

## REFERENCES

- Ahn (1992). "Light backscattering efficiency and related properties of some phytoplankters." Deep-Sea Research **39**(11-12A): 1835-1855.
- Aiken and Moore (2000). MERIS Algorithm Theoretical Basis Document ATBD 2.6. Case 2 bright pixel atmospheric correction. Plymouth, Plymouth Marine Laboratory: 14 pp.
- Alongi, Tirendi, et al (1999). "Mineralization of organic matter in intertidal sediments of a tropical semi-enclosed delta." Estuarine Coastal and Shelf Science **48**(4): 451-467.
- Ametistova, Jones, et al (2004). Spatial dynamics of river plumes in the Great Barrier Reef. 10th International Coral Reef Symposium "Stability and Degradation of Coral Reef Ecosystems", Okinawa, Japan, ICRS: 194.
- Ametistova and Karabashev (2003). Cluster analysis of remotely sensed data for discriminating sinks and sources of natural admixtures in case II waters. Proceedings of IUGG 2003, Sapporo, Japan, IUGG: JSG03/09P/A12-004.
- Amos and Alfoldi (1979). "The determination of suspended sediment concentration in a macrotidal system using Landsat data" Journal of Sedimental Petrology **49**: 159-174.
- Andrefouet, Muller-Karger, et al (2001). "Change detection in shallow coral reef environments using Landsat 7 ETM+ data". Remote Sensing of Environment **79**: 150-162.
- Anthony (2004). A dynamic energy-balance approach to coral stress and mortality risks in a variable environment. 10th International Coral Reef Symposium, Okinawa, Japan: 221.
- APHA (1998). Standard Methods for the Examination of Water and Wastewater. Washington, American Public Health Associationpp.
- Baban (1993). "Detecting water quality parameters in the Norfolk Broads, U.K., using Landsat imagery". International Journal of Remote Sensing **14**(7): 1247-1267.
- Babin, Morel, et al (2003). "Light scattering properties of marine particles in coastal and open ocean waters as related to the particle mass concentration." Limnology and Oceanography **48**(2): 843-859.
- Babin, Stramski, et al (2003). "Variations in the light absorption coefficients of phytoplankton, nonalgal particles, and dissolved organic matter in coastal wates around Europe." Journal of Geophysical Research-Oceans **108**(C7): 4:1-20.
- Bellwood, Hughes, et al (2004). "Confronting the coral reef crisis." Nature **429**: 827-833.
- Bergh, Borsheim, et al (1989). "High abundances of viruses found in aquatic environments." Nature **340**(6233): 467-468.
- Bissett, Patch, et al (1997). "Pigment packaging and Chl a-specific absorption in high-light

- oceanic waters." Limnology and Oceanography **42**(5): 961-968.
- BOM (2000). Queensland Flood Summary 1990 - 1999, Bureau of Meteorology: 1 pp.
- BOM (2004). Flooding in North Queensland: February to March 2004, Bureau of Meteorology: 9 pp.
- Bowers, Evans, et al (2004). "Interpreting the colour of an estuary." Estuarine, Coastal and Shelf Science **59**: 13-20.
- Braga, Setzer, et al (1993). "Water Quality Assessment with Simultaneous Landsat-5 TM Data at Guanabara Bay, Rio de Janeiro, Brazil". Remote Sensing of Environment **45**: 95-106.
- Bramley and Roth (2002). "Land-use effects on water quality in an intensively managed catchment in the Australian humid tropics." Marine and Freshwater Research **53**(5): 931-940.
- Brando and Dekker (2003). "Satellite hyperspectral remote sensing for estimating estuarine and coastal water quality." IEEE transactions on geoscience and remote sensing **41**(6): 1378-1387.
- Bricaud, Babin, et al (1995). "Variability in the chlorophyll-specific absorption-coefficients of natural phytoplankton - analysis and parameterization." Journal of Geophysical Research-Oceans **100**(C7): 13321-13332.
- Bricaud and Morel (1987). "Atmospheric corrections and interpretation of marine radiances in CZCS imagery: use of a reflectance model." Oceanologica Acta **7**: 33-50.
- Bricaud, Morel, et al (1998). "Variations of light absorption by suspended particles with chlorophyll a concentration in oceanic (case 1) waters: Analysis and implications for bio-optical models." Journal of Geophysical Research-Oceans **103**(C13): 31033-31044.
- Bricaud, Morel, et al (1981). "Absorption by dissolved organic matter in the sea (yellow substance) in the UV and visible domains." Limnology and Oceanography **26**(1): 43-53.
- Bricaud and Stramski (1990). "Spectral absorption-coefficients of living phytoplankton and nonalgal biogenous matter - a comparison between the Peru upwelling area and the Sargasso Sea." Limnology and Oceanography **35**(3): 562-582.
- Brodie (1992). "Enhancement of larval and juvenile survival and recruitment in acanthaster-planci from the effects of terrestrial runoff - a review." Australian Journal of Marine and Freshwater Research **43**(3): 539-554.
- Brunskill, Zagorskis, et al (2002). "Carbon burial rates in sediments and a carbon mass balance for the Herbert River region of the Great Barrier Reef continental shelf, North Queensland, Australia." Estuarine Coastal and Shelf Science **54**(4): 677-700.
- Bucher and Fisher (2004). A possible role for urea in mediating coral responses to chronic and

- pulsed doses of ammonium. 10th International Coral Reef Symposium, Okinawa, Japan: 49.
- Bukata, Jerome, et al (1995). Optical properties and remote sensing of inland and coastal waters. Boca Raton, Fla., CRC Press: 362 pp.
- Burrage, Heron, et al (2002). "Evolution and dynamics of tropical river plumes in the Great Barrier Reef: An integrated remote sensing and in situ study." Journal of Geophysical Research-Oceans **107**(C12): 17.1-17.22.
- Carder, Hawes, et al (1991). "Reflectance model for quantifying chlorophyll-a in the presence of productivity degradation products." Journal of Geophysical Research-Oceans **96**(C11): 20599-20611.
- Carder, Steward, et al (1989). "Marine humic and fulvic acids: Their effects on remote sensing of chlorophyll a." Limnology and Oceanography **34**: 68-81.
- Cavanagh, Burns, et al (1999). "Organochlorine pesticide residues in soils and sediments of the Herbert and Burdekin river regions, North Queensland - Implications for contamination of the Great Barrier Reef." Marine Pollution Bulletin **39**(1-12): 367-375.
- Chomko, Gordon, et al (2003). "Simultaneous retrieval of oceanic and atmospheric parameters for ocean color imagery by spectral optimization: a validation." Remote Sensing of Environment **84**(2): 208-220.
- Ciotti, Cullen, et al (1999). "A semi-analytical model of the influence of phytoplankton community structure on the relationship between light attenuation and ocean color." Journal of Geophysical Research-Oceans **104**(C1): 1559-1578.
- Culver and Perry (1997). "Calculation of solar-induced fluorescence in surface and subsurface waters." Journal of Geophysical Research-Oceans **102**(C5): 10563-10572.
- Deng and Li (2003). "Use of SeaWiFS imagery to detect three-dimensional distribution of suspended sediment." International Journal of Remote Sensing **24**(3): 519-534.
- Devlin, Brodie, et al (2001). Exposure of Great Barrier Reef inner-shelf reefs to river-borne contaminants. 2nd National Conference on Aquatic Environments: Sustaining Our Aquatic Environments - Implementing Solutions., Townsville, Australia: 1-16.
- Devlin, Waterhouse, et al (2001). Flood plumes in the Great Barrier Reef: spatial and temporal patterns in composition and distribution. Townsville, Great Barrier Reef Marine Park Authority: 122 pp.
- DNRM (2002). Queensland rivers streamflow measurements database, available on-line at <http://www.nrm.qld.gov.au/watershed/index.html>.
- Doerffer (2002). Protocols for the validation of MERIS water products, GKSS: 42 pp.

- Doerffer and Fischer (1994). "Concentrations of chlorophyll, suspended matter, and gelbstoff in case-II waters derived from satellite coastal zone color scanner data with inverse modeling methods." Journal of Geophysical Research-Oceans **99**(C4): 7457-7466.
- Doerffer and Schiller (1997). MERIS Algorithm Theoretical Basis Document ATBD 2.12. Pigment index, sediment and gelbstoff retrieval from directional water leaving radiance reflectances using inverse modelling technique. Geesthacht, GKSS Research Centre: 83 pp.
- Doxaran, Froidefonda, et al (2002). "Spectral signature of highly turbid waters. Application with SPOT data to quantify suspended particulate matter concentrations." Remote Sensing of Environment **81**: 149– 161.
- Dubinsky and Stambler (1996). "Marine pollution and coral reefs." Global Change Biology **2**(6): 511-526.
- Dupouy, Loisel, et al (2003). "Microbial absorption and backscattering coefficients from in situ and POLDER satellite data during an El Nino-Southern Oscillation cold phase in the equatorial Pacific (180 degrees)." Journal of Geophysical Research-Oceans **108**(C12).
- Edinger, Jompa, et al (1998). "Reef degradation and coral biodiversity in Indonesia: Effects of land-based pollution, destructive fishing practices and changes over time." Marine Pollution Bulletin **36**(8): 617-630.
- Eisma (1993). Suspended matter in the aquatic environment. Berlin ; New York, Springer-Verlag: 315 pp.
- ESA (2002). MERIS Product Handbook, available on-line at <http://envisat.esa.int/envisat/dataproducts/meris/CNTR.htm>.
- Fabricius, Wild, et al (2003). "Effects of transparent exopolymer particles and muddy terrigenous sediments on the survival of hard coral recruits." Estuarine Coastal and Shelf Science **57**(4): 613-621.
- Fabricius and Wolanski (2000). "Rapid smothering of coral reef organisms by muddy marine snow." Estuarine Coastal and Shelf Science **50**(1): 115-120.
- Falkowski and Woodhead, Eds. (1992). Primary productivity and biogeochemical cycles in the sea. New York, Plenum Press: 550 pp.
- Forget, Ouillon, et al (1999). "Inversion of reflectance spectra of nonchlorophyllous turbid coastal waters." Remote Sensing of Environment **68**(3): 264-272.
- Frouin (2004). Minutes from the ninth IOCCG Committee Meeting, available on-line at [http://www.ioccg.org/reports/ioccg\\_meeting9.html](http://www.ioccg.org/reports/ioccg_meeting9.html).
- Furnas (2003). Catchments and corals: terrestrial runoff to the Great Barrier Reef. Townsville,

- Australian Institute of Marine Science: 334 pp.
- Garver and Siegel (1997). "Inherent optical property inversion of ocean color spectra and its biogeochemical interpretation .1. Time series from the Sargasso Sea." Journal of Geophysical Research-Oceans **102**(C8): 18607-18625.
- GBRMPA (2001). Great Barrier Reef catchment water quality action plan, Great Barrier Reef Marine Park Authority: 68 pp.
- GBRMPA (2003). Reef water quality protection plan: for catchments adjacent to the Great Barrier Reef World Heritage Area. Brisbane, GBRMPA: 25 pp.
- GBRMPA (2004). Great Barrier Reef Marine Park zoning plan 2003. Townsville, GBRMPA: 220 pp.
- Gilmour (1999). "Experimental investigation into the effects of suspended sediment on fertilisation, larval survival and settlement in a scleractinian coral." Marine Biology **135**(3): 451-462.
- Gohin, Druon, et al (2002). "A five channel chlorophyll concentration algorithm applied to SeaWiFS data processed by SeaDAS in coastal waters." International Journal of Remote Sensing **23**(8): 1639–1661.
- Gordon (1986). "Ocean color remote sensing: influence of the particle phase function and the solar zenith angle." EOS Transactions AGU **14**: 1055.
- Gordon, Brown, et al (1988). "A semianalytic radiance model of ocean color." Journal of Geophysical Research-Oceans **93**(D9): 10909-10924.
- Gordon and Clark (1980). "Remote sensing optical properties of a stratified ocean: an improved interpretation." Applied Optics **19**(20): 3428-3430.
- Gordon (1978). "Remote sensing of optical properties in continuously stratified waters." Applied Optics **17**(12): 1893-1897.
- Gordon (1999). "Contribution of Raman scattering to water-leaving radiance: a reexamination." Applied Optics **38**(15): 3166-3174.
- Gordon and Morel (1983). Remote assessment of ocean color for interpretation of satellite visible imagery: a review. New York, Springer-Verlag: 114 pp.
- Gordon and Wang (1994). "Retrieval of water-leaving radiance and aerosol optical thickness over the oceans with SeaWiFS - a preliminary algorithm." Applied Optics **33**(3): 443-452.
- Gray, Archard, et al (1991). Operational manual for the Cary 4 and Cary 5 spectrophotometers, Varian Australia: 22 pp.
- Green and Sosik (2004). "Analysis of apparent optical properties and ocean color models using measurements of seawater constituents in New England continental shelf surface waters."

- Journal of Geophysical Research-Oceans **109**(C3).
- Green, Sosik, et al (2003). "Flow cytometric determination of size and complex refractive index for marine particles: comparison with independent and bulk estimates." Applied Optics **42**(3): 526-541.
- Green and Blough (1994). "Optical absorption and fluorescence properties of chromophoric dissolved organic matter in natural waters." Limnology and Oceanography **39**(8): 1903-1916.
- Gross, Thiria, et al (2000). "Artificial neural networks for modeling the transfer function between marine reflectance and phytoplankton pigment concentration." Journal of Geophysical Research-Oceans **105**(C2): 3483-3495.
- Hansell and Carlson, Eds. (2002). Biogeochemistry of marine dissolved organic matter. Amsterdam; Boston, Academic Press: 774 pp.
- Harrington, Schiebe, et al (1992). "Remote sensing of Lake Chicot, Arkansas: Monitoring suspended sediment, turbidity, and Secchi depth with Landsat MSS data". Remote Sensing of Environment **39**: 15-27.
- Haq (2004). "Haq received 2004 ocean sciences award." EOS **85**(16): 162.
- Haynes (2001). Great Barrier Reef water quality: current Issues. Townsville, Great Barrier Reef Marine Park Authority: 97 pp.
- Holmes (1993). Herbert river coastal sector, Department of Minerals & Energy: 32 pp.
- Hooker, Esaias, et al (1992). Volume 1: an overview of SeaWiFS and ocean color. Greenbelt, Maryland, NASA Goddard Space Flight Center: 24 pp.
- Horn (1998). Queensland riverine sediment transport rates: a progress report, Water Quality Group, Resource Sciences Centre: 13 pp.
- Hosomi (1987). "Simultaneous determination of total nitrogen and total phosphorus in freshwater samples using persulfate digestion." International Journal Environmental Studies **27**: 267-275.
- Hu, Carder, et al (2000). "Atmospheric correction of SeaWiFS imagery over turbid coastal waters: a practical method." Remote Sensing of Environment **74**: 195-206.
- Hulst (1957). Light scattering by small particles. New York : John Wiley & Sons, Inc.: 470 pp.
- Hunter and Evans (1995). "Coral reefs in Kaneohe Bay, Hawaii - 2 centuries of western influence and 2 decades of data." Bulletin of Marine Science **57**(2): 501-515.
- Ittekkot, Schaefer, et al, Eds. (1996). Particle flux in the ocean. SCOPE. New York, John Wiley & Sons: 372 pp.
- Iturriaga and Siegel (1989). "Microphotometric characterization of phytoplankton and detrital

- absorption properties in the Sargasso Sea." Limnology and Oceanography **34**(8): 1706-1726.
- Jerlov (1976). Optical oceanography, Elsevier Scientific Publishing Company: 231 pp.
- Johnson and Ebert (2000). "Quantifying inputs of pesticides to the Great Barrier Reef Marine Park - a case study in the Herbert river catchment of north-east Queensland." Marine Pollution Bulletin **41**(7-12): 302-309.
- Johnson, Ebert, et al (1999). "Distribution of coastal freshwater wetlands and riparian forests in the Herbert River catchment and implications for management of catchments adjacent the Great Barrier Reef Marine Park." Environmental Conservation **26**(3): 229-235.
- Jokiel (2004). Impact of storm waves and storm floods on Hawaiian reefs. 10th International Coral Reef Symposium, Okinawa, Japan: 194.
- Jokiel, Hunter, et al (1993). "Ecological impact of a fresh-water reef kill in Kaneohe Bay, Oahu, Hawaii." Coral Reefs **12**(3-4): 177-184.
- Jonge and Jong (2002). "'Global Change' impact of inter-annual variation in water discharge as a driving factor to dredging and spoil disposal in the river Rhine system and of turbidity in the Wadden Sea." Estuarine Coastal and Shelf Science **55**: 969-991.
- Keiner and Yan (1998). "A neural network model for estimating sea surface chlorophyll and sediments from thematic mapper imagery." Remote Sensing of Environment **66**: 153-165.
- King, McAllister, et al (2001). River plume dynamics in the Central Great Barrier Reef. Oceanographic processes of coral reefs : physical and biological links in the Great Barrier Reef. E. Wolanski. Boca Raton: 145-160.
- Kirk (1994). Light and photosynthesis in aquatic ecosystems, Cambridge University Press: 509 pp.
- Koop, Booth, et al (2001). "ENCORE: the effect of nutrient enrichment on coral reefs. Synthesis of results and conclusions." Marine Pollution Bulletin **42**(2): 91-120.
- Kopelevich, Lutsarev, et al (1989). "Light spectral absorption by yellow substance of ocean water." Okeanologiya **29**: 409-414.
- Lahet, Ouillon, et al (2000). "A three-component model of ocean color and its application in the Ebro river mouth area." Remote Sensing of Environment **72**(2): 181-190.
- Larcombe, Woolfe, et al, Eds. (1996). Great Barrier Reef: terrigenous sediment flux and human impacts. Townsville, Qld., CRC Reef Research Centre, James Cook University: 174 pp.
- Larcombe and Woolfe (1999). "Increased sediment supply to the Great Barrier Reef will not increase sediment accumulation at most coral reefs." Coral Reefs **18**: 163-169.

- Lee Long, McKenzie, et al (1998). Baseline survey of Hinchinbrook region seagrasses - October (spring) 1996. Townsville, Great Barrier Reef Marine Park Authority: 26 pp.
- Lee and Carder (2002). "Effect of spectral band numbers on the retrieval of water column and bottom properties from ocean color data." Applied Optics **41**(12): 2191-2201.
- Lee, Carder, et al (1998). "Hyperspectral remote sensing for shallow waters. I. A semianalytical model." Applied Optics **37**(27): 6329-6338.
- Lee, Carder, et al (1999). "Hyperspectral remote sensing for shallow waters: 2. Deriving bottom depths and water properties by optimization." Applied Optics **38**(18): 3831-3843.
- Lenzi and Marchi (2000). "Suspended sediment load during floods in a small stream of the Dolomites (northeastern Italy)." Catena **39**: 267-282.
- Lohrenz, Weidemann, et al (2003). "Phytoplankton spectral absorption as influenced by community size structure and pigment composition." Journal of Plankton Research **25**(1): 35-61.
- Lough (2001). Climate variability and change on the Great Barrier Reef. Oceanographic processes of coral reefs : physical and biological links in the Great Barrier Reef. E. Wolanski. Boca Raton: 269-300.
- Maritorena, Siegel, et al (2002). "Optimization of a semianalytical ocean color model for global-scale applications." Applied Optics **41**(15): 2705-2714.
- McClain, Ainsworth, et al (2000). SeaWiFS postlaunch calibration and validation analyses, part 1, NASA Goddard Space Flight Center: 82 pp.
- McClain, Esaias, et al (1992). Volume 3: SeaWiFS calibration and validation plan, NASA: 42 pp.
- McCulloch, Fallon, et al (2003). "Coral record of increased sediment flux to the inner Great Barrier Reef since European settlement." Nature **421**: 727-730.
- Miller and McKee (2004). "Using MODIS Terra 250 m imagery to map concentrations of total suspended matter in coastal waters." Remote Sensing of Environment **93**: 259-266.
- Mitchell, Bramley, et al (1997). "Export of nutrients and suspended sediment during a cyclone-mediated flood event in the Herbert River catchment, Australia." Marine and Freshwater Research **48**(1): 79-88.
- Mobley (1998). Hydrolight 4.0 users guide. Mercer Island, Sequoia Scientific Inc: 100 pp.
- Mobley, Gentili, et al (1993). "Comparison of numerical models for computing underwater light fields." Applied Optics **32**(36): 7484-7504.
- Moore, Aiken, et al (1999). "The atmospheric correction of water colour and the quantitative retrieval of suspended particulate matter in Case II waters: application to MERIS." International Journal of Remote Sensing **20**(9): 1713-1733.



- Moran, Sheldon, et al (2000). "Carbon loss and optical property changes during long-term photochemical and biological degradation of estuarine dissolved organic matter." Limnology and Oceanography **45**(6): 1254-1264.
- Morel (1988). "Optical modeling of the upper ocean in relation to Its biogenous matter content (case-I waters)." Journal of Geophysical Research-Oceans **93**(C9): 10749-10768.
- Morel and Prieur (1977). "Analysis of variations in ocean colour." Limnology and Oceanography **22**: 709-722.
- Mumby, Green, et al (1997). "Coral reef habitat-mapping: how much detail can remote sensing provide?" Marine Biology **130**: 193-202.
- Mumby, Green, et al (1998). "Digital analysis of multispectral airborne imagery of coral reefs." Coral Reefs **17**: 59-69.
- Mumby, Skirving, et al (2004). "Remote sensing of coral reefs and their physical environment." Marine Pollution Bulletin **48**: 219-228.
- NASA (2004). Tropical Cyclone Fritz, available on-line at [http://earthobservatory.nasa.gov/NaturalHazards/natural\\_hazards\\_v2.php3?img\\_id=11946](http://earthobservatory.nasa.gov/NaturalHazards/natural_hazards_v2.php3?img_id=11946).
- Neil, Orpin, et al (2002). "Sediment yield and impacts from river catchments to the Great Barrier Reef lagoon." Marine and Freshwater Research **53**(4): 733-752.
- Nelson, Siegel, et al (1998). "Seasonal dynamics of colored dissolved material in the Sargasso Sea." Deep-Sea Research Part I: Oceanographic Research Papers **45**(6): 931-957.
- NLWRA (2001). Australian agriculture assessment 2001. Canberra, National Land and Water Resources Audit: 180 pp.
- Nugues and Roberts (2003). "Coral mortality and interaction with algae in relation to sedimentation." Coral Reefs **22**(4): 507-516.
- O'Reilly, Maritorena, et al (1998). "Ocean color chlorophyll algorithms for SeaWiFS." Journal of Geophysical Research-Oceans **103**(C11): 24937-24953.
- Orpin, Ridd, et al (1999). "Assessment of the relative importance of major sediment-transport mechanisms in the central Great Barrier Reef Lagoon." Australian Journal of Earth Sciences **46**(6): 883-896.
- Orpin and Woolfe (1999). "Unmixing relationships as a method of deriving a semi-quantitative terrigenous sediment budget, central Great Barrier Reef lagoon, Australia." Sedimentary Geology **129**(1-2): 25-35.
- Ortiz and Rojas (2004). How can floods drive diversity in a non-reefal coral community? 10th International Coral Reef Symposium, Okinawa, Japan: 194.

- Oubelkheir, Dekker, et al (2003). The Australian MERIS validation project (AO595): first results. Canberra, CSIRO Land and Water: 13 pp.
- Ouillon (2003). "An inversion method for reflectance in stratified turbid waters." International Journal of Remote Sensing **24**(3): 535-558.
- Ouillon, Douillet, et al (2004). "Coupling satellite data with in situ measurements and numerical modeling to study fine suspended-sediment transport: a study for the lagoon of New Caledonia." Coral Reefs **23**(1): 109-122.
- Palandro, Andrefouet, et al (2003). "Change detection in coral reef communities using Ikonos satellite sensor imagery and historic aerial photographs." International Journal of Remote Sensing **24**: 873-878.
- Pastorok and Bilyard (1985). "Effects of sewage pollution on coral-reef communities." Marine Ecology - Progress Series **21**(1-2): 175-189.
- Patt, Barnes, et al (2003). Algorithm updates for the fourth SeaWiFS data reprocessing. Greenbelt, Maryland, NASA Goddard Space Flight Center: 74 pp.
- Pelevin and Rutkovskaya (1977). "On the optical classification of ocean waters from the spectral attenuation of solar radiation." Oceanology **17**: 28-32.
- Percival, Sardy, et al (2001). Wavestrapping time series: adaptive wavelet-based bootstrapping. Nonlinear and Nonstationary Signal Processing. W. J. Fitzgerald, R. L. Smith, A. T. Walden and P. C. Young. Cambridge, Cambridge University Press: 442-70.
- Peters, Gassman, et al (1997). "Ecotoxicology of tropical marine ecosystems." Environmental Toxicology and Chemistry **16**(1): 12-40.
- Philipp and Fabricius (2003). "Photophysiological stress in scleractinian corals in response to short-term sedimentation." Journal of Experimental Marine Biology and Ecology **287**(1): 57-78.
- Phinn, Dekker, et al (2005). "Mapping water quality and substrate cover in optically complex coastal and reef waters: an integrated approach." Marine Pollution Bulletin **51**: 459-469.
- Pierson and Strombeck (2001). "Estimation of radiance reflectance and the concentrations of optically active substances in Lake Malaren, Sweden, based on direct and inverse solutions of a simple model." Science of the Total Environment **268**(1-3): 171-188.
- Pope and Fry (1997). "Absorption spectrum (380-700 nm) of pure water .2. Integrating cavity measurements." Applied Optics **36**(33): 8710-8723.
- Pozdnyakov and Grassl (2003). Colour of inland and coastal waters: a methodology for its interpretation. Berlin; New York, Springer in association with Praxis Publishing: 170 pp.
- Pozdnyakov, Pettersson, et al (2003). "SeaWiFS maps water quality parameters of the White

- Sea." International Journal of Remote Sensing **24**(21): 4065-4071.
- Pradhan, Rajawat, et al (2003). "An improved regional algorithm to retrieve total suspended particulate matter using IRS-P4 OCM data." The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences **34**(VII): 1-5.
- Preisendorfer (1965). Radiative transfer on discrete spaces. Oxford, Pergamon Press: 462 pp.
- Prieur and Sathyendranah (1981). "An optical classification of coastal and oceanic waters based on the specific spectral absorption curves of phytoplankton pigments, dissolved organic matter, and other particular materials." Limnology and Oceanography **26**: 671-689.
- RAN (1990). Depths in metres. Palm Isles to Brook Islands and Palm Passage. Chart Aus 828. Wollongong, Hydrographic Service, Royal Australian Navy.
- Rawle (1999). Basic principles of particle size analysis, Malvern Instruments limited: 8 pp.
- Rice and Hunter (1992). "Effects of suspended sediment and burial on scleractinian corals from West Central Florida Patch Reefs." Bulletin of Marine Science **51**(3): 429-442.
- Risovic (2002). "Effect of suspended particulate-size distribution on the backscattering ratio in the remote sensing of seawater." Applied Optics **41**(33): 7092-7101.
- Ritchie and Cooper (1988). "Comparison of measured suspended sediment concentrations with suspended sediment concentrations estimated from Landsat MSS data". International Journal of Remote Sensing **9**(3): 379-387.
- Roesler and Perry (1995). "In-situ phytoplankton absorption, fluorescence emission, and particulate backscattering spectra determined from reflectance." Journal of Geophysical Research-Oceans **100**(C7): 13279-13294.
- Roesler, Perry, et al (1989). "Modeling insitu phytoplankton absorption from total absorption - spectra in productive inland marine waters." Limnology and Oceanography **34**(8): 1510-1523.
- Ruddick, Ovidio, et al (2000). "Atmospheric correction of SeaWiFS imagery for turbid coastal and inland waters." Applied Optics **39**(6): 897-912.
- Santer, Carrère, et al (1997). MERIS Algorithm Theoretical Basis Document ATBD 2.17. Pixel Identification. Wimereux, Laboratoire de Physique Appliquée aux Milieux Océaniques et Côtiers: 32 pp.
- Sathyendranath (2000). Remote sensing of ocean colour in coastal, and other optically-complex, waters. Dartmouth, Canada, IOCCG: 140 pp.
- Sathyendranath, Lazzara, et al (1987). "Variations in the spectral values of specific absorption of phytoplankton." Limnology and Oceanography **32**(2): 403-415.
- Schiller and Doerffer (1999). "Neural network for emulation of an inverse model: operational

- derivation of case II water properties from MERIS data." International Journal of Remote Sensing **20**(9): 1735-1746.
- Shifrin (1988). Physical optics of ocean water. New York, American Institute of Physics: 285 pp.
- Siegel, Wang, et al (2000). "Atmospheric correction of satellite ocean color imagery: the black pixel assumption." Applied Optics **39**(21): 3582-3591.
- Smith and Baker (1981). "Optical properties of the clearest natural waters (200-800 nm)." Applied Optics **20**: 177-184.
- Smith, Rogers, et al (1975). "Automated mapping and inventory of Great Barrier Reef zonation with Landsat." IEEE Ocean'75 **1**: 775-780.
- Sorokin (1993). Coral reef ecology. Berlin; New York, Springer: 465 pp.
- Spalding, Ravilious, et al (2001). World atlas of coral reefs. Berkeley, University of California Press: 424 pp.
- Steven, Brando, et al (2004). Satellite-based monitoring of water quality in the Great Barrier Reef region: algorithm validation and product development. 10th International Coral Reef Symposium, Okinawa, Japan: 111.
- Stramski, Bricaud, et al (2001). "Modeling the inherent optical properties of the ocean based on the detailed composition of the planktonic community." Applied Optics **40**(18): 2929-2945.
- Stramski and Kiefer (1991). "Light scattering by microorganisms in the open ocean." Progress in Oceanography **28**: 343-383.
- Stumpf, Holderied, et al (2003). "Determination of water depth with high-resolution satellite imagery over variable bottom depths." Limnology and Oceanology **48**: 547-556.
- Tabeta, Jones, et al (2002). Modelling and observation of tropical river inflow to the coastal ocean. IEEE OCEANS02, BILOXI, USA: 1234-1239.
- Tassan (1997). "A numerical model for the detection of sediment concentration in stratified river plumes using Thematic Mapper data." International Journal of Remote Sensing **18**(12): 2699-2705.
- Telesnicki and Goldberg (1995). "Effects of turbidity on the photosynthesis and respiration of 2 South Florida Reef Coral Species." Bulletin of Marine Science **57**(2): 527-539.
- Titlyanov, Titlyanova, et al (2001). "Photo-acclimation dynamics of the coral *Stylophora pistillata* to low and extremely low light." Journal of Experimental Marine Biology and Ecology **263**(2): 211-225.
- Tomascik and Sander (1987). "Effects of eutrophication on reef-building corals. 2. Structure of Scleractinian coral communities on fringing reefs, Barbados, West-Indies." Marine

- Biology **94**(1): 53-75.
- Toole and Siegel (2001). "Modes and mechanisms of ocean color variability in the Santa Barbara Channel." Journal of Geophysical Research-Oceans **106**(C11): 26985-27000.
- Twardowski, Boss, et al (2001). "A model for estimating bulk refractive index from the optical backscattering ratio and the implications for understanding particle composition in case I and case II waters." Journal of Geophysical Research-Oceans **106**(C7): 14129-14142.
- Ulloa, Sathyendranath, et al (1994). "Effect of the particle-size distribution on the backscattering ratio in seawater." Applied Optics **33**(30): 7070-7077.
- UN (1992). The Rio declaration on environment and development, available on-line at <http://www.unep.org/Documents/Default.asp?DocumentID=78&ArticleID=1163>.
- Vaillancourt, Brown, et al (2004). "Light backscattering properties of marine phytoplankton: relationships to cell size, chemical composition and taxonomy." Journal of Plankton Research **26**(2): 191-212.
- Visser (1984). "Seasonal changes in the concentration and colour of humic substances in some aquatic environments." Freshwater Biology **14**: 79-87.
- Vodacek, Blough, et al (1997). "Seasonal variation of CDOM and DOC in the Middle Atlantic Bight: Terrestrial inputs and photooxidation." Limnology and Oceanography **42**(4): 674-686.
- Vodacek, Green, et al (1994). "An experimental-model of the solar-stimulated fluorescence of chromophoric dissolved organic-matter." Limnology and Oceanography **39**(1): 1-11.
- Wang (2000). The SeaWiFS atmospheric algorithm updates. SeaWiFS postlaunch calibration and validation analyses, part 1. S. Hooker, NASA Goddard Space Flight Center: 57-63.
- Watson and al (2001). Climate Change 2001: synthesis report. Geneva, IPCC: 184 pp.
- Weber, Fabricius, et al (2004). Effects of sedimentation by contrasting sediment types on the photophysiology of corals. 10th International Coral Reef Symposium, Okinawa, Japan: 28.
- Wolanski and Done (2004). "Science and technology tools to ensure the survival of the Great Barrier Reef." Australian Academy of Technological Sciences and Engineering Focus **131**: 8-14.
- Wolanski, Mazda, et al (1990). "Dynamics, flushing and trapping in Hinchinbrook channel, a giant mangrove swamp, Australia." Estuarine Coastal and Shelf Science **31**: 555-579.
- Woolfe, Larcombe, et al (2000). "Spatial variability in fluvial style and likely responses to sea-level change, Herbert River, Queensland." Australian Journal of Earth Sciences **47**(4): 689-694.

- Woolfe, Larcombe, et al (2000). "Shelf sediments adjacent to the Herbert River delta, Great Barrier Reef, Australia." Australian Journal of Earth Sciences **47**(2): 301-308.
- Zhang, Lewis, et al (2002). "The volume scattering function of natural bubble populations." Limnology and Oceanography **47**(5): 1273-1282.