *Porites cylindrical* in the absence of particulate food. *Marine Biology* **142**: 669-677.
- Nugues, M. M. 2002. Impact of a coral disease outbreak on coral communities in St. Lucia: What and how much has been lost? *Marine Ecology Progress Series* **229**: 61-71.
- Nugues, M. M. and C. M. Roberts. 2003a. Coral mortality and interaction with algae in relation to sedimentation. *Coral Reefs* **22**: 507-516.
- Nugues, M. M. and C. M. Roberts. 2003b. Partial mortality in massive reef corals as an indicator of sediment stress on coral reefs. *Marine Pollution Bulletin* **46**: 314-323.
- Nugues, M. M., G. W. Smith, R. J. v. Hooidonk, M. I. Seabra and R. P. M. Bak. 2004. Algal contact as a trigger for coral disease. *Ecology Letters* **7**: 919-923.
- Nyström, M., C. Folke and F. Moberg. 2000. Coral reef disturbance and resilience in a human-dominated environment. *Tree* **15**: 413-417.

- Nystrom, M., I. Nordemar and M. Tedengren. 2001. Simultaneous and sequential stress from increased temperature and copper on the metabolism of the hermatypic coral *Porites cylindrica*. *Marine Biology* **138**: 1225-1231.
- Olafson, R. W. 1978. Effect of agricultural activity on levels of organochlorine pesticides in hard corals, fish and molluscs from the Great Barrier Reef. *Marine Environmental Research* **1**: 87-107.
- Ongley, E. D. 1996. Control of water pollution from agriculture. *Food and Agriculture Organization of the United Nations* **55**: 68 pp.
- Orpin, A. R., P. V. Ridd, S. Thomas, K. R. N. Anthony, P. Marshall and J. Oliver. 2004. Natural turbidity variability and weather forecasts in risk management of anthropogenic sediment discharge near sensitive environments. *Marine Pollution Bulletin* **49**: 602-612.
- Ostrander, G. K., K. M. Armstrong, E. T. Knobbe, D. Gerace and E. P. Scully. 2000. Rapid transition in the structure of a coral reef community: The effects of coral bleaching and physical disturbance. *Proceedings of the National Academy of Sciences* **97**: 5297-5302.
- Owen, R., A. Knap, M. Toaspern and K. Carbery. 2002. Inhibition of coral photosynthesis by the antifouling herbicide Irgarol 1051. *Marine Pollution Bulletin* **44**: 623-632.
- Owen, R., C. Mitchelmore, C. Woodley, H. Trapido-Rosenthal, T. Galloway, M. Depledge, J. Readman, L. Buxton, S. Sarkis, R. Jones and A. Knap. 2005. A common sense approach for confronting coral reef decline associated with human activities. *Marine Pollution Bulletin* **51**: 481-485.
- Paerl, H. 1997. Coastal eutrophication and harmful algal blooms: Importance of atmospheric deposition and groundwater as "new" nitrogen and other nutrient sources. *Limnology and Oceanography* **42**: 1154-1165.
- Pandolfi, J. M., R. H. Bradbury, E. Sala, T. P. Hughes, K. A. Bjorndal, R. G. Cooke, D. McArdale, L. McClenachan, M. J. H. Newman, G. Paredes, R. R. Warner and J. B. C. Jackson. 2003. Global trajectories of the long-term decline of coral reef ecosystems. *Science* **301**: 955-957.
- Pandolfi, J. M., J. B. C. Jackson, N. Baron, R. H. Bradbury, H. M. Guzman, T. P. Hughes, C. V. Kappel, F. Micheli, J. C. Ogden, H. P. Possingham and E. Sala. 2005. Are U.S. coral reefs on the slippery slope to slime? *Science* **307**: 1725-1726.
- Parnell, B. D. 1979. Environmental impact assessment of North Broward (Pompano) outfall. *Environmental Quality Control Board* 14 pp.
- Paul, J., J. Rose, S. Jiang, X. Zhou, P. Cochran, C. Kellogg, J. Kang, D. Griffin, S. Farrah and J. Lukasik. 1996. Evidence for groundwater and surface marine water contamination by waste disposal wells in the Florida Keys. *Water Resources* **31**: 1448-1454.

- Paytan, A., G. Shellenbarger, J. Street, M. Gonnea, K. Davis, M. Young and W. Moore. 2006. Submarine groundwater discharge: An important source of new inorganic nitrogen to coral reef ecosystems. *Limnology and Oceanography* **51**: 343-348.
- Peters, E. C., N. J. Gassman, J. C. Fireman, R. H. Richmond and E. A. Power. 1997. Eco toxicology of tropical marine ecosystems. *Environmental Toxicology and Chemistry* **16**: 12-40.
- Peters, E. C., P. Meuers, P. Yevich and N. Blake. 1981. Bioaccumulation and histopathological effects of oil on a stony coral. *Marine Pollution Bulletin* **12**: 333-339.
- Peters, H., K. Shay, A. Mariano and T. Cook. 2002. Current variability on a narrow shelf with large ambient vorticity. *Journal of Geophysical Research* **107**: 1-15.
- Philipp, E. and K. Fabricius. 2003. Photophysiological stress in scleractinian corals in response to short-term sedimentation. *Journal of Experimental Marine Biology and Ecology* **287**: 57-78.
- Pitts, P. A. 2001. Hyperpycnal plumes in shelf waters of the Exuma Cays, Bahamas: A trigger for coral bleaching? *Cold Water Diving for Science* 95-100.
- Porter, J. W., W. K. Fitt, H. J. Spero, C. S. Rogers and M. W. White. 1989. Bleaching in reef corals: Physiological and stable isotopic responses. *Proceedings of the National Academy of Sciences* **86**: 9342-9346.
- Porter, J. W., S. K. Lewis and K. G. Porter. 1999. The effect of multiple stressors on the Florida Keys coral reef ecosystem: A landscape hypothesis and a physiological test. *Limnology and Oceanography* **44**: 941-949.
- Potts, D. C. and P. K. Swart. 1984. Water temperature as an indicator of environmental variability on a coral reef. *Limnology and Oceanography* **29**: 504-516.
- Price, R., Z. Top, J. Happell and P. Swart. 2003. Use of tritium and helium to define groundwater flow conditions in Everglades National Park. *Water Resources Research* **39**: 13-1-13-12.
- Proni, J. R. and P. Dammann. 1989. Southeast Florida Outfall Experiments (SEFLOE). Technical Report 58 pp.
- Proni, J. R., H. Huang and W. P. Dammann. 1994. Initial dilution of Southeast Florida ocean outfalls. *Journal of Hydraulic Engineering* **120**: 1409-1425.
- Broward County Department of Planning and Environmental Protection 2001. Broward County, Florida Historical Water Quality Atlas: 1972-1997. Technical Report **TR: 01-03**: 415 pp.
- Raberg, S., M. Nystrom, M. Eros and P. Plantman. 2003. Impact of the herbicides 2, 4-D and diuron on metabolism of the coral *Porites cylindrica*. *Marine Environmental Research* **56**: 503-514.

- Ramos, A. A., Y. Inoue and S. Ohde. 2004. Metal contents in *Porites* corals: Anthropogenic input of river run -off into a coral reef from an urbanized area, Okinawa. Marine Pollution Bulletin **48**: 281-294.
- Rasheed, M., M. I. Badran, C. Richter and M. Huettel. 2002. Effect of reef framework and bottom sediment on nutrient enrichment in a coral reef of the Gulf of Aqaba, Red Sea. Marine Ecology Progress Series **239**: 277-285.
- Rees, J., D. Setiapermana, V. Sharp, J. Weeks and T. Williams. 1999. Evaluation of the impacts of land-based contaminants on the benthic faunas of Jakarta Bay, Indonesia. Oceanologica ACTA **22**: 627-640.
- Reichelt-Brushett, A. and P. Harrsion. 2000. The effect of copper on the settlement success of larvae from the scleractinian coral *Acropora tenuis*. Marine Pollution Bulletin **41**: 385-391.
- Reichelt-Brushett, A. J. and P. L. Harrison. 1999. The effect of copper, zinc and cadmium on fertilization success of gametes from scleractinian reef corals. Marine Pollution Bulletin **38**: 182-187.
- Reichelt-Brushett, A. J. and G. McOrist. 2003. Trace metals in the living and nonliving components of scleractinian corals. Marine Pollution Bulletin **46**: 1573-1582.
- Reichelt - Brushett, A. J. and P. Harrison. 2005a. The effect of selected trace metals on the fertilization success of several scleractinian coral species. Coral Reefs **24**: 524-534.
- Reichelt - Brushett, A. J. and K. Michalek-Wagner. 2005b. Effects of copper on the fertilization success of the soft coral *Lobophytum compactum*. Aquatic Toxicology **74**: 280-284.
- Reynaud, S., N. Leclercq, S. Romaine-Lioud, C. Ferrier-Pagès, J. Jaubert and J.-P. Gattuso. 2003. Interacting effects of CO<sub>2</sub> partial pressure and temperature on photosynthesis and calcification in a scleractinian coral. Global Change Biology **9**: 1660-1668.
- Richardson, L. L. 1998. Coral diseases: What is really known? Tree **13**: 438-443.
- Richardson, L. L., W. M. Goldberg, K. G. Kuta, R. B. Aronson, G. W. Smith, K. B. Ritchie, J. C. Halas, J. S. Feingold and S. L. Miller. 1998. Florida's mystery coral-killer identified. Nature **392**: 557-558.
- Riegl, B. 1995. Effects of sand deposition on scleractinian and alcyonacean corals. Marine Biology **121**: 517-526.
- Riegl, B. and G. M. Branch. 1995. Effects of sediment on the energy budgets of four scleractinian (Bourne 1900) and five alcyonacean (Lamouroux 1816) corals. Journal of Experimental Marine Biology and Ecology **186**: 259-275.
- Riegl, B. and B. Velimirov. 1991. How many damaged corals in Red Sea reef systems? A quantitative survey. Hydrobiologia **216/217**: 249-256.

- Robbart, M. L., P. Peckol, S. P. Scordilis, H. A. Curran and J. Brown-Saracino. 2004. Population recovery and differential heat shock protein expression for the corals *Agaricia agaricites* and *A. tenuifolia* in Belize. *Marine Ecology Progress Series* **283**: 151-160.
- Rogers, C. S. 1990. Responses of coral reefs and reef organisms to sedimentation. *Marine Ecology Progress Series* **62**: 185-202.
- Rose, C. S. and M. Risk. 1985. Increase in *Cliona delitrix* infestation of *Montastrea cavernosa* heads on an organically polluted portion of the Grand Cayman fringing reef. *Marine Ecology* **6**: 345-363.
- Rowan, R. 2004. Thermal adaptation in reef coral symbionts. *Nature* **430**: 742.
- Roy, R. E. 2004. Akumal's reefs: Stony coral communities along the developing Mexican Caribbean coastline. *Revista de Biología Tropical* **52**: 869-881.
- Rudnick, D., D. Childers, J. Boyer and T. Fontaine. 1999. Phosphorus and nitrogen inputs to Florida Bay: The importance of the Everglades watershed. *Estuaries* **22**: 398-416.
- Ryan, J. C. 2001. The Caribbean gets dusted. *Bioscience* **51**: 334-338.
- Sakami, T. 2000. Effects of temperature, irradiance, salinity and inorganic nitrogen concentration on coral zooxanthellae in culture. *Fisheries Science* **66**: 1006-1013.
- Salih, A., O. Hoegh-Guldberg and G. Cox. 1997. Bleaching responses of symbiotic dinoflagellates in corals: The effects of light and elevated temperature on their morphology and physiology. *Proceedings of the Australian Coral Reef Society 75th Anniversary Conference* 199-216.
- Sammarco, P. 1996. Comments on coral reef regeneration, bioerosion, biogeography, and chemical ecology: future directions. *Journal of Experimental Marine Biology and Ecology* **200**: 135-168.
- Schaffranek, R. 1999. Hydrologic studies in support of South Florida ecosystem restoration. Annual Water Resources Planning and Management Conference, June 6-9, 1999 Tempe, AZ 1-9.
- Schleyer, M. H. and L. Celliers. 2003. Coral dominance at the reef-sediment interface in marginal coral communities at Sodwana Bay, South Africa. *Marine and Freshwater Research* **54**: 967-972.
- Schlöder, C. and L. D'Croz. 2004. Responses of massive and branching coral species to the combined effects of water temperature and nitrate enrichment. *Journal of Experimental Marine Biology and Ecology* **313**: 255-268.
- Scott, P. and M. Davies. 1997. Retroactive determination of industrial contaminants in tropical marine communities. *Marine Pollution Bulletin* **34**: 975-980.

- Scott, P. J. B. 1990. Chronic pollution recorded in coral skeletons in Hong Kong. *Journal of Experimental Marine Biology and Ecology* **139**: 51-64.
- Shinn, E., R. Reese and C. Reich. 1994. Fate and pathways of injection-well effluent in the Florida Keys. *USGS Report 94-276* 1-4.
- Shinn, E. A., G. W. Smith, J. M. Prospero, P. Betzer, M. L. Hayes, V. H. Garrison and R. T. Barber. 2000. African dust and the demise of Caribbean coral reefs. *Geophysical Research Letters* **27**: 3029-3032.
- Sigua, G. C., J. S. Steward and W. A. Tweedale. 2000. Water-quality monitoring and biological integrity assessment in the Indian River Lagoon, Florida: Status, Trends, and Loadings (1988-1994). *Environmental Management* **25**: 199-209.
- Simmons, G. 1992. Importance of submarine groundwater discharge and seawater cycling to material flux across sediment/water interfaces in marine environments. *Marine Ecology Progress Series* **84**: 173-184.
- Sloviev, A. 2003. Energetic baroclinic super-tidal oscillations on the southeast Florida shelf. *Geophysical Research Letters* **30**: 1-4.
- Smith, S. V. and R. W. Buddemeier. 1992. Global change and coral reef ecosystems. *Annual Review of Ecology and Systematics* **23**: 89-118.
- Smith, S. V., W. J. Kimmerer, E. A. Laws, R. E. Brock and T. W. Walsh. 1981. Kaneohe Bay sewage diversion experiment: perspectives on ecosystem responses to nutritional perturbation. *Pacific Science* **35**: 279-397.
- Stafford-Smith, M. G. 1993. Sediment-rejection efficiency of 22 species of Australian scleractinian corals. *Marine Biology* **115**: 229-243.
- Steneck, R. S. and J. C. Lang. 2003. Rapid assessment of Mexico's Yucatan reef in 1997 and 1999: Pre- and post- 1998 mass bleaching and Hurricane Mitch (stony corals, algae and fishes). *Atoll Research Bulletin* **496**: 294-317.
- Steven, A., M. Devlin, J. Brodie, M. Baer and M. Lourey (1995). Spatial influence and composition of river plumes in the central Great Barrier Reef. Downstream Effects of Land Use. Rockhampton, Australia, Great Barrier Reef Marine Park Authority: 4.
- Sutherland, K. P., J. W. Porter and C. Torres. 2004. Disease and immunity in Caribbean and Indo-Pacific zooxanthellate corals. *Marine Ecology Progress Series* **266**: 273-302.
- Swart, P. K. and R. Price. 2002. Origin of salinity variations in Florida Bay. *Limnology and Oceanography* **47**: 1234-1241.
- Swart, P. K., A. Saied and K. Lamb. 2005. Temporal and spatial variation in the  $^{15}\text{N}$  and  $^{13}\text{C}$  of coral tissue and zooxanthellae in *Montastraea faveolata* collected from the Florida reef tract. *Limnology and Oceanography* **50**: 1049-1058.

- Swarzenski, P., B. Burnett, C. Reich, H. Dulaiova, T. Peterson and J. Meunier. 2004. Novel geophysical and geochemical techniques used to study submarine groundwater discharge in Biscayne Bay, Florida. USGS Report 2004-3117 1-5.
- Swarzenski, P., J. Martin and J. Cable. 2001. Submarine ground-water discharge in upper Indian River Lagoon, Florida. Water Resources Investigations Report 01-4011, USGS 1-10.
- Szmant, A. M. 2002. Nutrient enrichment on coral reefs: Is it a major cause of coral reef decline? *Estuaries* **25**: 743-766.
- Szmant, A. M. and A. Forrester. 1995. Water column and sediment nitrogen and phosphorus distribution patterns in the Florida Keys, USA. *Coral Reefs* **15**: 21-41.
- Szmant, A. M. and N. J. Gassman. 1990. The effects of prolonged "bleaching" on the tissue biomass and reproduction of the reef coral *Montastrea annularis*. *Coral Reefs* **8**: 217-224.
- Tans, P. P., I. Y. Fung and T. Takahashi. 1990. Observational constraints on the global atmospheric CO<sub>2</sub> budget. *Science* **247**: 1431-1438.
- Tarrant, A., M. Atkinson and S. Atkinson. 2004. Effects of steroidal estrogens on coral growth and reproduction. *Marine Ecology Progress Series* **269**: 121-129.
- Teleshnicki, G. J. and W. M. Goldberg. 1995. Effects of turbidity on the photosynthesis and respiration of two South Florida reef coral species. *Bulletin of Marine Science* **57**: 527-539.
- Thomas, S., P. Ridd. 2005. Field assessment of innovative sensor for monitoring of sediment accumulation at inshore coral reefs. *Marine Pollution Bulletin* **51**: 470-480.
- Thomas, S., P. V. Ridd and G. Day. 2003. Turbidity regimes over fringing coral reefs near a mining site at Lihir Island, Papua New Guinea. *Marine Pollution Bulletin* **46**: 1006-1014.
- Vecsei, A. and W. H. Berger. 2004. Increase of atmospheric CO<sub>2</sub> during deglaciation: constraints on the coral reef hypothesis from patterns of deposition. *Global Biogeochemical Cycles* **18**: GB1035.
- Victor, S. and R. Richmond. 2005. Effect of copper on fertilization success in the reef coral *Acropora surculosa*. *Marine Pollution Bulletin* **50**: 1433-1456.
- Walker, D. I. and R. F. G. Ormond. 1982. Coral death from sewage and phosphate pollution at Aqaba, Red Sea. *Marine Pollution Bulletin* **13**: 21-25.
- Wang, J. D., J. Luo and J. S. Ault. 2003. Flows, salinity, and some implications for larval transport in South Biscayne Bay, Florida. *Bulletin of Marine Science* **72**: 695-723.
- Ward-Paige, C. A., M. Risk and O. Sherwood. 2005. Clionid sponge surveys on the Florida Reef Tract suggest land-based nutrient inputs. *Marine Pollution Bulletin* **In Press**

- Ware, J. R., S. V. Smith and M. L. Reaka-Kudla. 1991. Coral reefs: Sources or sinks of atmospheric CO<sub>2</sub>? *Coral Reefs* **11**: 127-130.
- Warner, M. E., W. K. Fitt and G. W. Schmidt. 1996. The effects of elevated temperature on the photosynthetic efficiency of zooxanthellae *in hospite* from four different species of reef coral: a novel approach. *Plant, Cell and Environment* **19**: 291-299.
- Weaver, K. and G. Payne. 2004. Status of water quality in the Everglades protection area. *Everglades Consolidated Report 2004* 1-19.
- Wielgus, J., N. E. Chadwick-Furman and Z. Dubinsky. 2004. Coral cover and partial mortality on anthropogenically impacted coral reefs at Eilat, northern Red Sea. *Marine Pollution Bulletin* **48**: 248-253.
- Wiens, M., M. S. A. Ammar, A. H. Nawar, C. Koziol, H. M. A. Hassanein, M. Eisinger, I. M. Müller and W. E. G. Müller. 2000. Induction of heat-shock (stress) protein gene expression by selected natural and anthropogenic disturbances in the octocoral *Dendronephthya klunzingeri*. *Journal of Experimental Marine Biology and Ecology* **245**: 265-276.
- Wilkinson, C. R. 1999. Global and local threats to coral reef functioning and existence: review and predictions. *Marine and Freshwater Research* **50**: 867-878.
- Williams, D. E. and M. W. Miller. 2005. Coral disease outbreak: Pattern, prevalence and transmission in *Acropora cervicornis*. *Marine Ecology Progress Series* **301**: 119-128.
- Wilson, W. H., A. L. Dale, J. E. Davy and S. K. Davy. 2005. An enemy within? Observations of virus-like particles in reef corals. *Coral Reefs* **24**: 145-148.
- Winter, A., R. S. Appeldoorn, A. Bruckner, E. H. W. Jr. and C. Goenaga. 1998. Sea surface temperatures and coral reef bleaching off La Parguera, Puerto Rico (northeastern Caribbean Sea). *Coral Reefs* **17**: 377-382.
- Wolanski, E., R. H. Richmond and L. McCook. 2004. A model of the effects of land-based, human activities on the health of coral reefs in the Great Barrier Reef and in the Fouha Bay, Guam, Micronesia. *Journal of Marine Systems* **46**: 133-144.
- Wu, R. 1999. Eutrophication, water borne pathogens and xenobiotic compounds: Environmental risks and challenges. *Marine Pollution Bulletin* **39**: 1-12, 11-22.
- Wyers, S. C., H. Frith, R. Dodge, S. Smith, A. Knap and T. Sleeter. 1986. Behavioural effects of chemically dispersed oil and subsequent recovery in *Diploria strigosa* (DANA). *Marine Ecology* **7**: 23-42.
- Yamada, K., Y. Suzuki, B. E. Casareto and H. Komiyama. 2003. Possibility of high CO<sub>2</sub> fixation rate by coral reef ecosystems. In: Gale, J. and Y. Kaya (eds): *Proceedings of the 6th International Conference on Greenhouse Gas Control Technologies* **Pergamon**: 817-822.

Yap, H. T. 2004. Differential survival of coral transplants on various substrates under elevated water temperatures. *Marine Pollution Bulletin* **49**: 306-312.

Yentsch, C. S., C. M. Yentsch, J. J. Cullen, B. Lapointe, D. A. Phinney and S. W. Yentsch. 2002. Sunlight and water transparency: Cornerstones in coral research. *Journal of Experimental Marine Biology and Ecology* **268**: 171-183.