

References

- Al-Moghrabi, SM (2001). Unusual black band disease outbreak in the northern tip of the Gulf of Aquaba (Jordon). *Coral Reefs*, 19: 330-331.
- Antonius, A (1972). Hurricane Laura, witnessed in British Honduras. *Atoll Research Bulletin*, 162: 11-12.
- Australian Bureau of Meteorology (2002). Tropical cyclone database for Australia. Published on-line at <http://www.bom.gov.au>.
- Australian Bureau of Meteorology (1977). Report on cyclone Tracy, Dec, 1974, Australian Government Publication Service, PO Box 84, Canberra, ACT 2600, 82 pp.
- Ayling, AM (1991). Unpublished survey of cyclone Joy.
- Ayling, AM and Ayling, AL (1997). Normal Reef Great Adventures Pontoon: 1997 biological survey and summary of cyclone damage. Unpublished report to the Great Barrier Reef Marine Park Authority.
- Bak, RPM and Criens, SR (1981). Survival after fragmentation of the colonies of *Madracis mirabilis*, *Acropora palmata* and *A. cervicornis* (Scleractinia) and the subsequent impact of a coral disease. Proceedings of the 4th International Coral Reef Symposium, 2: 221-228.
- Baines, GBK, Beveridge, PJ and Maragos, JE (1974). Storms and island building at Funafuti atoll, Ellice Islands. *Proceedings of the 2nd International Coral Reef Symposium*, 2: 485-496.
- Baker, WL (1992). The landscape ecology of large disturbances in the design and management of nature reserves. *Landscape Ecology*, 7(3): 181-194.
- Ball, MM., Shinn, EA and Stockman, KW (1967). The geologic effects of Hurricane Donna in South Florida. *Journal of Geology*, 75: 83-597.
- Bannister, AJ and Smith, KJ (1993). The South Pacific and southeast Indian Ocean tropical cyclone season 1990-91. *Australian Meteorological Magazine*, 42: 175-182.
- Berkelmans, R (2002). Time-integrated thermal bleaching thresholds of reefs and their variation on the Great Barrier Reef. *Marine Ecology Progress Series*. 229: 73-82.
- Blair, SM, McIntosh, TL and Mostkoff, BJ (1994). Impacts of Hurricane Andrew on the offshore reef systems of central and northern Dade County, Florida. *Bulletin of Marine Science*, 54(3): 61-1973.

References

- Blumenstock, DI (ed) (1961). A report on typhoon effects upon Jaluit. *Atoll Research Bulletin*, 75: 1-105.
- Blumenstock, DI (1958). Typhoon effects at Jaluit Atoll in the Marshall Islands. *Nature*, 182: 1267-1269.
- Blumenstock, DI, Fosberg, FR and Johnson, CG (1961). The re-survey of typhoon effects on Jaluit atoll in the Marshall Islands. *Nature*, 189: 618-620.
- Boose, ER, Foster, DR, and Fluet, M (1994). Hurricane impacts to tropical and temperate forest landscapes. *Ecological Monographs*, 64(4): 369-400.
- Brown, BE (1997). Disturbances to reefs in recent times. In: C Birkeland (ed), Life and death of coral reefs. Chapman and Hall, New York, pp 354-379.
- Bythell, JC, Bythell, M and Gladfelter, EH (1993). Initial results of a long-term coral reef monitoring program: Impact of Hurricane Hugo at Buck Island Reef National Monument, St. Croix, US Virgin Islands. *Journal of Experimental Marine Biology and Ecology*, 172: 171-183.
- Bythell, JC, Hillis-Starr, ZM and Rogers, CS (2000). Local variability but landscape stability in coral reef communities following repeated hurricane impacts. *Marine Ecology Progress Series*, 204: 93-100.
- Callaghan, J (1997). The South Pacific and southeast Indian Ocean tropical cyclone season 1995-96. *Australian Meteorological Magazine*, 46: 325-339.
- Callaghan, J and Smith, RK (1998). The relationship between maximum surface wind speeds and central pressure in tropical cyclones. *Australian Meteorological Magazine*, 47: 191-202.
- Chappell, J (1980). Coral morphology, diversity and reef growth. *Nature*, 286: 249-252.
- Cheal, AJ, Coleman, G, Delean, S, Miller, L, Osborne, K and Sweatman, H (2002). Responses of coral and fish assemblages to a severe but short-lived tropical cyclone on the Great Barrier Reef, Australia. *Coral Reefs*, 21: 131-142.
- Connell, JH (1997). Disturbance and recovery of coral assemblages. *Coral Reefs*, 16, Suppl: S101-S113.
- Connell, JH (1978). Diversity in tropical rain forests and coral reefs. *Science*, 199(24): 1302-310.
- Connell, JH, Hughes, TP and Wallace, CC (1997). A 30-year study of coral abundance, recruitment and disturbance at several scales in space and time. *Ecological Monographs*, 67(4): 461-488.

- Connell, JH and Keough, MJ (1985). Disturbance and Patch Dynamics of Subtidal Marine Animals on Hard Substrata. In: Pickett, STA and White, PS (ed), The Ecology of Natural Disturbance and Patch Dynamics, pp. 125-151.
- Cooper, MJ (1966). Destruction of marine flora and fauna in Fiji caused by the Hurricane of February 1965. *Pacific Science*, 20: 137-141.
- Craik, W (1992). The Great Barrier Reef Marine Park: its establishment, development and current status. *Marine Pollution Bulletin*, 25(5-8): 121-133.
- D'Addio, AC and Rosholt, M (2002). Left-censoring in duration data: theory and applications. Working Paper No. 2002-5, Department of Economics, University of Aarhus, Denmark (ISSN 13396-2426), 36 pp.
- Davidson, JT and Dargie, S (1996). Improving our knowledge of the cyclone hazard in Queensland. In: *Conference on Natural Disaster Reduction 1996*. Gold Coast, Australia, 29 September - 2 October 1996. The Institute of Engineers, Australia Conference Preprints pp 247-352 (National Conference Publication no. 96/10).
- De'ath, G and Fabricus, K (2000). Classification and regression trees: a powerful yet simple technique for ecological data analysis. *Ecology*, 81(11): 3178-3192.
- Denny, MW (1988). Biology and the mechanisms of the waveswept environment. Princeton University Press, Princeton, NJ, 329 pp.
- Denny, MW, Daniel, TL and Koehl, MAR (1985). Mechanical limits to size in wave-swept organisms. *Ecological Monographs*, 55(1): 69-102.
- DeVantier, LM, Turak, E, Done, TJ and Davidson, J (1997). The effects of cyclone Sadie on coral communities of nearshore reefs in the central Great Barrier Reef. In: Cyclone Sadie Flood Plumes in the Great Barrier Reef Lagoon: Composition and Consequences. *Great Barrier Reef Marine Park Authority Workshop Series*, 22: 65-85.
- Dineson, ZD (1983). Patterns in the distribution of soft corals across the central Great Barrier Reef. *Coral Reefs*, 1: 229-236.
- Dollar, SJ and Tribble, GW (1993). Recurrent storm disturbance and recovery: a long-term study of coral communities in Hawaii. *Coral Reefs*, 12: 223-238.
- Done, TJ (1999). Coral community adaptability to environmental change at the scales of regions, reefs, and reef zones. *American Zoologist*, 39: 66-79.
- Done, TJ (1997). Decadal changes in reef-building communities: implications for reef growth and monitoring programs. *Proceedings of the 8th International Coral Reef Symposium*, 1:411-416.

- Done, TJ (1992a). Phase shifts in coral reef communities and their ecological significance. *Hydrobiologia*, 247: 121-132.
- Done, TJ (1992b). Effects of tropical cyclone waves on ecological and geomorphological structures on the Great Barrier Reef. *Continental Shelf Research*, 12(7/8): 859-872.
- Done, TJ (1983). Coral zonation: its nature and significance. In: Barnes, DJ (ed), Perspectives on Coral Reefs. Australian Institute of Marine Science, Brian Clouston, pp. 107-153.
- Done, TJ, Ayling, AM and Van Woesik, R (1991). Broadscale survey of impacts of Cyclone Ivor on coral reefs. Unpublished report to the Great Barrier Reef Marine Park Authority, Townsville, Australia.
- Done, TJ, Moran, PJ and DeVantier, L (1986). Cyclone Winifred - Observations on some ecological and geomorphological effects. In: Workshop on the Offshore Effects of Cyclone Winifred. *Great Barrier Reef Marine Park Authority Workshop Series*, 7: 50-51.
- Done, TJ, Ogden, JC, Wiebe, WJ, and Rosen, BR (1996). Biodiversity and ecosystem function of coral reefs. In: Mooney, HA, Cushman, JH, Medina, E, Sala, OE and Schulze, FD (ed), Functional Roles of Biodiversity, Global Perspectives. John Wiley and Sons Ltd, New York, pp. 393-429.
- Done, TJ and Potts, DC (1992). Influences of habitat and natural disturbances on contributions of massive Porites corals to reef communities. *Marine Biology*, 114: 479-493.
- Dong, K (1988). El Nino and tropical cyclone frequency in the Australian region and the Northwest Pacific. *Australian Meteorological Magazine*, 36: 219-225.
- Dunnavan, GM and Diercks, JW (1980). An analysis of super typhoon Tip (October 1979). *Monthly Weather Review*, 108: 1915-2023.
- Dvorak, VF (1975). Tropical cyclone intensity analysis and forecasting from satellite imagery. *Monthly Weather Review*, 103: 420-430.
- Edmunds, PJ and Witman, JD (1991). Effect of Hurricane Hugo on the primary framework of a reef along the south shore of St. John, US Virgin Islands. *Marine Ecology Progress Series*, 78(16 December): 201-204.
- Ekebom, J, Laihonen, P and Suominen, T (2003). A GIS-based step-wise procedure for assessing physical exposure in fragmented archipelagos. *Estuarine, Coastal, and Shelf Science*, in press.
- Emanuel, DA (1987). The dependence of hurricane intensity on climate. *Nature*, 326 (2 April): 483-485.

References

- Emery, KO (1962). Marine Geology of Guam. *US Geological Survey, Professional Paper*, 403(B): 1-76.
- Fadlallah, YH, Allen, KW and Estudillo, RA (1995). Mortality of shallow reef corals in the western Arabian Gulf following aerial exposure in winter. *Coral Reefs*, 14: 99-107.
- Feldesman, MR (2002). Classification trees as an alternative to linear discriminant analysis. *American Journal of Physical Anthropology*, 119: 257-275.
- Fenner, DP (1991). Effects of Hurricane Gilbert on coral reefs, fishes, and sponges at Cozumel, Mexico. *Bulletin of Marine Science*, 48(3): 719-730.
- Flood, PG and Jell, JS (1977). The effect of Cyclone "David" (January 1976) on the sediment distribution patterns on Heron Reef, Great Barrier Reef, Australia. *Proceeding of the 3rd International Coral Reef Symposium*, 1:119-125.
- Fotheringham, AS and Rogerson, PA (1993). GIS and spatial analytical problems. *International Journal of Geographical Information Systems*, 7(1): 3-19.
- Glynn, PW, Almodovar, LR and Gonzalez, JG (1964). Effects of hurricane Edith on marine life in La Parguera, Puerto Rico. *Caribbean Journal of Science*, 4: 335-345.
- Glynn, PW, Lirman, D, Baker, AC and Morales, GEL (1998). First documented hurricane strikes on eastern Pacific coral reefs reveal only slight damage. *Coral Reefs*, 17: 368.
- Goodchild, MF (2000). Foreword. In: D. Wright and D. Bartlett (ed), Marine and Coastal Geographical Information Systems. London, Taylor and Francis, pp. xiii–xvi.
- Goodchild, MF (1992). Geographical data modeling. *Computer*, 18(4): 401-408.
- Goodchild, MF and Longley, PA (1999). The future of GIS and spatial analysis. In: P.A. Longley, M.F. Goodchild, D.J. Maguire, and D.W. Rhind (ed), Geographical Information Systems: Principles, Techniques, Applications and Management. New York, Wiley, pp. 567–580.
- Goreau, TF (1959). The ecology of Jamaican coral reefs I. Species composition and zonation. *Ecology*, 40: 67-90.
- Gourlay, MR (1994). Wave transformation on a coral reef. *Coastal Engineering*, 23: 17-42.
- Graus, RR, Macintyre, IG and Herchenroder, BE (1984). Computer Simulation of the Reef Zonation at Discovery Bay, Jamaica: Hurricane Disruption and Long-Term Physical Oceanographic Controls. *Coral Reefs*, 3: 59-68.

References

- Great Barrier Reef Marine Park Authority (2003). What is the representative areas program? Published on-line at:
http://www.gbrmpa.gov.au/corp_site/key_issues/conservation/rep_areas/documents/tech_sheet_05.pdf
- Grigg, RW (1995). Coral reefs in an urban embayment in Hawaii: a complex case history controlled by natural and anthropogenic stress. *Coral Reefs*, 14(4): 253-266.
- Grigg, RW and Dollar, SJ (1990). Natural and anthropogenic disturbance on coral reefs. In: Dubinsky, Z (ed), Ecosystems of the World 25. Coral Reefs. Elsevier, New York, 439-452.
- Guinotte, JM, Buddemeier, RW and Kleypas, JA (2003). Future coral reef habitat marginality: temporal and spatial effects of climate change. *Coral Reefs*, in press.
- Gunderson, LH, Holling, CS, Pritchard, L Jr. and Peterson, GD (2002). Resilience of large-scale resource systems. In: Gunderson, LH and Pritchard, L Jr. (ed), Resilience and the behaviour of large-scale systems. Island Press, London, pp. 3-20.
- Hallock, P (1997). Reefs and reef limestones in earth history. In: C Birkeland (ed), Life and death of coral reefs. Chapman and Hall, New York, pp 13-42.
- Hammer, WM and Wolanski, E (1988). Hydrodynamic forcing functions and biological processes on coral reefs: a status review. *Proceedings of the 6th International Coral Reef Symposium*, 1: 103-113.
- Hanstrum, BN, Reader, G and Bate, PW (1999). The South Pacific and southeast Indian Ocean tropical cyclone season 1996-97. *Australian Meteorological Magazine*, 48: 197-210.
- Hardy, TA, Mason, LB and McConochie, JD (2001). A wave model for the Great Barrier Reef. *Ocean Engineering*, 28(1): 45-70.
- Harmelin-Vivien, ML (1994). The effects of storms and cyclones on coral reefs: a review. *Journal of Coastal Research*, Special Issue 12: 211-231.
- Harmelin-Vivien, ML and Laboute, P (1986). Catastrophic impact of hurricanes on Atoll outer reef slopes in the Tuamota (French Polynesia). *Coral Reefs*, 5: 55-62.
- Harriott, VJ and Fisk, DA (1986). The effects of cyclone Winifred on corals at Green Island Reef. In: Dutton, IM (ed); The Offshore Effects of Cyclone Winifred. *GBRMPA Wokshop Series 7*: 52-58.

- Hartcher, MG (2001). COTSBASE 1.0 (crown-of-thorns starfish digital database). Unpublished report to the Cooperative Research Centre for the Ecologically Sustainable Development of the Great Barrier Reef, Townsville.
- Hastie, T, Tibshirani, R and Friedman, J (2001). The elements of statistical learning: data mining, inference, and prediction. Springer Series in Statistics, New York, 533 pp.
- Hatcher, BG (1984). A maritime accident provides evidence for alternate stable states in benthic communities on coral reefs. *Coral Reefs*, 3: 199-204.
- Hedley, C (1925). The natural destruction of a coral reef. *Report of the Great Barrier Reef Committee*, 1: 35-40.
- Highsmith, RC, Riggs, AC and Dantonio, CM (1980). Survival of hurricane-generated coral fragments and a disturbance model of reef calcification / growth rates. *Oecologia*, 46: 322-329.
- Hillis, ZM and Bythell, JC (1998). "Keep up or give up": hurricanes promote coral survival by interrupting burial from sediment accumulation. *Coral Reefs*, 17: 262.
- Hobson, E, Chess, J and Howard, D (1995). Anomalous damage inflicted by Hurricane Iniki on a Hawaiian coral reef. *Bulletin of Marine Science*, 57(2): 495-500.
- Hoegh-Guldberg O (1999). Climate change, coral bleaching and the future of the world's coral reefs [Review]. *Marine and Freshwater Research*, 50(8): 839-866.
- Holland, GJ (1984a). On the climatology and structure of tropical cyclones in the Australian / southwest Pacific region: I. Data and tropical storms. *Australian Meteorological Magazine*, 32: 1-15.
- Holland, GJ (1984b). On the climatology and structure of tropical cyclones in the Australian / southwest Pacific region: II. Hurricanes. *Australian Meteorological Magazine*, 32: 17-31.
- Holland, GJ (1984c). On the climatology and structure of tropical cyclones in the Australian / southwest Pacific region: III. Major hurricanes. *Australian Meteorological Magazine*, 32: 33-46.
- Holland, GJ (1981). On the quality of the Australian tropical cyclone database. *Australian Meteorological Magazine*, 29: 169-181.
- Holland, GJ (1980). An analytic model of the wind and pressure profiles in hurricanes. *Monthly Weather Review*, 108 (August): 1212-1218.

- Holland, GJ and Lander, M (1993). The meandering nature of tropical cyclone tracks. *Journal of the Atmospheric Sciences*, 50 (1 May): 1254-1266.
- Hopley, D (1983). Morphological classifications of shelf reefs: a critique with special reference to the Great Barrier Reef. In: Barnes, DJ (ed), Perspectives on Coral Reefs. Australian Institute of Marine Science, Brian Clouston, pp.180-199.
- Hopley, D (1982). The geomorphology of the Great Barrier Reef: Quaternary development of coral reefs. John Wiley, New York, 453 pp.
- Hopley, D (1974a). Coastal changes produced by Tropical Cyclone Althea in Queensland, December 1971. *The Australian Geographer*, XII, 5: 445-56.
- Hopley, D (1974b). Storm Surge. *The Australian Geographer*, XII, 5: 462-468.
- Hopley, D (1972). Coastal changes produced by cyclones "Althea" and "Emily". In: Cyclone "Althea" Part II – Storm Surges and Coastal Effects. James Cook University, Townsville, 4.1-4.23.
- Hopley, D and Harvey, N (1974). Investigation of the effects of cyclone Pam on sea level, February 5th-7th, 1974. James Cook University of North Queensland, Department of Geography.
- Hopley, D and Isdale, P (1977). Coral micro-atolls, tropical cyclones and reef flat morphology: a north Queensland example. *Search*, 8(3): 79-81.
- Hopley, D, Parnell, KE and Isdale, PJ (1989). The Great Barrier Reef Marine Park: dimensions and regional patterns. *Australian Geographical Studies*, 27: 47-66.
- Hubbard, DK (1997). Reefs as dynamic systems. In: C Birkeland (ed), Life and death of coral reefs. Chapman and Hall, New York, pp 43-67.
- Hubbard, DK, Parsons, KM, Bythell, JC and Walker, ND (1991). The effects of hurricane Hugo on the reefs and associated environments of St. Croix, US Virgin Islands. A preliminary assessment. *Journal of Coastal Research*, 8: 33-48.
- Hubbert, GD, Holland, GJ, Leslie, LM and Manton, MJ (1991). A real-time system for forecasting tropical cyclone storm surges. *Weather and Forecasting*, 6: 86-97.
- Hubbert, GD, Leslie, LM and Manton, MJ (1990). A storm surge model for the Australian region. *Quarterly Journal of the Royal Meteorological Society*, 116: 1005-1020.
- Hughes, TP (1994). Catastrophes, phase shifts, and large-scale degradation of a Caribbean coral reef. *Science*, 265 (9 September): 1547-1551.

References

- Hughes, TP (1989). Community structure and diversity of coral reefs: the role of history. *Ecology*, 70(1): 121-132.
- Hughes, TP, Baird, AH, Bellwood, DR, Card, M et al (2003). Climate change, human impacts, and the resilience of coral reefs. *Science*, 301(5635): 929-933.
- Hughes, TP and Connell, JH (1999). Multiple stressors on coral reefs: A long-term perspective. *Limnology and Oceanography*, 44 (3 pt 2): 932-940.
- Hutchings, PA (1986). Biological destruction of coral reefs. *Coral Reefs*, 4: 239-252.
- Jackson, JBC (1991). Adaptation and diversity of reef corals. *Bioscience*, 41(7): 475-481.
- Jackson, JBC, Kirby, MX, Berger, WH, Bjoerndal, KA et al (2001). Historical overfishing and the recent collapse of coastal ecosystems. *Science*, 293(5530): 629-639.
- Jelesnianski, CP (1993). Sea State (Wind Waves). In: Holland, GJ (ed), Global Guide to Tropical Cyclone Forecasting WMO/TD-560, World Meteorological Organization.
- Johnson, NL and Kemp, AW (1992). Univariate discrete distributions, New York, John Wiley and Sons, 565 pp.
- Kemp, KK (1993). Spatial data: sources and issues. In: Goodchild, MF, Parks, BO, and Stayaert, LT (ed), Environmental Modeling with GIS, New York, Oxford University Press, pp. 363-371.
- King, BA, McAllister F, Wolanski EJ, Done TJ and Spagnol S (2001). River plume dynamics in the central Great Barrier Reef. In: Wolanski EJ (ed), Oceanographic processes of coral reefs: physical and biological links in the Great Barrier Reef. CRC Press, pp 145-160.
- Kjerfve, B and Dinnel, SP (1983). Hindcast hurricane conditions on the Belize Barrier Reef. *Coral Reefs*, 1: 203-207.
- Kjerfve, B, Magill, KE, Porter, JW and Woodley, JD (1986). Hindcasting of hurricane characteristics and observed storm damage on a fringing reef, Jamacia, West Indies. *Journal of Marine Research*, 44: 119-148.
- Kleypas, JA, Buddemeier, RW and Gattuso, J (2001). The future of coral reefs in an age of global change. *International Journal of Earth Sciences*, 90: 426-437.
- Knowlton, N, Lang, JC, and Keller, BD (1990). Case study of natural population collapse: post hurricane predation on Jamaican staghorn corals. *Smithsonian Contributions to Marine Science*, 31: 25 pp.

- Knowlton, N, Lang, JC, Rooney, MC and Clifford, P (1981). Evidence for delayed mortality in hurricane-damaged Jamacain staghorn corals. *Nature*, 294 (19 November): 251-252.
- Kobluk, DR and Lysenko, MA (1992). Storm features on a southern Caribbean fringing coral reef. *Palaios*, 7: 213-221.
- Kobluk, DR and Lysenko, MA (1987). Impact of two sequential pacific hurricanes on sub-rubble cryptic corals: the possible role of cryptic organisms in maintenance of coral reef communities. *Journal of Paleontology*, 61 (4, July): 663-675.
- Koehl, MAR (1984). How do benthic organisms withstand moving water? *American Zoologist*, 24: 57-70.
- Lawler, JJ and Edwards, TC (2003). Landscape patterns as habitat predictors: building and testing models for cavity-nesting birds in the Uinta Mountains of Utah, USA. *Landscape Ecology*, 17(3): 233-245.
- Lewis, A (2001). Great Barrier Reef Depth and Elevation Model: GBRDEM. CRC Reef Research Centre Technical Report No. 33 Townsville; CRC Reef Research Centre, 58 pp.
- Lewis, RJ (2000). An introduction to classification and regression tree (CART). San Francisco: Society of Emergency Medicine in San Francisco.
- Lirman, D and Fong, P (1997). Susceptibility of coral communities to storm intensity, duration, and frequency. *Proceedings of the 8th International Coral Reef Symposium*, 1: 561-566.
- Lirman, D and Fong, P (1995). The effects of Hurricane Andrew and Tropical Storm Gordon on Florida reefs. *Coral Reefs*, 14: 172.
- Littler, MM and Littler, DS (1989). Disturbances due to Cyclone Gavin parallel those caused by a ship grounding. *Coral Reefs*, 18: 146.
- Longley, PA, Goodchild, MF, Maguire, DJ and Rhind, DW (eds) (1999). Geographical information systems: principles, techniques, management and applications. New York, Wiley, 1296 pp.
- Loubersac, L, Dahl, AL, Collotte, P, Lemaire, O, Dozouville, L and Grotte, A (1988). Impact assessment of Cyclone Sally on the almost atoll of Aitutaki (Cook Islands) by remote sensing. *Proceedings of the 6th International Coral Reef Symposium*, 2: 455- 462.
- Lough, JM (1994). Climate variation and El Nino - Southern Oscillation events on the Great Barrier Reef: 1958-1987. *Coral Reefs*, 13: 181-195.

- Lourens, RS (1981). Tropical cyclones in the Australian Region July 1909 to June 1980. Bureau of Meteorology, Melbourne, Australia, 94 pp.
- Lugo-Fernandez, A, Hernandez-Avila, ML and Roberts, HH (1994). Wave-energy distribution and hurricane effects on Margarita Reef, southwestern Puerto Rico. *Coral Reefs*, 13: 21-32.
- Lugo-Fernandez, A, Roberts, HH and Wiseman, WJ (1998). Tide effects on wave attenuation and wave set-up on a Caribbean coral reef. *Estuarine, Coastal, and Shelf Science*, 47(4): 385-393.
- Mah, AJ and Stearn, CW (1986). The effect of Hurricane Allen on the Bellairs fringing reef, Barbados. *Coral Reefs*, 4: 169-176.
- Malcolm, H, Luyten, M, Buck, R and Oster, S (1996). Quick assessment of fringing reef damage at the Whitsunday Islands, caused by Cyclone 'Celeste'. Unpublished report to the Queensland Department of Primary Industries.
- Maragos, JE, Baines, GBK and Beveridge, PJ (1973). Tropical cyclone Bebe creates a new land formation on Funafuti Atoll. *Science*, 181: 1161-1163.
- Marshall, PA (2000). Skeletal damage in reef corals: relating resistance to colony morphology. *Marine Ecology Progress Series*, 200: 177-189.
- Massel SR (1996). Ocean surface waves: Their Physics and Prediction. World Scientific Publishers, New York, 491 pp.
- Massel, SR and Done, TJ (1993). Effects of cyclone waves on massive coral assemblages on the Great Barrier Reef: meteorology, hydrodynamics, and demography. *Coral Reefs*, 12: 153-166.
- Maxwell, WGH (1968). Atlas of the Great Barrier Reef. Elsevier Publishing Company, Amsterdam, 258 pp.
- McBride, JL and Keenan, TD (1982). Climatology of tropical cyclone genesis in the Australian region. *Journal of Climatology*, 2: 13-33.
- McClanahan, TR, Polunin, NVC and Done, TJ (2002). Resilience of coral reefs. In: Gunderson, LH and Pritchard, L Jr. (ed), Resilience and the behavior of large-scale systems. Island Press, London, pp. 3-20.
- McConochie, JD, Mason, LB, and Hardy, TA (1999). A Coral Sea Cyclone Wind Model Intended for Wave Modelling. In: Coasts and Ports '99: Challenges and Directions for the New Century. Proceedings of the 14th Australasian Coastal and Ocean Engineering Conference and the 7th Australasian Port and Harbour Conference, Perth, Western Australia, 14-15 April, Vol 2, 413-418.

- McManus, JW, Reyes, RB Jr. and Nanola, CL (1997). Effects of some destructive fishing methods on coral cover and potential rates of recovery. *Environmental Management*, 21(1): 69-78.
- Mergner, H (1985). Initial recolonization of Funafuti Atoll coral reefs devastated by Hurricane "Bebe". *Atoll Research Bulletin*, 284: 1-19.
- Merrill, RT (1984). A comparison of large and small tropical cyclones. *Monthly Weather Review*, 112: 1408-1418.
- Michener, WK, Brunt, JW and Stafford, SG, editors (1994). Environmental Information Management and Analysis: Ecosystem to Global Scales. Taylor and Francis, London, 555 pp.
- Moorhouse, FW (1936). The cyclone of 1934 and its effects on Low Isles with special observations on Porites. *Report of the Great Barrier Reef Committee*, 4: 37-44.
- Moran, PJ (1986). The Acanthaster phenomenon. *Oceanography and Marine Biology an Annual Review*, 24: 379-480.
- Nott, J and Hayne, M (2001). High frequency of 'super-cyclones' along the Great Barrier Reef over the past 5,000 years. *Nature*, 413: 508-512.
- Nystrom, M and Folke, C (2001). Spatial resilience of coral reefs. *Ecosystems*, 4: 406-417.
- Nystrom, M, Folke, C and Moberg, F (2000). Coral reef disturbance and resilience in a human-dominated environment. *Trends in Ecology and Evolution*, 15(10): 413-417.
- Ogg, JG and Koslow, JA (1978): The Impact of Typhoon Pamela (1976) on Guam's coral reefs and beaches. *Pacific Science*, 32(2): 105-118.
- Oliver, J (1973). Australian Weather Example No. 1: Tropical Cyclone. *The Australian Geographer*, 12(3): 257-263.
- Orpin, AR, Ridd, PV and Steward, LK (1999). Assessment of the relative importance of major sediment-transport mechanisms in the central Great Barrier Reef lagoon. *Australian Journal of Earth Sciences*, 46: 883-896.
- Pandolfi, JM (2002). Coral community dynamics at multiple scales. *Coral Reefs*, 21: 13-23.
- Pearson, RG (1974). Coral reefs, unpredictable climatic factors and acanthaster. In: *Crown-of-thorns starfish Seminar Proceedings*, Brisbane, 6 September 1974, 131-134.

References

- Perkins, RD and Enos, P (1968). Hurricane Betsy in the Florida-Bahama area - geologic effects and comparison with Hurricane Donna. *Journal of Geology*, 76: 710-717.
- Pittock, AB (1999). Coral reefs and environmental change: adaptation to what? *American Zoologist*, 39(1): 10-29.
- Porter, JW, Woodley, JD, Smith, GJ, Nigel, JE, Battey, JF, Dahlmeyer, DG (1981). Population trends among Jamaican reef corals. *Nature*, 294: 249-250.
- Puotinen, ML, Done, TJ and Skelly, WC, (1997). An atlas of tropical cyclones in the Great Barrier Reef Region, 1969-1997. CRC Reef Research Centre, Technical Report No. 19. Townsville; CRC Reef Research Centre, 203 pp.
- Rainford, EH (1925). Destruction of the Whitsunday group firing reefs. *Australian Museum Magazine*, 2: 175-177.
- Randall, RH and Eldredge, LG (1977). Effects of Typhoon Pamela on the coral reefs of Guam. *Proceedings of the 3rd International Coral Reef Symposium*, 2: 526-531.
- Ready, S and Woodcock, F (1992). The South Pacific and southeast Indian Ocean tropical cyclone season 1989-1990. *Australian Meteorological Magazine*, 40: 111-121.
- Riddle, M J (1988). Cyclone and bioturbation effects on sediments from coral reef lagoons. *Estuarine, Coastal, and Shelf Science*, 27: 687-695.
- Roberts, HH, Murray, SP and Suhayda, JN (1977). Physical processes in a fore-reef shelf environment. *Proceedings of the 3rd International Coral Reef Symposium*, 2: 507-515.
- Roberts, HH, Murray, SP and Suhayda, JN (1975). Physical processes in a fringing reef system. *Journal of Marine Research*, 33(3): 233-260.
- Rogers, CS, Gilnack, M and Fitz, C III (1983). Monitoring of coral reefs with linear transects: a study of storm damage. *Journal of Experimental Marine Biology and Ecology*, 66: 285-300.
- Rogers, CS, McLain, LN and Tobias, CR (1991). Effects of Hurricane Hugo (1989) on a coral reef in St. John, USVI. *Marine Ecology Progress Series*, 78 (16 December): 189-199.
- Rogers, CS, Suchanek, TH and Pecora, FA (1982). Effects of Hurricanes David and Frederic (1979) on shallow Acropora Palmata reef communities: St. Croix, U.S. Virgin Islands. *Bulletin of Marine Science*, 32(2): 532-548.
- Samsury, CE, and Zipser, EJ (1995). Secondary wind maxima in hurricanes: airflow and relationship to rainbands. *Monthly Weather Review*, 123: 3502-3517.

- Schneider, DC (2001). The rise of the concept of scale in ecology. *BioScience*, 51(7): 545-553.
- Scoffin, TP (1993). The geological effects of hurricanes on coral reefs and the interpretation of storm deposits. *Coral Reefs*, 12: 203-221.
- Sebens, KP (1994). Biodiversity of coral reefs: what are we losing and why? *American Zoologist*, 34: 115-133.
- Shea, DJ and Gray, WM (1973). The Hurricanes Inner Core Region. I. Symmetric and Asymmetric Structure. *Journal of the Atmospheric Sciences*, 30 (November): 1544-1564.
- Simpson, RH and Riehl, H (1981). The Hurricane and Its Impact. Louisiana State University Press, Baton Rouge, 398 pp.
- Singer, JD and Willett, JB (1991). Modeling the days of our lives: using survival analysis when designing and analyzing longitudinal studies of the duration and timing of events. *Quantitative Methods in Psychology*, 110(2): 268-290.
- Sobey, RJ, Harper, BA, and Stark, KP (1977). Numerical simulation of tropical cyclone storm surge. Research Bulletin No. CS14, James Cook University of North Queensland.
- Stephenson, W, Endean, R and Bennett, I (1958). An ecological survey of the marine fauna of Low Isles, Queensland. *Australian Journal of Marine and Freshwater Research*, 9: 261-318.
- Stoddart, DR (1985). Hurricane effects on coral reefs: Conclusion. *Proceedings of the 5th International Coral Reef Symposium*, 3: 349-350.
- Stoddart, DR (1971). Coral reefs and islands and catastrophic storms. In: Steers, JA (ed), Applied Coastal Geomorphology. MacMillan, London, pp 155-197.
- Stoddart, DR (1965). The shape of atolls. *Marine Geology*, 3: 369-383.
- Stoddart, DR (1963). Effects of hurricane Hattie on the British Honduras reefs and cays. October 30-31, 1961. *Atoll Research Bulletin*, 95: 1-142.
- Stoddart, DR (1962). Catastrophic storm effects on the British Honduras reefs and cays. *Nature*, 196: 512-515.
- Sutherland, GD, Richardson, JS and Bunnell, FL (1999). Uncertainties linking tail frog habitat and population dynamics with riparian vegetation. In: *Proceedings of a Conference on the Biology and Management of Species and Habitats at Risk*, Kamloops, Canada 15-19 February 1999, Volume 2.

References

- Sweatman, H, Bass, D, Cheal, A, Coleman, G, Miller, I, Ninio, R, Osbourne, K, Oxley, W, Ryan, D, Thomson, A and Tomkins, P (1998). Long Term Monitoring of the Great Barrier Reef. Status Report No. 3, 1998. Cape Ferguson, QLD: AIMS, 1998.
- Thompson, EF and Cardone, VJ (1996). Practical modelling of hurricane surface wind fields. *Journal of Waterway, Port, Coastal, and Ocean Engineering*, 122(4): 195-205.
- Tilmant, JT, Curry, RW, Jones, R, Szmant, A, Zieman, JC, Flora, M, Robblee, MB, Smith, D, Snow, RW and Wanless, H (1994). Hurricane Andrew's effects on marine resources. *Bioscience*, 44(4): 230-237.
- Tratalos JA, and Austin TJ (2001). Impacts of recreational SCUBA diving on coral communities of the Caribbean island of Grand Cayman. *Biological Conservation*, 102(1): 67-75.
- Treml, E, Colgan, M and Keevican, M (1997). Hurricane disturbance and coral reef development: a Geographical Information System (GIS) analysis of 501 years of hurricane data from the Lesser Antilles. *Proceedings of the 8th International Coral Reef Symposium*, 1: 541-546.
- Tunnicliffe, V (1982). The effects of wave-induced flow on a reef coral. *Journal of Experimental Marine Biology and Ecology*, 64: 1-10.
- Turner, MG and Dale, VH (1998). Comparing large scale disturbances: what have we learned? *Ecosystems*, 1: 493-6.
- Turner, MG, Romme, WH, Reed, RA and Tuskan, GA (2003). Post-fire aspen seedling recruitment across the Yellowstone (USA) Landscape. *Landscape Ecology*, 18(2): 127-140.
- Van Horssen, PW, Schot, PP and Barendregt, A (2003). A GIS-based plant prediction model for wetland ecosystems. *Landscape Ecology*, 14(3): 253-265.
- Van Woesik, R (1992). Contemporary disturbances to coral communities of the Great Barrier Reef. *Journal of Coastal Research*, Special Issue 12: Coastal Hazards, 233-252.
- Van Woesik, R, Ayling, AR and Mapstone, B (1991). Impact of Tropical Cyclone Ivor on the Great Barrier Reef, Australia. *Journal of Coastal Research*, 7(2): 551-558.
- Veron, JEN (1995). Corals in space and time: the biogeography and evolution of the scleractinia. University of NSW Press, Sydney, 322 pp.
- Veron, JEN (1986). Distribution of reef-building corals. *Oceanus*, 29: 27-31.

References

- Wang, Y and Wu, C-C (2003). Current understanding of tropical cyclone structure and intensity changes – a review. *Meteorology and Atmospheric Physics*. Published on-line (DOI = 10.1007/s00703-003-0055-6).
- Weatherford, CL and Gray, WM (1988). Typhoon structure as revealed by aircraft reconnaissance. Part II: Structural variability. *Monthly Weather Review*, 116: 1044-1056.
- Wells, JW (1951). The coral reefs of Arno Atoll, Marshall Islands. *Atoll Research Bulletin*, 9:1.
- Wells, SM (1988). Coral reefs of the world. Volume 3: central and western Pacific. United Nations Environment Programme, International Union for the Conservation of Nature and Natural Resources.
- White, PS and Pickett, STA (1985). Natural disturbance and patch dynamics: an introduction. In: Pickett, STA and White, PS (eds), The Ecology of Natural Disturbance and Patch Dynamics, 3-13 pp.
- Wilkinson, CR (1999). Global and local threats to coral reef functioning and existence: review and predictions. *Marine Freshwater Research*, 50: 867-78.
- Williams, AH (1984). The effects of Hurricane Allen on back reef populations of Discovery Bay, Jamaica. *Journal of Experimental Marine Biology and Ecology*, 75: 233-243.
- Willoughby, HE (1990). Temporal changes of the primary circulation in tropical cyclones. *Journal of the Atmospheric Sciences*, 47 (15 January): 242-264.
- Willoughby, HE (1988). The dynamics of the tropical cyclone core. *Australian Meteorological Magazine*, 36: 183-191.
- Witman, JD (1992). Physical disturbance and community structure of exposed and protected reefs: A case study from St. John, US Virgin Islands. *American Zoologist*, 32: 641-654.
- Wolanski, E and Van Senden, D (1983). Mixing of Burdekin River flood waters in the Great Barrier Reef. *Australian Journal of Marine and Freshwater Research*, 34: 49-63.
- Woodcock, F (1995). Australian Bureau of Meteorology Research Centre. Unpublished data.
- Woodley, JD (1992). The incidence of hurricanes on the north coast of Jamaica since 1870: are the classic reef descriptions atypical? *Hydrobiologia*, 247: 133-138.
- Woodley, JD (1980). Hurricane Allen destroys Jamaican coral reefs. *Nature*, 287: 387.

References

- Woodley, JD, Chornesky, EA; Clifford, PA, Jackson, JBC, Kaufman, LS, Knowlton, N, Lang, JC, Pearson, MP, Porter, JW, Rooney, MC, Rylaarsdam, KW, Tunnicliffe, VJ, Wahle, CM; Wulff, JL, Curtis, ASG; Dallmeyer, MD; Jupp, BP, Koehl, MAR, Neigel, J and Sides, EM (1981). Hurricane Allen's impact on Jamaican coral reefs. *Science*, 214 (4522): 749-755.
- Woodroffe, CD (2003). Coasts: form, process and evolution. Cambridge University Press, 623 pp.
- Wright, DJ and Goodchild, MF (1997). Data from the deep: implications for the GIS community. *International Journal of Geographical Information Science*, Vol 11(6): 523-528.
- Wright, DJ, Goodchild, MF and Proctor, JD (1997). Demystifying the persistent ambiguity of GIS as a "tool" versus "science". *Annals of the Association of American Geographers*, 87(2): 346-362.
- Xue, Z and Neumann, CJ (1984). Frequency and motion of Western Northern Pacific tropical cyclones. US National Hurricane Center, Coral Gables, Florida.
- Yoshioka, PM and Yoshioka, BB (1989). Effects of wave energy, topographic relief, and sediment transport on the distribution of shallow-water gorgonians of Puerto Rico. *Coral Reefs*, 8: 145-152.
- Young, IR (1989). Wave transformation over coral reefs. *Journal of Geophysical Research*, 94(C7): 9779-9789.
- Young, IR (1988). Parametric hurricane wave prediction model. *Journal of Waterway, Port, Coastal, and Ocean Engineering*, 114(5): 637-652.
- Young, IR and Hardy, TA (1993). Measurement and modelling of tropical cyclone waves in the Great Barrier Reef. *Coral Reefs*, 12: 85-95.
- Zar, JH (1996). Biostatistical analysis. Prentice-Hall, Inc., New Jersey, 662 pp.