

WATER QUALITY BIBLIOGRAPHY 2000-2005

Long Term Goal 2 Journal Articles

- (1) Ator, S.W., Olsen, A.R., Pitchford, A.M.,and Denver, J.M. Application of a multipurpose unequal probability stream survey in the Mid-Atlantic Coastal Plain. *Journal of the American Water Resources Association* 2003; 39(4):873-85.
- (2) Barbier, M., Leighfield, T.A., Soyer-Gobillard, M.O.,and Van Dolah, F.M. Permanent expression of a cyclin B homologue in the cell cycle of the dinoflagellate Karenia brevis. *Journal of Eukaryotic Microbiology* 2003; 50(2):123-31.
- (3) Barile, P.J., Lapointe, B.E.,and Capo, T.R. Dietary nitrogen availability in macroalgae enhances growth of the sea hare Aplysia californica (Opisthobranchia : Anaspidea). *Journal of Experimental Marine Biology and Ecology* 2004; 303(1):65-78.
- (4) Berry, J.P., Reece, K.S., Rein, K.S., Baden, D.G., Haas, L.W., Ribeiro, W.L., Shields, J.D., Snyder, R.V., Vogelbein, W.K.,and Gawley, R.E. Are *Pfiesteria* species toxicogenic? Evidence against production of ichthyotoxins by *Pfiesteria shumwayae*. *Proceedings of the National Academy of Sciences of the United States of America* 2002; 99(17):10970-5.
- (5) Bissett, W.P., Arnone, R., Debra, S., Dieterle, D.A., Dye, D., Kirkpatrick, G.J., Schofield, O.M.,and Vargo, G.A. Predicting the optical properties of the West Florida Shelf: resolving the potential impacts of a terrestrial boundary condition on the distribution of colored dissolved and particulate matter. *Marine Chemistry* 2005; 95(3-4):199-233.
- (6) Bowers, H.A., Tengs, T., Glasgow, H.B., Burkholder, J.M., Rublee, P.A.,and Oldach, D.W. Development of real-time PCR assays for rapid detection of *Pfiesteria piscicida* and related dinoflagellates. *Applied and Environmental Microbiology* 2000; 66(11):4641-8.
- (7) Brazner, J.C., Tanner, D.K., Detenbeck, N.E., Batterman, S.L., Stark, S.L., Jagger, L.A.,and Snarski, V.M. Landscape character and fish assemblage structure and function in western Lake Superior streams: General relationships and identification of thresholds. *Environmental Management* 2004; 33(6):855-75.
- (8) Brazner, J.C., Tanner, D.K., Detenbeck, N.E., Batterman, S.L., Stark, S.L., Jagger, L.A.,and Snarski, V.M. Regional, watershed, and site-specific environmental influences on fish assemblage structure and function in western Lake Superior tributaries. *Canadian Journal of Fisheries and Aquatic Sciences* 2005; 62(6):1254-70.
- (9) Burgess, R.M. Characterizing and identifying toxicants in marine waters: a review of marine toxicity identification evaluations (TIEs). *International Journal of Environment and Pollution* 2000; 13(1-6):2-33.
- (10) Burgess, R.M., Cantwell, M.G., Pelletier, M.C., Ho, K.T., Serbst, J.R., Cook, H.F.,and Kuhn, A. Development of a toxicity identification evaluation procedure for characterizing metal toxicity in marine sediments. *Environmental Toxicology and Chemistry* 2000; 19(4):982-91.

- (11) Burgess, R.M., Pelletier, M.C., Ho, K.T., Serbst, J.R., Ryba, S.A., Kuhn, A., Perron, M.M., Raczelowski, P.,and Cantwell, M.G. Removal of ammonia toxicity in marine sediment TIEs: a comparison of *Ulva lactuca*, zeolite and aeration methods. *Marine Pollution Bulletin* 2003; 46(5):607-18.
- (12) Butts, G.L., Lewis, M.A. A survey of chemical and biological structure in three Florida Bayou-estuaries. *Gulf of Mexico Science* 2002; 20(1):1-11.
- (13) Cannizzaro, J.P., Carder, K.L., Chen, F.R., Heil, C.A.,and Vargo, G.A. A novel technique for detection of the toxic dinoflagellate *Karenia brevis* in the Gulf of Mexico from remotely sensed ocean color data. Accepted. *Continental Shelf Research* 2005.
- (14) Cantwell, M.G., Burgess, R.M. Variability of parameters measured during the resuspension of sediments with a particle entrainment simulator. *Chemosphere* 2004; 56(1):51-8.
- (15) Caron, D.A. Marine microbial ecology in a molecular world: what does the future hold? *Scientia Marina* 2005; 69:97-110.
- (16) Carr, R.S., Montagna, P.A., Biedenbach, J.M., Kalke, R., Kennicutt, M.C., Hooten, R.,and Cripe, G. Impact of storm-water outfalls on sediment quality in Corpus Christi Bay, Texas, USA. *Environmental Toxicology and Chemistry* 2000; 19(3):561-74.
- (17) Clements, W.H., Carlisle, D.M., Lazorchak, J.M.,and Johnson, P.C. Heavy metals structure benthic communities in Colorado mountain streams. *Ecological Applications* 2000; 10(2):626-38.
- (18) Cormier, S.M., Smith, M., Norton, S.,and Neiheisel, T. Assessing ecological risk in watersheds: A case study of problem formulation in the Big Darby Creek watershed, Ohio, USA. *Environmental Toxicology and Chemistry* 2000; 19(4):1082-96.
- (19) Cormier, S.M., Lin, E.L.C., Fulk, F.,and Subramanian, B. Estimation of exposure criteria values for biliary polycyclic aromatic hydrocarbon metabolite concentrations in white suckers (*Catostomus commersoni*). *Environmental Toxicology and Chemistry* 2000; 19(4):1120-6.
- (20) Cormier, S.M., Lin, E.L.C., Millward, M.R., Schubauer-Berigan, M.K., Williams, D.E., Subramanian, B., Sanders, R., Counts, B.,and Altfater, D. Using regional exposure criteria and upstream reference data to characterize spatial and temporal exposures to chemical contaminants. *Environmental Toxicology and Chemistry* 2000; 19(4):1127-35.
- (21) Cormier, S.M., Millward, M.R., Mueller, C., Subramanian, B., Johnson, R.D.,and Tietge, J.E. Temporal trends in ethoxyresorufin-O-deethylase activity of brook trout (*Salvelinus fontinalis*) fed 2,3,7,8-tetrachlorodibenzo-p-dioxin. *Environmental Toxicology and Chemistry* 2000; 19(2):462-71.
- (22) Cormier, S.M., Norton, S.B., Suter, G.W., Altfater, D.,and Counts, B. Determining the causes of impairments in the Little Scioto River, Ohio, USA: Part 2. Characterization of causes. *Environmental Toxicology and Chemistry* 2002; 21(6):1125-37.

- (23) Cormier, S.M., Norton, S.B.,and Suter, G.W. The US Environmental Protection Agency's stressor identification guidance: A process for determining the probable causes of biological impairments. *Human and Ecological Risk Assessment* 2003; 9(6):1431-43.
- (24) Cyterski, M., Ney, J.,and Duval, M. Predator demand for clupeid prey in Smith Mountain Lake, Virginia. *Fisheries Research* 2002; 59(1-2):1-16.
- (25) Cyterski, M., Ney, J.,and Duval, M. Estimation of surplus biomass of clupeids in Smith Mountain Lake, Virginia. *Transactions of the American Fisheries Society* 2003; 132(2):361-70.
- (26) Cyterski, M.J., Ney, J.J. Availability of clupeid prey to primary piscivores in Smith Mountain Lake, Virginia. *Transactions of the American Fisheries Society* 2005; 134(5):1410-21.
- (27) Darrow, B.P., Walsh, J.J., Vargo, G.A., Masserini, R.T., Fanning, K.A.,and Zhang, J.Z. A simulation study of the growth of benthic microalgae following the decline of a surface phytoplankton bloom. *Continental Shelf Research* 2003; 23(14-15):1265-83.
- (28) Del Castillo, C.E., Coble, P.G., Conmy, R.N., Muller-Karger, F.E., Vanderbloemen, L.,and Vargo, G.A. Multispectral in situ measurements of organic matter and chlorophyll fluorescence in seawater: Documenting the intrusion of the Mississippi River plume in the West Florida Shelf. *Limnology and Oceanography* 2001; 46(7):1836-43.
- (29) Detenbeck, N.E., Batterman, S.L., Brady, V.J., Brazner, J.C., Snarski, V.M., Taylor, D.L., Thompson, J.A.,and Arthur, J.W. A test of watershed classification systems for ecological risk assessment. *Environmental Toxicology and Chemistry* 2000; 19(4):1174-81.
- (30) Detenbeck, N.E., Elonen, C.M., Taylor, D.L., Anderson, L.E., Jicha, T.M.,and Batterman, S.L. Effects of hydrogeomorphic region, catchment storage and mature forest on baseflow and snowmelt stream water quality in second-order Lake Superior Basin tributaries. *Freshwater Biology* 2003; 48(5):912-27.
- (31) Detenbeck, N.E., Elonen, C.M., Taylor, D.L., Anderson, L.E., Jicha, T.M.,and Batterman, S.L. Region, landscape, and scale effects on Lake Superior tributary water quality. *Journal of the American Water Resources Association* 2004; 40(3):705-20.
- (32) Detenbeck, N.E., Brady, V.J., Taylor, D.L., Snarski, V.M.,and Batterman, S.L. Relationship of stream flow regime in the western Lake Superior basin to watershed type characteristics. *Journal of Hydrology* 2005; 309(1-4):258-76.
- (33) Detenbeck, N.E., Cincotta, D., Denver, J.M., Greenlee, S.K., Olsen, A.R.,and Pitchford, A.M. Watershed-based survey designs. *Environmental Monitoring and Assessment* 2005; 103(1-3):59-81.
- (34) Detenbeck, N.E., Elonen, C.M., Taylor, D.L., Cotter, A.M., Puglisi, F.A.,and Sanville, W.D. Effects of agricultural activities and best management practices on water quality of seasonal prairie pothole wetlands. *Wetland Ecology and Management* 2005; 10(4):335-54.

- (35) Devereux R, Rublee P, Paul JH, Field KG, Santo Domingo JW. Development and application of microbial ecogenomic indicators for monitoring water quality: report of a workshop assessing the state of the science, research needs and future directions. *Environmental Monitoring and Assessment*. In press.
- (36) Diamond, J.M., Serveiss, V.B. Identifying sources of stress to native aquatic fauna using a watershed ecological risk assessment framework. *Environmental Science & Technology* 2001; 35(24):4711-8.
- (37) Diamond, J.M., Bressler, D.W.,and Serveiss, V.B. Assessing relationships between human land uses and the decline of native mussels, fish, and macroinvertebrates in the Clinch and Powell river watershed, USA. *Environmental Toxicology and Chemistry* 2002; 21(6):1147-55.
- (38) Didonato, G.T., Summers, J.K.,and Roush, T.H. Assessing the ecological condition of a coastal plain watershed using a probabilistic survey design. *Environmental Monitoring and Assessment* 2003; 85(1):1-21.
- (39) Dolan, J.R., Rassoulzadegan, F.,and Caron, D.A. The first decade of 'Aquatic Microbial Ecology' (1995-2005): evidence for gradualism or punctuated equilibrium? *Aquatic Microbial Ecology* 2005; 39(1):3-6.
- (40) Dyhrman, S. Ectoenzymes in *Prorocentrum minimum*. *Harmful Algae* 2005; 4(3):619-27.
- (41) Engle, V.D., Kurtz, J.C., Smith, L.M.,and Chancy, C. A classification of U.S. estuaries based on physical, hydrological and land cover attributes. Submitted. *Ecological Applications* 2005.
- (42) Evans, T.J., Kirkpatrick, G.J., Millie, D.F., Chapman, D.J.,and Schofield, O.M.E. Photophysiological responses of the toxic red-tide dinoflagellate *Gymnodinium breve* (Dinophyceae) under natural sunlight. *Journal of Plankton Research* 2001; 23(11):1177-93.
- (43) Field, L.J., MacDonald, D.D., Norton, S.B., Ingersoll, C.G., Severn, C.G., Smorong, D.,and Lindskoog, R. Predicting amphipod toxicity from sediment chemistry using logistic regression models. *Environmental Toxicology and Chemistry* 2002; 21(9):1993-2005.
- (44) Fisher, W.S., Jackson, L.E., Suter, G.W.,and Bertram, P. Indicators for human and ecological risk assessment: A US environmental protection agency perspective. *Human and Ecological Risk Assessment* 2001; 7(5):961-70.
- (45) Folmar, L.C., Denslow, N.D., Kroll, K., Orlando, E.F., Enblom, J., Marcino, J., Metcalfe, C.,and Guillette, L.J. Altered serum sex steroids and vitellogenin induction in walleye (*Stizostedion vitreum*) collected near a metropolitan sewage treatment plant. *Archives of Environmental Contamination and Toxicology* 2001; 40(3):392-8.
- (46) Fournie, J.W., Summers, J.K., Courtney, L.A., Engle, V.D.,and Blazer, V.S. Utility of splenic macrophage aggregates as an indicator of fish exposure to degraded environments. *Journal of Aquatic Animal Health* 2001; 13(2):105-16.

- (47) Galac, M., Erdner, D., Anderson, D.M.,and Dyhrman, S. Molecular quantification of toxic *Alexandrium fundyense* in the Gulf of Maine. *Biological Bulletin* 2003; 205(2):231-2.
- (48) Gastrich, M.D., Anderson, O.R.,and Cosper, E.M. Viral-like particles (VLPS) in the alga, *Aureococcus anophagefferens* (Pelagophyceae), during 1999-2000 brown tide blooms in Little Egg Harbor, New Jersey. *Estuaries* 2002; 25(5):938-43.
- (49) Gobler, C.J., Deonarine, S., Leigh-Bell, J., Gastrich, M.D., Anderson, O.R.,and Wilhelm, S.W. Ecology of phytoplankton communities dominated by *Aureococcus anophagefferens*: the role of viruses, nutrients, and microzooplankton grazing. *Harmful Algae* 2004; 3(4):471-83.
- (50) Goodfellow, W.L., Ausley, L.W., Burton, D.T., Denton, D.L., Dorn, P.B., Grothe, D.R., Heber, M.A., Norberg-King, T.J.,and Rodgers, J.H. Major ion toxicity in effluents: A review with permitting recommendations. *Environmental Toxicology and Chemistry* 2000; 19(1):175-82.
- (51) Goodman, L.R., Macauley, J.M., Roush, T.H., Scott, G.I., Bearden, D.W., Moore, J.C., Sivertsen, S.K., Dias, A.R.,and Strozier, E.D. Chemical contaminants in sediment, water, and fish from the lower C-111 canal system and selected tributaries to northeastern Florida Bay during 1997. Submitted. *Archives of Environmental Contamination and Toxicology* 2005.
- (52) Grattan, L.M., Oldach, D.,and Morris, J.G. Human health risks of exposure to *Pfiesteria piscicida*. *Bioscience* 2001; 51(10):853-7.
- (53) Hagey, J.D., Fisher, T.R., Boynton, W.R.,and Williams, M.R. An analysis of cultural eutrophication in the Choptank and Patuxent River. Submitted. *Limnology and Oceanography* 2005.
- (54) Haselow, D.T., Brown, E., Tracy, J.K., Magnien, R., Grattan, L.M., Morris, J.G.,and Oldach, D.W. Gastrointestinal and respiratory tract symptoms following brief environmental exposure to aerosols during a pfiesteria-related fish kill. *Journal of Toxicology and Environmental Health-Part A* 2001; 63(8):553-64.
- (55) Heinis, L.J., Highland, T.L.,and Mount, D.R. Method for testing the aquatic toxicity of sediment extracts for use in identifying organic toxicants in sediments. *Environmental Science & Technology* 2004; 38(23):6256-62.
- (56) Hill, B.H., Herlihy, A.T., Kaufmann, P.R., Stevenson, R.J., McCormick, F.H.,and Johnson, C.B. Use of periphyton assemblage data as an index of biotic integrity. *Journal of the North American Benthological Society* 2000; 19(1):50-67.
- (57) Hill, B.H., Kaufmann, P.R., DeCelles, S.J.,and Vander Borgh M.A. Assessment of streams of the eastern United States using a periphyton index of biotic integrity. *Ecological Indicators* 2003; 2(4):325-38.
- (58) Hitchcock, G.L., Vargo, G.A.,and Dickson, M.L. Plankton community composition, production, and respiration in relation to dissolved inorganic carbon on the West Florida Shelf, April 1996. *Journal of Geophysical Research-Oceans* 2000; 105(C3):6579-89.

- (59) Ho, K.T., Kuhn, A., Burgess, R.M., Pelletier, M., McGovern, D.G., Charles, J.,and Patton, L. Use of marine toxicity identification and evaluation methods in determining causes of toxicity to fish in a marine aquarium facility. *North American Journal of Aquaculture* 2003; 65(1):14-20.
- (60) Ho, K.T., Burgess, R.M., Pelletier, M.C., Serbst, J.R., Cook, H., Cantwell, M.G., Ryba, S.A., Perron, M.M., Lebo, J., Huckins, J.,and Petty, J. Use of powdered coconut charcoal as a toxicity identification and evaluation manipulation for organic toxicants in marine sediments. *Environmental Toxicology and Chemistry* 2004; 23(9):2124-31.
- (61) Hu, C.M., Muller-Karger, F.E., Lee, Z., Carder, K.L., Roberts, B., Walsh, J.J., Heil, C., Coble, P.G., Steidinger, K., McRae, G., Weisberg, R.H., He, R., Johns, E., Lee, T., Keller, B., Kuring, N., Cannizzaro, J.P., Ivey, J., Vargo, G.A., Zepp, R.G., Boyer, J., Jones, R., Kirkpatrick, G., Stumpf, R.P., Mueller, E., Bartels, E., Pierce, R., Culter, J.,and Hunt, J. Satellite images track "black water" event off Florida coast. *EOS Newsletter* 2002; 83(26):281-5.
- (62) Huggett, D.B., Steevens, J.A., Allgood, J.C., Lutken, C.B., Grace, C.A.,and Benson, W.H. Mercury in sediment and fish from North Mississippi Lakes. *Chemosphere* 2001; 42(8):923-9.
- (63) Hyland, J.L., Balthis, W.L., Engle, V.D., Long, E.R., Paul, J.F., Summers, J.K.,and Van Dolah, R.F. Incidence of stress in benthic communities along the US Atlantic and Gulf of Mexico coasts within different ranges of sediment contamination from chemical mixtures. *Environmental Monitoring and Assessment* 2003; 81(1-3):149-61.
- (64) Jakobsen, K.S., Tengs, T., Vatne, A., Bowers, H.A., Oldach, D.W., Burkholder, J.M., Glasgow, H.B., Rublee, P.A.,and Klaveness, D. Discovery of the toxic dinoflagellate *Pfiesteria* in northern European waters. *Proceedings of the Royal Society of London Series B-Biological Sciences* 2002; 269(1487):211-4.
- (65) James, J.B., Sherman, T.D.,and Devereuz, R. An investigation of the effects of season, depth, and seagrass vegetation on sediment bacterial communities using bioinformatics analysis of 16srDNA migration patterns using double gradient denaturing gel electrophoresis. Submitted. *Microbial Ecology* 2005.
- (66) Johnson, R.A., Zabrecky, J., Kiryu, Y.,and Shields, J.D. Infection experiments with *Aphanomyces invadans* in four species of estuarine fish. *Journal of Fish Diseases* 2004; 27(5):287-95.
- (67) Jolliff, J.K., Walsh, J.J., He, R.Y., Weisberg, R., Stovall-Leonard, A., Coble, P.G., Conmy, R., Heil, C., Nababan, B., Zhang, H.Y., Hu, C.M.,and Muller-Karger, F.E. Dispersal of the Suwannee River plume over the West Florida shelf: Simulation and observation of the optical and biochemical consequences of a flushing event. *Geophysical Research Letters* 2003; 30(13).
- (68) Kaldy, J.E., Cifuentes, L.A.,and Brock, D. Using stable isotope analyses to assess carbon dynamics in a shallow subtropical estuary. *Estuaries* 2005; 28(1):86-95.

- (69) Kamykowski, D., Zentara, S.J. Changes in world ocean nitrate availability through the 20th century. *Deep-Sea Research Part I-Oceanographic Research Papers* 2005; 52(9):1719-44.
- (70) Kane, A.S., Salierno, J.D., Gipson, G.T., Molteno, T.C.A.,and Hunter, C. A video-based movement analysis system to quantify behavioral stress responses of fish. *Water Research* 2004; 38(18):3993-4001.
- (71) Kentula, M.E. Perspectives on setting success criteria for wetland restoration. *Ecological Engineering* 2000; 15(3-4):199-209.
- (72) Kentula, M.E. Book review. "Reflections in Bullough's Pond: Economy and Ecosystem in New England." Taylor & Francis. *Society & Natural Resources* 2002; 15(2):189-98.
- (73) Kerfoot, W.C., Harting, S.L., Rossmann, R.,and Robbins, J.A. Elemental mercury in copper, silver, and gold ores: an unexpected contribution to Lake Superior sediments with global implications. *Geochemistry: Exploration, Environment, Analysis* 2002; 2(2):185-202.
- (74) Kerfoot, W.C., Harting, S.L., Jeong, J., Robbins, J.A.,and Rossmann, R. Local, regional, and global implications of elemental mercury in metal (copper, silver, gold, and zinc) ores: Insights from Lake Superior sediments. *Journal of Great Lakes Research* 2004; 30:162-84.
- (75) Kirkpatrick, G.J., Millie, D.F., Moline, M.A.,and Schofield, O. Optical discrimination of a phytoplankton species in natural mixed populations. *Limnology and Oceanography* 2000; 45(2):467-71.
- (76) Kirkpatrick, G.J., Orrico, C., Moline, M.A., Oliver, M.,and Schofield, O.M. Continuous hyperspectral absorption measurements of colored dissolved organic material in aquatic systems. *Applied Optics* 2003; 42(33):6564-8.
- (77) Kiryu, Y., Shields, J.D., Vogelbein, W.K., Zwerner, D.E., Kator, H.,and Blazer, V.S. Induction of skin ulcers in Atlantic menhaden by injection and aqueous exposure to the zoospores of *Aphanomyces invadans*. *Journal of Aquatic Animal Health* 2002; 14(1):11-24.
- (78) Kiryu, Y., Shields, J.D., Vogelbein, W.K., Kator, H.,and Blazer, V.S. Infectivity and pathogenicity of the oomycete *Aphanomyces invadans* in Atlantic menhaden *Brevoortia tyrannus*. *Diseases of Aquatic Organisms* 2003; 54(2):135-46.
- (79) Klemm, D.J., Blocksom, K.A., Fulk, F.A., Herlihy, A.T., Hughes, R.M., Kaufmann, P.R., Peck, D.V., Stoddard, J.L., Thoeny, W.T., Griffith, M.B.,and Davis, W.S. Development and evaluation of a Macroinvertebrate Biotic Integrity Index (MBII) for regionally assessing Mid-Atlantic Highlands streams. *Environmental Management* 2003; 31(5):656-69.
- (80) Kurtz, J.C., Detenbeck, N.D., Engle, V.D., Ho, K., Smith, L.M., Jordan, S.J.,and Campbell, D. Classifying coastal waters: current necessity and historical perspective. Submitted. *Estuaries* 2005.

- (81) Lapointe, B.E., Barile, P.J., Yentsch, C.S., Littler, M.M., Littler, D.S.,and Kakuk, B. The relative importance of nutrient enrichment and herbivory on macroalgal communities near Norman's Pond Cay, Exumas Cays, Bahamas: a "natural" enrichment experiment. *Journal of Experimental Marine Biology and Ecology* 2004; 298(2):275-301.
- (82) Lapointe, B.E. Phosphorus-rich waters at Grovers Reef, Belize? *Marine Pollution Bulletin* 2004; 48(1-2):193-5.
- (83) Lapointe, B.E., Barile, P.J., Wynne, M.J.,and Tentsch, C.S. Reciprocal *Caulerpa* invasion: Mediterranean native *Caulerpa ollivieri* in the Bahamas supported by human nitrogen enrichment. *Aquatic Invaders* 2005; 16(2):1-5.
- (84) Lebo, J.A., Huckins, J.N., Petty, J.D., Ho, K.T.,and Stern, E.A. Selective removal of organic contaminants from sediments: a methodology for toxicity identification evaluations (TIEs). *Chemosphere* 2000; 40(8):811-9.
- (85) Lebo JA, Huckins JN, Petty JD, Cranor WL, Ho KT. Comparison of coarse and fine versions of two carbons for reducing the bioavailabilities of sediment-bound hydrophobic organic contaminants. *Chemosphere*. In press.
- (86) Lehrter, J.C., Pennock, J.P. A comparative analysis of nutrient and chlorophyll α concentrations along three tidal river estuaries in relation to watershed nutrient loads and spatially resolved estuarine residence times. Submitted. *Estuaries* 2005.
- (87) Lenes, J.M., Darrow, B.P., Catrall, C., Heil, C.A., Callahan, M., Vargo, G.A., Byrne, R.H., Prospero, J.M., Bates, D.E., Fanning, K.A.,and Walsh, J.J. Iron fertilization and the *Trichodesmium* response on the West Florida shelf. *Limnology and Oceanography* 2001; 46(6):1261-77.
- (88) Lenes, J.M., Walsh, J.J., Otis, D.B.,and Carder, K.L. Iron fertilization of *Trichodesmium* off the west coast of Barbados: A one-dimensional numerical model. *Deep-Sea Research Part I-Oceanographic Research Papers* 2005; 52(6):1021-41.
- (89) Lester, K.M., Heil, C., Neely, M.B., Spence, D., Murasko, S., Milroy, S., Hopkins, T., Sutton, T., Burghart, S., Bohr, R., Remson, A., Vargo, G.A.,and Walsh, J.J. Zooplankton and *Karenia brevis* in the Gulf of Mexico. Accepted. *Continental Shelf Research* 2005.
- (90) Lewis M, Weber D, Stanley R, Albrecht B. Treated wastewater as a source of sediment contamination in Gulf of Mexico near-coastal areas: A survey. *Environmental Toxicology and Chemistry*. In press.
- (91) Lewis, M.A., Weber, D.E., Goodman, L.R., Stanley, R.S., Craven, W.G., Patrick, J.M., Quarles, R.L., Roush, T.H.,and Macauley, J.M. Periphyton and sediment bioassessment in north Florida Bay. *Environmental Monitoring and Assessment* 2000; 65(3):503-22.
- (92) Lewis, M.A., Weber, D.E.,and Stanley, R.S. Wetland plant seedlings as indicators of near-coastal sediment quality: interspecific variation. *Marine Environmental Research* 2000; 50(1-5):535-40.

- (93) Lewis, M.A., Foss, S.S. A caridean grass shrimp (*Palaemonetes pugio* Holthius) as an indicator of sediment quality in Florida coastal areas affected by point and nonpoint source contamination. *Environmental Toxicology* 2000; 15(3):234-42.
- (94) Lewis, M.A., Weber, D.E., Stanley, R.S.,and Moore, J.C. Dredging impact on an urbanized Florida bayou: effects on benthos and algal-periphyton. *Environmental Pollution* 2001; 115(2):161-71.
- (95) Lewis, M.A., Foss, S.S., Harris, P.S., Stanley, R.S.,and Moore, J.C. Sediment chemical contamination and toxicity associated with a coastal golf course complex. *Environmental Toxicology and Chemistry* 2001; 20(7):1390-8.
- (96) Lewis, M.A., Moore, J.C., Goodman, L.R., Patrick, J.M., Stanley, R.S., Roush, T.H.,and Quarles, R.L. The effects of urbanization on the chemical quality of three tidal bayous in the Gulf of Mexico. *Water Air and Soil Pollution* 2001; 127(1-4):65-91.
- (97) Lewis, M.A., Weber, D.E., Stanley, R.S.,and Moore, J.C. The relevance of rooted vascular plants as indicators of estuarine sediment quality. *Archives of Environmental Contamination and Toxicology* 2001; 40(1):25-34.
- (98) Lewis, M.A., Scott, G.,and Klaine, S.J. Marine and estuarine toxicology and chemistry. *Environmental Toxicology and Chemistry* 2001; 20(1):1-2.
- (99) Lewis, M.A., Boustany, R.G., Dantin, D.D., Quarles, R.L., Moore, J.C.,and Stanley, R.S. Effects of a coastal golf complex on water quality, periphyton, and seagrass. *Ecotoxicology and Environmental Safety* 2002; 53(1):154-62.
- (100) Lewis, M.A., Weber, D.L.,and Moore, J.C. An evaluation of the use of colonized periphyton as an indicator of wastewater impact in near-coastal areas of the Gulf of Mexico. *Archives of Environmental Contamination and Toxicology* 2002; 43(1):11-8.
- (101) Lewis, M.A., Scott, G.I., Bearden, D.W., Quarles, R.L., Moore, J., Strozier, E.D., Sivertsen, S.K., Dias, A.R.,and Sanders, M. Fish tissue quality in near-coastal areas of the Gulf of Mexico receiving point source discharges. *Science of the Total Environment* 2002; 284(1-3):249-61.
- (102) Lewis, M.A., Daniels, C.B., Moore, J.C.,and Chen, T. Potential genotoxicity of wastewater-contaminated pore waters with comparison to sediment toxicity and macrobenthic community composition. *Environmental Toxicology* 2002; 17(1):63-73.
- (103) Lewis MA, Weber DL, Moore JC. Trace metal availability to periphyton colonized below near-coastal wastewater discharges in the Gulf of Mexico. Dimensions of Pollution. In press.
- (104) Lewis, M.A., Goodman, L.R., Macauley, J.M.,and Moore, J.C. Sediment toxicity and community composition of benthos and colonized periphyton in the Everglades-Florida Bay transitional zone. *Ecotoxicology* 2004; 13(3):231-44.
- (105) Lewis, M.A., Quarles, R.L., Dantin, D.D.,and Moore, J.C. Evaluation of a Florida coastal golf complex as a local and watershed source of bioavailable contaminants. *Marine Pollution Bulletin* 2004; 48(3-4):254-62.

- (106) Lewis MA, Daniels CB, Chancey CA. Microbial genotoxicity as an environmental indicator for near-coastal sediment pore water. *Environmental Monitoring and Assessment*. In press.
- (107) Lewis MA, Campbell JG, Harris PS, Dantin DD, Foss SS, Quarles RL, Moore JC, Chancy CA. Characterization of potential reference areas in the Gulf of Mexico: sediment chemical and biological quality. *Soil & Sediment Contamination*. In press.
- (108) Lewis, M.A., Dantin, D.D., Chancy, C.A., Abel, K.C.,and Lewis, C.G. Florida seagrass habitat evaluation: a comparative survey for chemical quality. Submitted. *Aquatic Botany* 2005.
- (109) Lewis, M.A., Campbell, J.G., Harris, P.S., Dantin, D.D., Foss, S.S., Quarles, R.L., Moore, J.C.,and Chancy, C.A. Characterization of potential reference areas in the Gulf of Mexico: sediment chemical and biological quality. In press. *Soil and Sediment Contamination* 2005.
- (110) Litaker, R.W., Vandersea, M.W., Kibler, S.R., Reece, K.S., Stokes, N.A., Steidinger, K.A., Millie, D.F., Bendis, B.J., Pigg, R.J.,and Tester, P.A. Identification of *Pfiesteria piscicida* (Dinophyceae) and *Pfiesteria*-like organisms using internal transcribed spacer-specific PCR assays. *Journal of Phycology* 2003; 39(4):754-61.
- (111) Liu, G., Janowitz, G.S.,and Kamikowski, D. Influence of environmental nutrient conditions on *Gymnodinium breve* (Dinophyceae) population dynamics: a numerical study. *Marine Ecology-Progress Series* 2001; 213:13-37.
- (112) Liu, G., Janowitz, G.S.,and Kamikowski, D. A biophysical model of population dynamics of the autotrophic dinoflagellate *Gymnodinium breve*. *Marine Ecology-Progress Series* 2001; 210:101-24.
- (113) Liu, G., Janowitz, G.S.,and Kamikowski, D. Influence of current shear on *Gymnodinium breve* (Dinophyceae) population dynamics: a numerical study. *Marine Ecology-Progress Series* 2002; 231:47-66.
- (114) Lohmann, R., Burgess, R.M., Cantwell, M.G., Ryba, S.A., MacFarlane, J.K.,and Gschwend, P.M. Dependency of polychlorinated biphenyl and polycyclic aromatic hydrocarbon bioaccumulation in *Mya arenaria* on both water column and sediment bed chemical activities. *Environmental Toxicology and Chemistry* 2004; 23(11):2551-62.
- (115) Lores EM, Specht DT. Drought-Induced decline of sub-merged aquatic vegetation in Escambia, Bay Florida. *Gulf of Mexico Science*. In press.
- (116) Lores, E.M., Murrell, M.C., Didonato, G.T., Stanley, R.S., Snyder, R.A., Sipura, J.,and Flemer, D.A. Effects of zooplankton grazing on phytoplankton communities in Escambia Bay, Florida. Submitted. *Marine Ecology Progress Series* 2005.
- (117) Lovko, V.J., Vogelbein, W.K., Shields, J.D., Haas, L.W.,and Reece, K.S. A new larval fish bioassay for testing the pathogenicity of *Pfiesteria* spp. (Dinophyceae). *Journal of Phycology* 2003; 39(3):600-9.

- (118) Macauley, J.M., Summers, J.K., Engle, V.D.,and Harwell, L.C. The ecological condition of South Florida estuaries. *Environmental Monitoring and Assessment* 2002; 75(3):253-69.
- (119) Mahoney, K.L., Lohrenz, S.E.,and Kirkpatrick, G.J. Optical properties of *Karenia brevis*. Submitted. *Applied Optics* 2005.
- (120) Mason, P.L., Vogelbein, W.K., Haas, L.W.,and Shields, J.D. An improved stripping technique for lightly armored dinoflagellates. *Journal of Phycology* 2003; 39(1):253-8.
- (121) Mayer FL, Buckler DR, Ellersieck MR, Asfaw A. Acute toxicity value extrapolation with fish and aquatic invertebrates. *Reviews of Environmental Contamination and Toxicology*. In press.
- (122) Millie, D.F., Schofield, O.M.E., Kirkpatrick, G.J., Johnsen, G.,and Evens, T.J. Using absorbance and fluorescence spectra to discriminate microalgae. *European Journal of Phycology* 2002; 37(3):313-22.
- (123) Mount, D.R., Hockett, J.R. Use of toxicity identification evaluation methods to characterize, identify, and confirm hexavalent chromium toxicity in an industrial effluent. *Water Research* 2000; 34(4):1379-85.
- (124) Mount DR, Highland TL, Mattson VR, Dawson TD, Lott KG, Ingersoll CG. Use of the oligochaete, *Lumbriculus variegatus*, as a prey organism for aquatic dietary exposure studies. *Environmental Toxicology and Chemistry*. In press.
- (125) Munns, W.R., Suter, G.W., Damstra, T., Kroes, R., Reiter, L.W.,and Marafante, E. Integrated risk assessment - Results from an international workshop. *Human and Ecological Risk Assessment* 2003; 9(1):379-86.
- (126) Munns, W.R., Kroes, R., Veith, G., Suter, G.W., Damstra, T.,and Waters, M.D. Approaches for integrated risk assessment. *Human and Ecological Risk Assessment* 2003; 9(1):267-72.
- (127) Murrell, M., Hagey, J.D., Lores, E.M.,and Greene, R.M. Relationship between phytoplankton production and nutrient distributions in a subtropical estuary: importance of freshwater flow. Submitted. *Marine Ecology Progress Series* 2005.
- (128) Nagai, T., Yamazaki, H.,and Kamykowski, D. A Lagrangian photoresponse model coupled with 2nd-order turbulence closure. *Marine Ecology-Progress Series* 2003; 265:17-30.
- (129) Norberg-King TJ, Sibley PK, Burton G, Ingersoll CG, Kemble N, Ireland S, Mount DR. Interlaboratory evaluation of *Hyalella azteca* and *Chironomus tetans* short-term and long-term sediment toxicity tests. *Environmental Toxicology and Chemistry*. In press.
- (130) Norton, S.B., Cormier, S.M., Smith, M.,and Jones, R.C. Can biological assessments discriminate among types of stress? A case study from the Eastern Corn Belt Plains ecoregion. *Environmental Toxicology and Chemistry* 2000; 19(4):1113-9.

- (131) Norton, S.B., Cormier, S.M., Smith, M., Jones, R.C.,and Schubauer-Berigan, M. Predicting levels of stress from biological assessment data: Empirical models from the Eastern Corn Belt Plains, Ohio, USA. *Environmental Toxicology and Chemistry* 2002; 21(6):1168-75.
- (132) Norton, S.B., Cormier, S.M.,and Suter, G.N. The easiest person to fool. *Environmental Toxicology and Chemistry* 2002; 21(6):1099-100.
- (133) Norton, S.B., Cormier, S.M., Suter, G.W., Subramanian, B., Lin, E., Altfater, D.,and Counts, B. Determining probable causes of ecological impairment in the Little Scioto River, Ohio, USA: Part 1. Listing candidate causes and analyzing evidence. *Environmental Toxicology and Chemistry* 2002; 21(6):1112-24.
- (134) Norton, S.B., Rao, L., Suter, G.,and Cormier, S.M. Minimizing cognitive errors in site-specific causal assessments. *Human and Ecological Risk Assessment* 2003; 9(1):213-29.
- (135) Oldach, D.W., Delwiche, C.F., Jakobsen, K.S., Tengs, T., Brown, E.G., Kempton, J.W., Schaefer, E.F., Bowers, H.A., Glasgow, H.B., Burkholder, J.M., Steidinger, K.A.,and Rublee, P.A. Heteroduplex mobility assay-guided sequence discovery: Elucidation of the small subunit (18S) rDNA sequences of *Pfiesteria piscicida* and related dinoflagellates from complex algal culture and environmental sample DNA pools. *Proceedings of the National Academy of Sciences of the United States of America* 2000; 97(8):4303-8.
- (136) Orlando, E.F., Davis, W.P.,and Guillette, L.J. Aromatase activity in the ovary and brain of the eastern mosquitofish (*Gambusia holbrooki*) exposed to paper mill effluent. *Environmental Health Perspectives* 2002; 110:429-33.
- (137) Pan YD, Hill BH, Husby P, Hall RK, Kaufmann PR. Multivariate analysis of benthic diatom assemblages in California Central Valley streams (USA). *Hydrobiologia*. In press.
- (138) Pauer, J.J., Taunt, K.W., Melendez, W.,and Kreis, R.G.Jr. Resurrection of the Lake Michigan eutrophication model MIHI. In review. *Journal of Great Lakes Research* 2005.
- (139) Pelletier, M.C., Ho, T.K., Cantwell, M., Kuhn-Hines, A., Jayaraman, S.,and Burgess, R.M. Use of *Ulva lactuca* to identify ammonia toxicity in marine and estuarine sediments. *Environmental Toxicology and Chemistry* 2001; 20(12):2852-9.
- (140) Pollard, A.I., Yuan, L.L. Community-level response patterns: an evaluation of benthic invertebrate assemblage composition in metal pollution in streams. (Accepted for publication). *Ecological Applications* 2005.
- (141) Rakocinski, C.F., Brown, S.S., Gaston, G.R., Heard, R.W., Walker, W.W.,and Summers, J.K. Species-abundance-biomass responses by estuarine macrobenthos to sediment chemical contamination. *Journal of Aquatic Ecosystem Stress and Recovery* 2000; 7(3):201-14.
- (142) Rashleigh, B. Application of AQUATOX, a process-based model for ecological assessment, to Contentnea Creek in North Carolina. *Journal of Freshwater Ecology* 2003; 18(4):515-22.

- (143) Rashleigh, B. Fish assemblage groups in the upper Tennessee River basin. *Southeastern Naturalist* 2004; 3(4):621-36.
- (144) Rashleigh, B. Relation of environmental characteristics to fish assemblages in the Upper French Broad River Basin, North Carolina. *Environmental Monitoring and Assessment* 2004; 93(1-3):139-56.
- (145) Rashleigh, B., Grossman, G.D. An individual-based simulation model for mottled sculpin (*Cottus bairdi*) in a southern Appalachian stream. *Ecological Modelling* 2005; 187(2-3):247-58.
- (146) Richardson, T.L., Pinckney, J.L. Monitoring of the toxic dinoflagellate *Karenia brevis* using gyroxanthin-based detection methods. *Journal of Applied Phycology* 2004; 16(4):315-28.
- (147) Riitters, K.H., Wickham, J.D., O'Neill, R.V., Jones, K.B., Smith, E.R., Coulston, J.W., Wade, T.G.,and Smith, J.H. Fragmentation of continental United States forests. *Ecosystems* 2002; 5(8):815-22.
- (148) Ringbauer JA, James JB, Gentner FJ. Effects of large-scale poultry farms on aquatic microbial communities: a molecular investigation. *Journal of Water and Health*. In press.
- (149) Rossmann, R., Edgington, D.N. Mercury in Green Bay, Lake Michigan surficial sediments collected between 1987 and 1990. *Journal of Great Lakes Research* 2000; 26(3):323-39.
- (150) Rublee, P.A., Kempton, J.W., Schaefer, E.F., Allen, C., Harris, J., Oldach, D.W., Bowers, H., Tengs, T., Burkholder, J.M.,and Glasgow, H.B. Use of molecular probes to assess geographic distribution of *Pfiesteria* species. *Environmental Health Perspectives* 2001; 109:765-7.
- (151) Rust, A.J., Burgess, R.M., Brownawell, B.J.,and McElroy, A.E. Relationship between metabolism and bioaccumulation of benzo[a]pyrene in benthic invertebrates. *Environmental Toxicology and Chemistry* 2004; 23(11):2587-93.
- (152) Rust, A.J., Burgess, R.M., McElroy, A.E., Cantwell, M.G.,and Brownawell, B.J. Influence of soot carbon on the bioaccumulation of sediment-bound polycyclic aromatic hydrocarbons by marine benthic invertebrates: An interspecies comparison. *Environmental Toxicology and Chemistry* 2004; 23(11):2594-603.
- (153) Rust, A.J., Burgess, R.M., McElroy, A.E., Cantwell, M.G.,and Brownawell, B.J. Role of source matrix in the bioavailability of polycyclic aromatic hydrocarbons to deposit-feeding benthic invertebrates. *Environmental Toxicology and Chemistry* 2004; 23(11):2604-10.
- (154) Schiller, A., Hunsaker, C.T., Kane, M.A., Wolfe, A.K., Dale, V.H., Suter, G.W., Russell, C.S., Pion, G., Jensen, M.H.,and Konar, V.C. Communicating ecological indicators to decision makers and the public. *Conservation Ecology* 2001; 5(1):Art 19. <http://www.ecologyandsociety.org/vol5/iss1/art19/>.

- (155) Scott, G.I., Fulton, M.H., Wirth, E.F., Chandler, G.T., Key, P.B., Daugomah, J.W., Bearden, D., Chung, K.W., Strozier, E.D., DeLorenzo, M., Sivertsen, S., Dias, A., Sanders, M., Macauley, J.M., Goodman, L.R., LaCroix, M.W., Thayer, G.W.,and Kucklick, J. Toxicological studies in tropical ecosystems: An ecotoxicological risk assessment of pesticide runoff in South Florida estuarine ecosystems. *Journal of Agricultural and Food Chemistry* 2002; 50(15):4400-8.
- (156) Sekizawa, J., Suter, G., Vermeire, T.,and Munns, W. An example of an integrated approach for health and environmental risk assessment: the case of organotin compounds. *Water Science and Technology* 2000; 42(7-8):305-13.
- (157) Sekizawa, J., Suter, G.,and Birnbaum, L. Integrated human and ecological risk assessment: A case study of tributyltin and triphenyltin compounds. *Human and Ecological Risk Assessment* 2003; 9(1):325-42.
- (158) Sellner, K.G., Doucette, G.J.,and Kirkpatrick, G.J. Harmful algal blooms: causes, impacts and detection. *Journal of Industrial Microbiology & Biotechnology* 2003; 30(7):383-406.
- (159) Serveiss, V.B. Applying ecological risk principles to watershed assessment and management. *Environmental Management* 2002; 29(2):145-54.
- (160) Serveiss, V.B., Bowen, J.L., Dow, D.,and Valiela, I. Using ecological risk assessment to identify the major anthropogenic stressor in the Waquoit Bay Watershed, Cape Cod, Massachusetts. *Environmental Management* 2004; 33(5):730-40.
- (161) Serveiss, V.B., Butcher, J.B., Diamond, J.,and Jones, K.C. Improving the TMDL process using watershed risk assessment principles. *Environmental Management* 2005; 36(1):143-51.
- (162) Silbergeld, E.K., Grattan, L., Oldach, D.,and Morris, J.G. Pfiesteria: Harmful algal blooms as indicators of human: Ecosystem interactions. *Environmental Research* 2000; 82(2):97-105.
- (163) Smayda, T.J. Adaptive ecology, growth strategies and the global bloom expansion of dinoflagellates. *Journal of Oceanography* 2002; 58(2):281-94.
- (164) Smayda, T.J. Turbulence, watermass stratification and harmful algal blooms: an alternative view and frontal zones as "pelagic seed banks". *Harmful Algae* 2002; 1(1):95-112.
- (165) Smayda, T.J., Reynolds, C.S. Strategies of marine dinoflagellate survival and some rules of assembly. *Journal of Sea Research* 2003; 49(2):95-106.
- (166) Smith, E.P., Robinson, T., Field, L.J.,and Norton, S.B. Predicting sediment toxicity using logistic regression: A concentration-addition approach. *Environmental Toxicology and Chemistry* 2003; 22(3):565-75.
- (167) Smith LM, Engle VD, Summers K. Assessing water clarity as a component of water quality in Gulf of Mexico estuaries. *Environmental Monitoring and Assessment*. In press.

- (168) Steevens, J.A., Summers, J.K.,and Benson, W.H. Assessing stressors in coastal ecosystems: An approach to the patient. *Human and Ecological Risk Assessment* 2001; 7(5):1447-55.
- (169) Steidinger, K., Landsberg, J., Richardson, R.W., Truby, E., Blakesley, B., Scott, P., Tester, P., Tengs, T., Mason, P., Morton, S., Seaborn, D., Litaker, W., Reece, K., Oldach, D., Haas, L.,and Vasta, G. Classification and identification of *Pfiesteria* and *Pfiesteria*-like species. *Environmental Health Perspectives* 2001; 109:661-5.
- (170) Stronkhorst, J., Schot, M.E., Dubbeldam, M.C.,and Ho, K.T. A toxicity identification evaluation of silty marine harbor sediments to characterize persistent and non-persistent constituents. *Marine Pollution Bulletin* 2003; 46(1):56-64.
- (171) Stumpf, R.P., Culver, M.E., Tester, P.A., Tomlinson, M., Kirkpatrick, G.J., Pederson, B.A., Truby, E., Ransibrahmanakul, V.,and Soracco, M. Monitoring *Karenia brevis* blooms in the Gulf of Mexico using satellite ocean color imagery and other data. *Harmful Algae* 2003; 2(2):147-60.
- (172) Sullivan, B.E., Andersen, R.A. Salinity tolerances of 62 strains of *Pfiesteria* and *Pfiesteria*-like heterotrophic flagellates (Dinophyceae). *Phycological Research* 2001; 49(3):207-14.
- (173) Summers, J.K. Ecological condition of the estuaries of the Atlantic and Gulf coasts of the United States. *Environmental Toxicology and Chemistry* 2001; 20(1):99-106.
- (174) Summers, K., Robertson, A.,and Levinson, B. Development of the coastal intensive site network (CISNET). *Environmental Monitoring and Assessment* 2000; 64(1):379-90.
- (175) Summers KJ, Harvey JE, Harwell LC. Contaminant levels of total mercury in selected finfish and shellfish in the Atlantic and Gulf of Mexico estuaries of the United States. Transactions of the American Fisheries Society. In press.
- (176) Suter, G.W.II. Focus on exposure-response relationships, and complex forms will come naturally. *BELLE Newsletter* 2001; 10(1):22.
- (177) Suter, G.W.II. Applicability of indicator monitoring to ecological risk assessment. *Ecological Indicators* 2001; 1(2):101-12.
- (178) Suter, G.W.II. Focus on exposure-response relationships, and complex forms will come naturally. *Human & Experimental Toxicology* 2001; 20(10):527-8.
- (179) Suter, G.W.II., Norton, S.B.,and Cormier, S.M. A methodology for inferring the causes of observed impairments in aquatic ecosystems. *Environmental Toxicology and Chemistry* 2002; 21(6):1101-11.
- (180) Suter, G.W.II., Norton, S.B.,and Barnthouse, L.W. The evolution of frameworks for ecological risk assessment from the Red Book ancestor. *Human and Ecological Risk Assessment* 2003; 9(5):1349-60.

- (181) Suter, G.W.II., Munns, W.R.,and Sekizawa, J. Types of integration in risk assessment and management, and why they are needed. *Human and Ecological Risk Assessment* 2003; 9(1):273-9.
- (182) Suter, G.W.II., Vermeire, T., Munns, W.R.,and Sekizawa, J. Framework for the integration of health and ecological risk assessment. *Human and Ecological Risk Assessment* 2003; 9(1):281-301.
- (183) Suter, G.W.II., Rodier, D.J., Schwenk, S., Troyer, M.E., Tyler, P.L., Urban, D.J., Wellman, M.C.,and Wharton, S. The US Environmental Protection Agency's generic ecological assessment endpoints. *Human and Ecological Risk Assessment* 2004; 10(6):967-81.
- (184) Suter, G.W.II. Bottom-up and top-down integration of human and ecological risk assessment. *Journal of Toxicology and Environmental Health-Part A-Current Issues* 2004; 67(8-10):779-90.
- (185) Suter, G.W.II., Norton, S.B.,and Fairbrother, A. Individuals versus organism versus populations in the definition of assessment endpoints. *Integrated Environmental Assessment and Management* 2005; 1(4):397-400.
- (186) Sutton, T.M., Cyterski, M.J., Ney, J.J.,and Duval, M.C. Determination of factors influencing stomach content retention by striped bass captured using gillnets. *Journal of Fish Biology* 2004; 64(4):903-10.
- (187) Tengs, T., Bowers, H.A., Ziman, A.P., Stoecker, D.K.,and Oldach, D.W. Genetic polymorphism in *Gymnodinium galatheanum* chloroplast DNA sequences and development of a molecular detection assay. *Molecular Ecology* 2001; 10(2):515-23.
- (188) Tengs, T., Bowers, H.A., Glasgow, H.B., Burkholder, J.M.,and Oldach, D.W. Identical ribosomal DNA sequence data from *Pfiesteria piscicida* (Dinophyceae) isolates with different toxicity phenotypes. *Environmental Research* 2003; 93(1):88-91.
- (189) Tomlinson, M.C., Stumpf, R.P., Ransibrahmanakul, V., Truby, E.W., Kirkpatrick, G.J., Pederson, B.A., Vargo, G.A.,and Heil, C.A. Evaluation of the use of SeaWiFS imagery for detecting *Karenia brevis* harmful algal blooms in the eastern Gulf of Mexico. *Remote Sensing of Environment* 2004; 91(3-4):293-303.
- (190) Troyer, M.E. A spatial approach for integrating and analyzing indicators of ecological and human condition. *Ecological Indicators* 2002; 2(1-2):211-20.
- (191) Tuberty, S.R., McKenny, C.L.Jr., Zhong, H., Nates, S.F.,and Hoglund, M.D. Effects of the insect juvenile hormone agonist methoprene on female growth and reproduction in the Gulf sand fiddler crab, *Uca panacea* (Novak and Salmon 1974). *Marine Environmental Research* 2005.
- (192) Vinturella, A.E., Burgess, R.M., Coull, B.A., Thompson, K.M.,and Shine, J.P. Importance of black carbon in distribution and bioaccumulation models of polycyclic aromatic hydrocarbons in contaminated marine sediments. *Environmental Toxicology and Chemistry* 2004; 23(11):2578-86.

- (193) Vinturella, A.E., Burgess, R.M., Coull, B.A., Thompson, K.M.,and Shine, J.P. Use of passive samplers to mimic uptake of polycyclic aromatic hydrocarbons by benthic polychaetes. *Environmental Science & Technology* 2004; 38(4):1154-60.
- (194) Vogelbein, W.K., Shields, J.D., Haas, L.W., Reece, K.S.,and Zwerner, D.E. Skin ulcers in estuarine fishes: A comparative pathological evaluation of wild and laboratory-exposed fish. *Environmental Health Perspectives* 2001; 109:687-93.
- (195) Vogelbein, W.K., Lovko, V.J., Shields, J.D., Reece, K.S., Mason, P.L., Haas, L.W.,and Walker, C.C. *Pfiesteria shumwayae* kills fish by micropredation not exotoxin secretion. *Nature* 2002; 418(6901):967-70.
- (196) Voparil, I.M., Burgess, R.M., Mayer, L.M., Tien, R., Cantwell, M.G.,and Ryba, S.A. Digestive bioavailability to a deposit feeder (*Arenicola marina*) of polycyclic aromatic hydrocarbons associated with anthropogenic particles. *Environmental Toxicology and Chemistry* 2004; 23(11):2618-26.
- (197) Wackernagel, M., Yount, J.D. Footprints for sustainability: the next steps. *Environment, Development and Sustainability* 2000; 2:21-42.
- (198) Walsh, J.J., Penta, B., Dieterle, D.A.,and Bissett, W.P. Predictive ecological modeling of harmful algal blooms. *Human and Ecological Risk Assessment* 2001; 7(5):1369-83.
- (199) Walsh, J.J., Steidinger, K.A. Saharan dust and Florida red tides: The cyanophyte connection. *Journal of Geophysical Research-Oceans* 2001; 106(C6):11597-612.
- (200) Walsh, J.J., Haddad, K.D., Dieterle, D.A., Weisberg, R.H., Li, Z.J., Yang, H.J., Muller-Karger, F.E., Heil, C.A.,and Bissett, W.P. A numerical analysis of landfall of the 1979 red tide of *Karenia brevis* along the west coast of Florida. *Continental Shelf Research* 2002; 22(1):15-38.
- (201) Walsh, J.J., Weisberg, R.H., Dieterle, D.A., He, R.Y., Darrow, B.P., Jolliff, J.K., Lester, K.M., Vargo, G.A., Kirkpatrick, G.J., Fanning, K.A., Sutton, T.T., Jochens, A.E., Biggs, D.C., Nababan, B., Hu, C.M.,and Muller-Karger, F.E. Phytoplankton response to intrusions of slope water on the West Florida Shelf: Models and observations. *Journal of Geophysical Research-Oceans* 2003; 108(C6).
- (202) Weisberg, R.H., He, R.Y., Kirkpatrick, G.J., Muller-Karger, F.E.,and Walsh, J.J. Coastal ocean circulation influences on remotely sensed optical properties: a west Florida shelf case study. *Oceanography* 2004; 17(June):68-75.
- (203) Weisberg, S.B., Wilson, H.T., Heimbuch, D.G., Windom, H.L.,and Summers, J.K. Comparison of sediment metal : aluminum relationships between the eastern and gulf coasts of the United States. *Environmental Monitoring and Assessment* 2000; 61(3):373-85.
- (204) West, C.W., Kosian, P.A., Mount, D.R., Makynen, E.A., Pasha, M.S., Sibley, P.K.,and Ankley, G.T. Amendment of sediments with a carbonaceous resin reduces bioavailability of polycyclic aromatic hydrocarbons. *Environmental Toxicology and Chemistry* 2001; 20(5):1104-11.

- (205) Wickham, J.D., O'Neill, R.V., Riitters, K.H., Smith, E.R., Wade, T.G., and Jones, K.B. Geographic targeting of increases in nutrient export due to future urbanization. *Ecological Applications* 2002; 12(1):93-106.
- (206) Wickham, J.D., Wade, T.G., Riitters, K.H., O'Neill, R.V., Smith, J.H., Smith, E.R., Jones, K.B., and Neale, A.C. Upstream-to-downstream changes in nutrient export risk. *Landscape Ecology* 2003; 18(2):195-208.
- (207) Wickham, J.D., Stehman, S.V., Smith, J.H., Wade, T.G., and Yang, L. A priori evaluation of two-stage cluster sampling for accuracy assessment of large-area land-cover maps. *International Journal of Remote Sensing* 2004; 25(6):1235-52.
- (208) Yamazaki, A.K., Kamykowski, D. A dinoflagellate adaptive behavior model: response to internal biochemical cues. *Ecological Modelling* 2000; 134(1):59-72.
- (209) Yentsch, C.S., Yentsch, C.M., Phinney, D.A., Lapointe, B.E., and Yentsch, S.F.W. The odyssey of new production. *Journal of Experimental Marine Biology and Ecology* 2004; 300(1-2):15-30.
- (210) Yuan, L.L., Norton, S.B. Comparing responses of macroinvertebrate metrics to increasing stress. *Journal of the North American Benthological Society* 2003; 22(2):308-22.
- (211) Yuan, L.L. Using spatial interpolation to estimate stressor levels in unsampled streams. *Environmental Monitoring and Assessment* 2004; 94(1-3):23-38.
- (212) Yuan, L.L. Assigning macroinvertebrate tolerance classifications using generalised additive models. *Freshwater Biology* 2004; 49(5):662-77.
- (213) Yuan, L.L., Norton, S.B. Assessing the relative severity of stressors at a watershed scale. *Environmental Monitoring and Assessment* 2004; 98(1-3):323-49.
- (214) Yuan, L.L. Sources of bias in weighted average inferences of environmental conditions. *Journal of Paleolimnology* 2005; 34(2):245-55.
- (215) Yue, S., Pilon, P. A comparison of the power of the t test, Mann-Kendall and bootstrap tests for trend detection. *Hydrological Sciences Journal-Journal des Sciences Hydrologiques* 2004; 49(1):21-37.

Long Term Goal 2

Books and Book Chapters

- (1) Ecological Assessment of Aquatic Resources: Linking Science to Decision-Making. 2004. Barbour, M., Norton, S.B., Preston, R. and Thornton, K. eds. SETAC Press, Pensacola, FL.
- (2) Adams, C. and Larkin, S. 2005. Economic consequences of red tide. A Conference on America's Beaches: Current Issues in Beach Management, Tourism, and the Coastal Environment. Florida International University, International Hurricane Research Center (HRC). Miami, FL. Mar. 2-4, 2005. 16 pp
- (3) Adams, C., Larkin, S.L. Morgan, K. 2005. Red tides and coastal business: measuring economic consequences in Florida. Proceedings of the 14th Biennial Coastal Zone Conference, NOAA Coastal Services Center. New Orleans, LA. July 17-21, 2005. p.41
- (4) Adams, W., Green, A., Ahlf, W., Brown, B., Burton, A., Chadwick, B., Crane, M., Gouget, R., Ho, K.T., Hogstrand, C., Reynoldson, T., Ringwood, A.H., Savitz, J.D. Sibley, P.K. 2005. Using sediment assessment tools and a weight-of-evidence approach in use of sediment quality guidelines and related tools for the assessment of contaminated sediments. In: Wenning, R.J., Bately, G.E., Ingersoll, C.G. and Moore, D.W. eds. **Use of Sediment Quality Guidelines & Related Tools for the Assessment of Contaminated Sediments**. SETAC Press, Pensacola, FL.
- (5) Barbour, M., Norton, S.B., Preston, R. Thornton, K. 2004. Laying the Foundation for Effective Ecological Assessments. In: Barbour, M., Norton, S.B., Preston, R. and Thornton, K. eds. Ecological Assessment of Aquatic Resources: Linking Science to Decision Making. Chapter 1. SETAC Press, Pensacola, FL.
- (6) Bately, G.E., Stahl, R.G., Bott, T.L., Babut, M.P., Clark, J.R., Field, L.J., Ho, K.T., Mount, D.R., Swartz, R.C. Tessier, A. 2005. Scientific underpinning of sediment quality guidelines. In: Wenning, R.J., Bately, G.E., Ingersoll, C.G. and Moore, D.W. eds. **Use of Sediment Quality Guidelines & Related Tools for the Assessment of Contaminated Sediments**. SETAC Press, Pensacola, FL.
- (7) Berg, B.A., Pederson, B.A., Kirkpatrick, G.J., Higham, C.J. Millie, D.F. 2004. Uitlity of the algal photopigment Gyroxanthin-dieste in studies pertaining to the red tide dinoflagellate *Karenia brevis* (Davis) G. Hansen and Moestrup. In: Steidinger, K.A., Landsberg, J.H., Tomas, C.R. and Vargo, G.A. eds. Harmful Algae 2002: Proceedings of the Xth International Conference on Harmful Algae. Florida Fish and Wildlife Conservation Commission and Intergovernmental Oceaographic Commission of UNESCO, St. Pete Beach, FL. Oct. 21-25, 2002. 276-278
- (8) Bower, H.A., Tengs, T., Herrmann, M. Oldach, D. 2001. Real-time PCR monitoring of estuarine water samples for *Pfiesteria piscicida*, a dinoflagellate associated with fish kills and human illness. In: Wittwer, C., Hahn, M. and Kaul, K. eds. **Rapid Cycle Real-Time PCR: Methods and Applications**. Springer-Verlag, Heidelberg.
- (9) Bowers, H., Tengs, T., Goto, S., Tomas, C., Ono, C., Yoshimatsu, S. Oldach, D. 2004. Development of real-time PCR assays for the detection of *Chattonella* species in culture and environmental samples. In: Steidinger, K.A., Landsberg, J.H., Tomas, C.R. and

- Vargo, G.A. eds. Harmful Algae 2002: Proceedings of the Xth International Conference on Harmful Algae. Florida Fish and Wildlife Conservation Commission and Intergovernmental Oceaographic Commission of UNESCO, St. Pete Beach, FL. Oct. 21-25, 2002. 231-233
- (10) Brown, B., Detenbeck, N.E. Eskin, R. 2005. How probability survey data can help integrate 305(b) and 303(d) monitoring and assessment of state waters. EMAP Symposium 2002: The Condition of Our Nation's Inland Waters: From the Streams to the Great Rivers, Kansas City, MO. May 5-7, 2002.
- (11) Burgess, R.M. 2005. Ammonia. In: Lehr, J.H. and Keeley, J. eds. Water Encyclopedia: Oceanography; Meteorology; Physics and Chemistry; Water Law; and Water History, Art, and Culture. Volume Four of Water Encyclopedia, 5 Volume Set. Wiley & Sons, New York, NY.
- (12) Burton, G.A.Jr., Dyer, S.D., Cormier, S.M., Suter, G.W.II. Dorward-King, E.J. 2001. Identifying watershed stressors using database evaluations linked with field and laboratory studies: A case example. In: Baird, D.J. and Burton, G.A.Jr. eds. Ecological Variability: Separating Natural from Anthropogenic Causes of Ecosystem Impairment. SETAC Press, Pensacola, FL. 233-253
- (13) Campbell, L., Ivy, J.M., Loret, P., Villareal, T.A., Soltysiak, K.A. Gold, J.R. 2004. Linking population adnphysiological diversity in *Karenia brevis* from Texas coast. In: Steidinger, K.A., Landsberg, J.H., Tomas, C.R. and Vargo, G.A. eds. Harmful Algae 2002: Proceedings of the Xth International Conference on Harmful Algae. Florida Fish and Wildlife Conservation Commission and Intergovernmental Oceaographic Commission of UNESCO, St. Pete Beach, FL. Oct. 21-25, 2002.
- (14) Cannizzaro, J.P., Carder, K.L., Chen, F.R., Walsh, J.J., Lee, Z. Heil, C. 2004. A novel optical classification technique for detection of red tides in the Gulf of Mexico. In: Steidinger, K.A., Landsberg, J.H., Tomas, C.R. and Vargo, G.A. eds. Harmful Algae 2002: Proceedings of the Xth International Conference on Harmful Algae. Florida Fish and Wildlife Conservation Commission and Intergovernmental Oceaographic Commission of UNESCO, St. Pete Beach, FL. Oct. 21-25, 2002. 282-284
- (15) Chapman, P.M., Birge, W.J., Burgess, R.M., Clements, W.H., Douglas, W.S., Harrass, M.C., Hogstrand, C., Reible, D.D. Ringwood, A.H. 2005. Role of sediment quality guidelines and other tools in different aquatic habitats. In: Wenning, R.J., Batley, G.E., Ingersoll, C.G. and Moore, D.W. eds. Use of Sediment Quality Guidelines and Related Tools for the Assessment of Contaminated Sediments. SETAC Press, Pensacola, FL. 267-309
- (16) Chapman, P.M., Birge, W.J., Burgess, R.M., Clements, W.H., Douglas, W.S., Harrass, M.C., Hogstrand, C., Reible, D.D. Ringwood, A.H. 2005. Uncertainties in assessments of complex sediment systems. In: Wenning, R.J., Batley, G.E., Ingersoll, C.G. and Moore, D.W. eds. Use of Sediment Quality Guidelines and Related Tools for the Assessment of Contaminated Sediments. SETAC Press, Pensacola, FL. 687-744
- (17) Detenbeck, N.E., Moffett, M.F., Pearson, M.S., Simon, T.P. Albert, D. 2005. Flow- and nutrient-based classification of Lake Michigan coastal riverine wetlands of the Laurentian Great Lakes. In: Simon, T.P., Stewart, P.M., Munawar, M. and Edsall, T.A. eds. Coastal

- Wetlands of the Laurentian Great Lakes: Health, Habitat, and Indicators. CRC Press, Boca Raton, FL. In press.
- (18) DiToro, D.M., Berry, W.J., Burgess, R.M., Mount, D.R., O'Connor, T. Swartz, R.C. 2005. Predictive ability of sediment quality guidelines derived using equilibrium partitioning. In: Wenning, R.J., Batley, G.E., Ingersoll, C.G. and Moore, D.W. eds. Use of Sediment Quality Guidelines and Related Tools for the Assessment of Contaminated Sediments. SETAC Press, Pensacola, FL. 557-587
- (19) Dorward-King, E.J., Suter, G.W.II., Kaputska, L.A., Mount, D.R., Reed-Judkins, D.K., Cormier, S.M., Dyer, S.D., Luxon, M.G., Parrish, R. Burton, G.A.J. 2001. Distinguishing among factors that influence ecosystems. In: Baird, D.J. and Burton, G.A.J. eds. Ecological Variability: Separating Natural from Anthropogenic Causes of Ecosystem Impairment. SETAC Press, Pensacola, FL. 1-26
- (20) Faust, M.A. and Tester, P.A. 2004. Harmful dinoflagellates in the Gulf Stream and Atlantic Barrier Coral Reef, Belize. In: Steidinger, K.A., Landsberg, J.H., Tomas, C.R. and Vargo, G.A. eds. Harmful Algae 2002: Proceedings of the Xth International Conference on Harmful Algae. Florida Fish and Wildlife Conservation Commission and Intergovernmental Oceanographic Commission of UNESCO, St. Pete Beach, FL. Oct. 21-25, 2002. 326-328
- (21) Gilbert, P.M., Alexander, J., Trice, T.M., Michael, B., Magnien, R.E., Lane, L., Oldach, D. Bowers, H. 2004. Chronic urea nitrogen loading: a correlate of *Pfiesteria* spp. in the Chesapeake and coastal bays of Maryland, USA. In: Steidinger, K.A., Landsberg, J.H., Tomas, C.R. and Vargo, G.A. eds. Harmful Algae 2002: Proceedings of the Xth International Conference on Harmful Algae. Florida Fish and Wildlife Conservation Commission and Intergovernmental Oceanographic Commission of UNESCO, St. Pete Beach, FL. Oct. 21-25, 2002. 74-76
- (22) Havens, J.J., Heil, C.A., Hollander, D., Vargo, G.A., Ault, D., Murasko, S. Walsh, J.J. 2004. Isotopic constraints on nutrient sources supporting the 2001 *Karenia brevis* bloom. In: Steidinger, K.A., Landsberg, J.H., Tomas, C.R. and Vargo, G.A. eds. Harmful Algae 2002: Proceedings of the Xth International Conference on Harmful Algae. Florida Fish and Wildlife Conservation Commission and Intergovernmental Oceanographic Commission of UNESCO, St. Pete Beach, FL. Oct. 21-25, 2002. 32-34
- (23) Heil, C., Vargo, G.A., Spence, D.N., Neely, M.B., Merkt, R., Lester, K.M. Walsh, J.J. 2001. Nutrient stoichiometry of a *Gymnodinium breve* bloom: what limits blooms in oligotrophic environments? In: Hallegraeff, G.M., Blackburn, S.I., Bolch, C.J. and Lewis, R.J. eds. Harmful Algal Blooms 2000: Proceedings of the Ninth International Conference on Harmful Algal Blooms. Hobart, Australia, Feb. 7-11, 2000. Intergovernmental Oceanographic Commission of UNESCO, Paris, France. 165-168
- (24) Higham, C.J., Kirkpatrick, G.J., Pederson, B.A. Berg, B.A. 2004. Photopigment content of three *Karenia brevis* clones in response to varying light. In: Steidinger, K.A., Landsberg, J.H., Tomas, C.R. and Vargo, G.A. eds. Harmful Algae 2002: Proceedings of the Xth International Conference on Harmful Algae. Florida Fish and Wildlife Conservation Commission and Intergovernmental Oceanographic Commission of UNESCO, St. Pete Beach, FL. Oct. 21-25, 2002. 417-419

- (25) Ireland, D.S. and Ho, K.T. 2005. Toxicity tests for sediment quality assessments. In: den Besten, P.J. and Munawar, M. eds. Ecotoxicological Testing of Marine and Freshwater Ecosystems: Emerging Techniques, Trends, and Strategies. Chapter 1. CRC Press, Boca Raton, FL. 1-42. Ecovision World Monograph.
- (26) Jordan, S.J. and Smith, L.M. 2004. Indicators of ecosystem integrity for estuaries. In: Bortone, S.A. ed. Estuarine Indicators. Chapter 30. CRC Press, Boca Raton, FL. 467-480
- (27) Kerfoot, J., Kirkpatrick, G.J., Lohrenz, S., Mahoney, K., Moline, M. Schofield, O. 2004. Vertical migration of a *Karenia brevis* bloom: Implications for remote sensing of harmful algal blooms. In: Steidinger, K.A., Landsberg, J.H., Tomas, C.R. and Vargo, G.A. eds. Harmful Algae 2002: Proceedings of the Xth International Conference on Harmful Algae. Florida Fish and Wildlife Conservation Commission and Intergovernmental Oceanographic Commission of UNESCO, St. Pete Beach, FL. Oct. 21-25, 2002. 279-281
- (28) Lapointe, B.E., Barile, P.J., Rankin, K.L. Yentsch, C.S. 2003. The physiology and ecology of macroalgal bloom (green tides) on coral reefs off northern Palm Beach County, Florida (USA). Second Symposium on Harmful Marine Algae in the U.S., Dec. 8-13, 2003, Woods Hole, MA. p.29
- (29) Larkin, S., Adams, C. Morgan, K. 2005. Public awareness of red tide effects and response to blooms. Proceedings of the 14th Biennial Coastal Zone Conference, NOAA Coastal Services Center. New Orleans, LA. July 17-21, 2005. p.50
- (30) Lester, K.M., Merkt, R., Heil, C.A., Vargo, G.A., Neely, M.B., Spence, D.N., Melahan, L. Walsh, J.J. 2001. Evolution of a *Gymnodinium breve* (Gymnodiniales, Dinophyceae) red tide bloom on the West Florida shelf: relationship with organic nitrogen and phosphorus. In: Hallegraeff, G.M., Blackburn, S.I., Bolch, C.J. and Lewis, R.J. eds. Harmful Algal Blooms 2000: Proceedings of the Ninth International Conference on Harmful Algal Blooms. Hobart, Australia, Feb. 7-11, 2000. Intergovernmental Oceanographic Commission of UNESCO, Paris, France. 161-164
- (31) Lewis, M.A. 2004. Sediment habitat assessment for targeted near-coastal areas. In: Bortone, S.A. ed. Estuarine Indicators. Chapter 7. CRC Press, Boca Raton, FL. 79-98
- (32) Lewis, M.A. and Devereuz, R. 2005. The role of toxic chemicals in seagrass declines: a review. In press. Environmental Requirements for Seagrasses.
- (33) Myers, M.S. and Fournie, J.W. 2002. Histopathological biomarkers as integrators of anthropogenic and environmental stressors. In: Adams, S.M. ed. Biological Indicators of Aquatic Ecosystem Stress. American Fisheries Society, Bethesda, MD. 221-287
- (34) Nipper, M., Burton, G.A.Jr., Chapman, D., Doe, K.G., Hamer, M. Ho, K.T. 2003. Issues and recommendations for porewater toxicity testing: methodological uncertainties, confounding factors and toxicity identification evaluation procedures. In: Carr, R.S. and Nipper, M. eds. Porewater Toxicity Testing: Biological, Chemical, and Ecological Considerations. Chapter 7. SETAC Press, Pensacola, FL. 143-162
- (35) Norton, S.B., Boon, P.J., Gerould, S., Hall, T., Lubinski, K. Verdonschot, P. 2004. Formulating Effective Assessment Questions. In: Barbour, M., Norton, S.B., Preston, R.

- and Thornton, K. eds. Ecological Assessment of Aquatic Resources: Linking Science to Decision Making. Chapter 2. SETAC Press, Pensacola, FL.
- (36) Norton, S.B., Barbour, M. Thornton, K. 2004. Injecting Ecological Knowledge into the Decision-Making Process. In: Barbour, M., Norton, S.B., Preston, R. and Thornton, K. eds. Ecological Assessment of Aquatic Resources: Linking Science to Decision Making. Chapter 8. SETAC Press, Pensacola, FL.
- (37) Norton, S.B., Cormier, S.M., and Suter, G.W.II. 2005. CADDIS: A System to Help Investigators Determine the Causes of Biological Impairments in Aquatic Systems. Proceedings of the TMDL 2005 Conference, Philadelphia, PA. June 25-27. Water Environment Federation, Alexandria, VA
- (38) Posthuma, L., Traas, T.P. Suter, G.W.II. 2001. General introduction to species sensitivity distributions. In: Postuma, L., Suter, G.W.II. and Traas, T.P. eds. Species Sensitivity Distributions in Ecotoxicology. Lewis Pub., Boca Raton, FL. 3-10
- (39) Posthuma, L., Traas, T.P., de Zwart, D. Suter, G.W.II. 2001. Conceptual and technical outlook on species sensitivity distributions. In: Postuma, L., Suter, G.W.II. and Traas, T.P. eds. Species Sensitivity Distributions in Ecotoxicology. Lewis Pub., Boca Raton, FL. 475-508
- (40) Schaeffer, B.A., Kamykowski, D., Milligan, E.J. McKay, L. 2004. Photosynthetic variation among eight different *Karenia brevis* clones. In: Steidinger, K.A., Landsberg, J.H., Tomas, C.R. and Vargo, G.A. eds. Harmful Algae 2002: Proceedings of the Xth International Conference on Harmful Algae. Florida Fish and Wildlife Conservation Commission and Intergovernmental Oceaographic Commission of UNESCO, St. Pete Beach, FL. Oct. 21-25, 2002.
- (41) Snyder, R.A., Lewis, M.A., Nocker, A. Lepo, J.E. 2004. Microbial biofilms as integrative sensors of environmental quality. In: Bortone, S.A. ed. Estuarine Indicators. Chapter 9. CRC Press, Boca Raton, FL. 111-126
- (42) Suter, G.W.II. and Barnhouse, L.W. 2000. Modeling toxic effects on populations: Experience from aquatic studies. In: Albers, P., Heinz, G. and Ohlendorf, H.M. eds. Environmental Contaminants and Terrestrial Vertebrates: Effects on Populations, Communities, and Ecosystems. SETAC Press, Pensacola, FL. 177-188
- (43) Suter, G.W.II. 2001. North American history of species sensitivity distributions. In: Postuma, L., Suter, G.W.II. and Traas, T.P. eds. Species Sensitivity Distributions in Ecotoxicology. Lewis Pub., Boca Raton, FL. 11-17
- (44) Suter, G.W.II., Traas, T.P. Posthuma, L. 2001. Issues and practices in the derivation and use of species sensitivity distributions. In: Postuma, L., Suter, G.W.II. and Traas, T.P. eds. Species Sensitivity Distributions in Ecotoxicology. Lewis Pub., Boca Raton, FL. 437-474
- (45) Tester, P.A., Wiles, K., Varnam, S.M. Ortega, G.V. 2004. Harmful algae blooms in the western Gulf of Mexico: *Karenia brevis* is messin' with Texas and Mexico. In: Steidinger, K.A., Landsberg, J.H., Tomas, C.R. and Vargo, G.A. eds. Harmful Algae 2002: Proceedings of the Xth International Conference on Harmful Algae. Florida Fish

- and Wildlife Conservation Commission and Intergovernmental Oceaographic Commission of UNESCO, St. Pete Beach, FL. Oct. 21-25, 2002. 41-43
- (46) Vargo, G.A., Heil, C.A., Spence, D.N., Neely, M.B., Merkt, R., Lester, K.M., Weisberg, R.H., Walsh, J.J. Fanning, K.A. 2001. The hydrographic regime, nutrient requirements, and transport of a *Gymnodinium breve* Davis red tide on the West Florida shelf. In: Hallegraeff, G.M., Blackburn, S.I., Bolch, C.J. and Lewis, R.J. eds. Harmful Algal Blooms 2000: Proceedings of the Ninth International Conference on Harmful Algal Blooms. Hobart, Australia, Feb. 7-11, 2000. Intergovernmental Oceanographic Commission of UNESCO, Paris, France. 157-160
- (47) Vargo, G.A., Heil, C.A., Ault, D.N., Neely, M.B., Murasko, S., Havens, J.J., Lester, K.M., Dixon, K., Merkt, R., Walsh, J.J., Weisberg, R.H. Steidinger, K.A. 2004. Four *Karenia brevis* blooms: a comparative analysis. In: Steidinger, K.A., Landsberg, J.H., Tomas, C.R. and Vargo, G.A. eds. Harmful Algae 2002: Proceedings of the Xth International Conference on Harmful Algae. Florida Fish and Wildlife Conservation Commission and Intergovernmental Oceaographic Commission of UNESCO, St. Pete Beach, FL. Oct. 21-25, 2002. 14-16
- (48) Waller, T.W., Bailey, H.C., Hunt, J.W., Ho, K., Miller, J.L., Rowland, C., Pillard, D. de Vlaming, V. 2005. Ambient water, porewater and sediment. In: Norberg-King, T.J., Ausley, L.W., Burton, D.T., Goodfellow, W.L., Miller, J.L. and Waller, W.T. eds. Toxicity Reduction and Toxicity Identification Evaluations for Effluents, Ambient Waters, and Other Aqueous Media. SETAC Press, Pensacola, FL.
- (49) Walsh, J.J. 2001. Regional and shelf sea models. In: Steele, J.H., Thorpe, S. and Turekian, K. eds. Encyclopedia of Ocean Sciences. Academic Press, London, UK. 2399-2408
- (50) Walsh, J.J. and Steidinger, K.A. 2004. ECOHAB: Florida. In: Steidinger, K.A., Landsberg, J.H., Tomas, C.R. and Vargo, G.A. eds. Harmful Algae 2002: Proceedings of the Xth International Conference on Harmful Algae. Florida Fish and Wildlife Conservation Commission and Intergovernmental Oceaographic Commission of UNESCO, St. Pete Beach, FL. Oct. 21-25, 2002. 543-545
- (51) Walsh, J.J., Dieterle, D.A., Darrow, B.P., Milroy, S.P., Jolliff, J.K., Lenes, J.M., Weisberg, R.H. He, R. 2004. Coupled biophysical models of Florida red tides. In: Steidinger, K.A., Landsberg, J.H., Tomas, C.R. and Vargo, G.A. eds. Harmful Algae 2002: Proceedings of the Xth International Conference on Harmful Algae. Florida Fish and Wildlife Conservation Commission and Intergovernmental Oceaographic Commission of UNESCO, St. Pete Beach, FL. Oct. 21-25, 2002. 519-521
- (52) Yamazaki, A.K. and Kamykowski, D. 2003. Modeling planktonic behavior as a complex adaptive system. In: Seuront, L. and Strutton, P.G. eds. Handbook of Scaling Methods in Aquatic Ecology: Measurement, Analysis, Simulation. CRC Press, Boca Raton, FL. 543-557

Long Term Goal 2

EPA Reports

- (1) Benson, W.H. and Summers, J.K. 2002. The ecological condition of estuaries: a focus on the Atlantic Ocean and Gulf of Mexico coasts of the United States. EPA/600/R-02/097 URL: http://www.epa.gov/athens/publications/reports/EPA_600_R02_097.pdf. In: Thurston, R.V. ed. Fish Physiology, Toxicology, and Water Quality: Proceedings of the Sixth International Symposium, La Paz B.C.S. Mexico, January 22-26, 2001. U.S. EPA, Office of Research and Development, National Exposure Research Laboratory, Research Triangle Park, NC. 297-310
- (2) Burgess, R.M., Lewis, M., Chancy, C., Kurtz, M., Campbell, D., Norberg-King, T.J., Detenbeck, N.E., Pelletier, P., Engle, V., Perez, K., Hill, B., Smith, L., Ho, K. Snarski, V. 2004. Classification Framework for Coastal Systems. EPA/600/R-04/061 URL: http://www.epa.gov/medatwrk/Prods_Pubs/classification_framework.pdf. U.S. EPA, Office of Research and Development, National Health and Environmental Effects Research Laboratory, Washington, DC. 85 pp.
- (3) Detenbeck, N.E. 2001. Wetlands classification module. In: Methods for Evaluating Wetland Condition, Joint effort of USEPA Biological Assessment of Wetlands Workgroup and USEPA Wetland Nutrient Criteria Workgroup. EPA/822/R-01/007g.1-36
- (4) Hansen, D.J., DiToro, D.M., Berry, W.J., Boothman, W.S., Burgess, R.M., Ankley, G.T., Mount, D.R., McGrath, J.A., DeRosa, L.D., Bell, H.E., Reiley, M.C. Zarba, C.S. 2002. Procedures for the Derivation of Equilibrium Partitioning Sediment Benchmarks (ESBs) for the Protection of Benthic Organisms: Metal Mixtures (Cadmium, Copper, Lead, Nickel, Silver and Zinc. EPA-600-R-02-011 URL: http://www.epa.gov/nhrlsup1/publications/files/metalsESB_022405.pdf. U.S. EPA, Office of Research and Development, National Health and Environmental Effects Research Laboratory, Washington, DC. 121 pp.
- (5) Schubauer-Berigan, J.P., Bruins, R.F., Serveiss, V.B., Little, J., and Eskew, D.L. 2000. Gathering Information for Watershed Ecological Risk Assessments: A Review of Ten Watershed Assessments. U.S. EPA, National Center for Environmental Assessment, Office of Research and Development. Cincinnati, OH. September, 2000. EPA/600/R-00/106, NCEA-C-0847, NTIS PB2002-102515
- (6) Serveiss, V.B., Norton, S.B., and Norton, D.J. 2000. Watershed Ecological Risk Assessment. U.S. EPA, The Watershed Academy. Washington, DC.; online training module at <http://www.epa.gov/owow/watershed/wacademy/acad2000/ecorisk>
- (7) U.S.Environmental Protection Agency. 2000. The Stressor Identification Technical Guidance Document. U.S. EPA, Office of Research and Development, Office of Water. Washington, DC. EPA/822/B00/025
- (8) U.S.Environmental Protection Agency. 2000. Report on the Watershed Ecological Risk Characterization Workshop. U.S. EPA, Office of Research and Development. Washington, DC. EPA/600/R99/111

- (9) U.S.Environmental Protection Agency. 2001. Office of Research and Development Strategic Plan. U.S. EPA, Office of Research and Development. Washington, DC. EPA/600/R-01/003.
- (10) U.S.Environmental Protection Agency. 2001. Ecological Risk Assessment for the Middle Snake River, Idaho. U.S. EPA, Office of Research and Development, National Center for Environmental Assessment. Washington, DC. EPA/600/R01/017
- (11) U.S.Environmental Protection Agency. 2002. Waquoit Bay Watershed Ecological Risk Assessment: The Effect of Land-Derived Nitrogen Loads on Estuarine Eutrophication. U.S. EPA, Office of Research and Development, National Center for Environmental Assessment. Washington, DC. EPA/600/R02/079
- (12) U.S.Environmental Protection Agency. 2002. Clinch and Powell Valley Watershed Ecological Risk Assessment. U.S. EPA, Office of Research and Development, National Center for Environmental Assessment. Washington, DC. EPA/600/R01/050
- (13) U.S.Environmental Protection Agency. 2003. Generic Ecological Assessment Endpoints (GEAEs) for Ecological Risk Assessment. U.S. EPA, Risk Assessment Forum. Washington, DC. EPA/630/P-02/004F.
- (14) U.S.Environmental Protection Agency. 2003. WV REMAP Final Report: Watershed classification framework for the State of West Virginia. EPA/600/R-03/141. Detenbeck, N.E., Jagger, L., Stark, S.L. and Starry, M. eds. U.S. EPA, Office of Research and Development, National Health and Environmental Effects Research Laboratory, Mid-Continent Ecology Division Report, Washington, DC.
- (15) U.S.Environmental Protection Agency. 2003. Procedures for the Derivation of Equilibrium Partitioning Sediment Benchmarks (ESBs) for the Protection of Benthic Organisms: PAH Mixtures. EPA/600/R-02/013 URL:
<http://www.epa.gov/nheerl/publications/files/PAHESB.pdf>. Hansen, D.J., DiToro, D.M., McGrath, J.A., Swartz, R.C., Mount, D.R., Spehar, R.L., Burgess, R.M., Ozretich, R.J., Bell, H.E., Reiley, M.C. and Linton, T.K. eds. U.S. EPA, Office of Research and Development, National Health and Environmental Effects National Laboratory, Washington, DC. 175 pp.
- (16) U.S.Environmental Protection Agency. 2005. Predicting Toxicity to Amphipods from Sediment Chemistry. U.S. EPA, Office of Research and Development, National Center for Environmental Assessment, Washington, DC. EPA/600/R04/030
- (17) U.S.Environmental Protection Agency. 2005. Conceptual Models and Methods for Diagnosing the Causes of Impairment to Aquatic Ecosystems. Campbell, D., Hill, B.H., Detenbeck, N.E., Ho, K.T., Kurtz, J.C., Burgess, R.M., Engle, V.D., Perez, K.T., Pelletier, M.C. and Snarski, V. eds. U.S. EPA, Office of Research and Development, Washington, DC.
- (18) U.S.Environmental Protection Agency. 2005. Ecological Condition of the Pensacola Bay System, Northwest Florida. EPA/620/R-05/002 URL:
<http://www.wfrpc.dst.fl.us/barc/stateofthebayreport.pdf>. Macauley, J., Smith, L.M. and Ruth, B.F. eds. U.S. EPA, Office of Research and Development, National Health and

- Environmental Effects Research Laboratory, Gulf Ecology Division, Gulf Breeze, FL. 47 pp.
- (19) Velleux, M.L.W.S., Ruppel, J., Settles, M. Endicott, D. 2000. A User's Guide to IPX, the In-Place Pollutant Export Water Quality Modeling Framework. Version 2.7.4. EPA/600/R-01/074 URL: http://dnr.wi.gov/org/water/wm/foxriver/documents/modeldocs/b2_manual.pdf. U.S. EPA, Office of Research and Development, National Health and Environmental Effects Research Laboratory, Washington, DC. 195 pp.
- (20) Yuan, L.L. 2005. Estimation and Application of Macroinvertebrate Tolerance Values. EPA/600/P-04/116A, Washington DC