

REFEREED PUBLICATIONS

- Abgrall, M. J. and L. J. Walters. 2003. Temporal Diversity and Abundance of Drift Macroalgae and Associated Organisms in Mosquito Lagoon, Volusia County, Florida. *Florida Scientist* 66:113-127.
- Aharon, P. 1994. Geology and biology of modern and ancient submarine hydrocarbon seeps and vents: An introduction. *Geo-Marine Letters* 14(2-3): 69-73. [NURC/UNCW J-94-22]
- Aharon, P., E.R. Graber, and H.H. Roberts. 1991. Detection of hydrocarbon venting on the Gulf of Mexico sea floor from determinations of dissolved inorganic carbon and $\delta^{13}\text{C}$ of the water column overlying seeps. *GCAGS Trans.* XLI: 2-9. [NURC/UNCW J-91-07]
- Aharon, P., E.R. Graber, and H.H. Roberts. 1992. Dissolved carbon and d^{13}C anomalies in the water column caused by hydrocarbon seeps on the northwestern Gulf of Mexico slope. *Geo-Marine Letters* 12(1): 33-40. [NURC/UNCW J-92-03]
- Aharon, P., H.H. Roberts, and R. Snelling. 1992. Submarine venting of brines in the deep Gulf of Mexico: Observations and geochemistry. *Geology* 20(6): 483-486. [NURC/UNCW J-92-18]
- Aharon, P., H.P. Schwarcz, and H.H. Roberts. 1997. Radiometric dating of submarine hydrocarbon seeps in the Gulf of Mexico. *Geological Society of America Bulletin*. 109(5): 568-579. [NURC/UNCW J-97-11]
- Alker AP, GW Smith, K Kim. 2001. Characterization of *Aspergillus sydowii*, a fungal pathogen of Caribbean sea fan corals. *Hydrobiologia*. Vol. 460, no. 1-3, pp. 105-111. Sept 2001
and dissolved oxygen in the Mississippi River plume/inner Gulf shelf region. *Estuaries*. 17(4):886-899. [NURC/UNCW J-94-35]
- Anthony, K R N and O. Hoegh-Guldberg. 2003. Variation in coral photosynthesis, respiration and growth characteristics in contrasting light microhabitats: an analogue to plants in forest gaps and understoreys? *Functional Ecology* 17, 895-899.
- Aronson, R.B. 1993. Hurricane effects on backreef echinoderms of the Caribbean. *Coral Reefs* 12(3/4): 139-142. [NURC/UNCW J-93-32]
- Aronson, R.B. 1998. Decadal-scale persistence of predation potential in coral reef communities. *Mar. Ecol. Prog. Ser.* 172:53-60. [NURC/UNCW J-98-06]
- Aronson, R.B., P.J. Edmunds, W.F. Precht, D.W. Swanson, and D.R. Levitan. 1994. Large-scale, long-term monitoring of Caribbean coral reefs: Simple, quick, inexpensive techniques. *Atoll Research Bulletin* (421): 1-19.
- Arp, A.J. and C.R. Fisher. 1995. Introduction to the Symposium: Life with Sulfide. *Amer. Zool.* 35(2): 81-82. [NURC/UNCW J-95-32]
- Assmann, M., Lichte, E., Pawlik, J.R., and Köck, M. 2000. Chemical defenses of the Caribbean sponges *Agelas wiedenmayeri* and *Agelas conifera*. *Marine Ecology Progress Series*, 207: 255-262. [NURC/UNCW J-00-16]
- Ault, J.S., and J. Luo. 1998. Coastal bays to coral reefs: Systems use of scientific data visualization in reef fishery management. International Council for the Exploration of the Seas. ICES D.M. 1998/S:3.
- Ault, J.S., G.A. Meester, J. Luo, S.G. Smith and , K.C. Lindeman. 2000. Dry Tortugas National Park natural resources affected environment. General Management Plan and Environmental Impact Statement. National Park Service. Denver, CO. 250 p.
- Ault, J.S., J.A. Bohnsack and S.G. Smith. (in press). Towards sustainable multispecies fisheries in the Florida USA coral reef ecosystem. *Bulletin of Marine Science*.
- Ault, J.S., J.A. Bohnsack, and G.A. Meester. 1997. Florida Keys National Marine Sanctuary: retrospective (1979-1995) assessment of reef fish and a case for protected marine areas, pp. 415-425. In: Developing and Sustaining World Fisheries Resources: The State of Science and Management. Hancock, D.A., D.C. Smith, A. Grant, and J.P. Beumer (eds.). 2nd World Fisheries Congress, Collingwood, Australia. *Fishery Bulletin* 96:395-414.
- Ault, J.S., J.A. Bohnsack, and G.A. Meester. 1998. A retrospective (1979-1996) multispecies assessment of coral reef fish stocks in the Florida Keys. *Fishery Bulletin* 96(3):395-414. [NURC/UNCW J-98-23]
- Ault, J.S., M.P. Crosby, G. Davis, and E. Reese 2000. Ecological assessments. Chapter 4, Pages 45-48 in Alternative Access Management Strategies for Marine and Coastal Protected Areas. U.S. Man and the Biosphere, Washington, DC. 168 p.
- Ault, J.S., S.G. Smith, G.A. Meester, J. Luo, E.C. Franklin, J.A. Bohnsack, D.E. Harper, D.B. McClellan, S.L. Miller, M. Chiappone, and D.W. Swanson. (2002). Synoptic habitat and reef fish surveys support establishment of marine reserves in Dry Tortugas, Florida USA. *Reef Encounter* 31:22-23.
- Ault, J.S., S.G. Smith, G.A. Meester, J. Luo and J.A. Bohnsack. 2001. Site Characterization for Biscayne National Park: assessment of fisheries resources and habitats. NOAA Technical Memorandum NMFS-SEFSC-468. 165 p.
- Ault, J.S., S.G. Smith, J. Luo, G.A. Meester, J.A. Bohnsack, and S.L. Miller. 2002. Baseline multispecies coral reef fish stock assessments for the Dry Tortugas. NOAA Technical Memorandum NMFS-SEFSC-487. 117 p.
- Bailey, T.G., M.J. Youngbluth, and G.P. Owen. 1995. Chemical composition and metabolic rates of gelatinous zooplankton from midwater and benthic boundary layer environments off Cape Hatteras, North Carolina, USA. *Mar. Ecol. Prog. Ser.* 122(1-3): 121-134. [NURC/UNCW J-95-09]
- Baker, A. 2004. Symbiont Diversity on Coral Reefs and Its Relationship to Bleaching Resistance and Resilience. In: E. Rosenberg (ed.) and Y. Loya (ed.) Coral Health and Disease. Springer-Verlag. [NURC/UNCW J-04-03]
- Baker, A.C. 2003. Flexibility and specificity in coral-algal symbiosis: Diversity, Ecology, and Biogeography. *Annu. Rev. Ecol. Evol. Syst.* 34:661-689.
- Barans, C.A. 1986. Submersible avoidance by yellowfin bass, *Anthias nicholsi*. *Northeast Gulf Sci.* 8(1): 91-95. [NURC/UNCW J-86-03]
- Barsby T, CE Kicklighter, ME Hay, MC Sullards, J Kubanek. 2003. Defensive 2-Alkylpyrrole Sulfamates from the Marine Annelid *Cirriiformia tentaculata* [Polychaeta: Cirratulidae]. *J Natural Products* 66:1110-1112. [NURC/UNCW J-03-08]
- Bartol, I.K. 1999. Distribution, swimming physiology, and swimming mechanics of brief squid, *Lolliguncula brevis*. Ph.D. dissertation, School of Marine Science, College of William & Mary, 215 pp.
- Bartol, I.K., and M.R. Patterson. 2000. Swimming mechanics of squid and its applicability to the design of highly maneuverable autonomous underwater vehicles. *Proceedings of the First International Symposium on Aqua Bio-Mechanisms*, Vol. 1, ISAMBEC 2000, Honolulu, Tokai University, 6 pp.
- Bartol, I.K., M. R. Patterson, and R. Mann. 2001. Swimming mechanics and behavior of the shallow-water brief squid *Lolliguncula brevis*. *Journal of Experimental Biology* 204: 3655-3682. [NURC/UNCW J-01-21]
- Bartol, I.K., R. Mann, and M. R. Patterson. 2001. Aerobic respiratory costs of swimming in the negatively buoyant brief squid *Lolliguncula brevis*. *Journal of Experimental Biology* 204: 3639-3653. [NURC/UNCW J-01-20]
- Bassim, K.M. 1997. Effects of Temperature and Ammonium on the Early Developmental Stages of a Scleractinian Coral: Implications for Global Warming and Nutrient Enrichment. MSc. thesis, Department of Biology, University of Southwestern Louisiana, Lafayette, L.A. 57+pp.
- Bassim, K.M., P.W. Sammarco, and T. Snell. 2002. Effects of temperature on success of (self and non-self) fertilization and embryogenesis in *Diploria strigosa* (Cnidaria, Scleractinia). *Mar. Bio.* 140:479-488. [NURC/UNCW J-02-15]
- Baums, I.B., M.W. Miller and A.M. Szmant. 2003. Ecology of a corallivorous gastropod, *Coralliophila abbreviata*, on two scleractinian hosts I: population structure of snails and corals. *Mar. Biol.* Vol. 142, no. 6, pp. 1083-1091. Jun [NURC/UNCW J-03-14]
- Baums, I.B., M.W. Miller and A.M. Szmant. 2003. Ecology of a corallivorous gastropod, *Coralliophila abbreviata*, on two scleractinian hosts II: feeding, respiration, and growth. *Mar. Biol.* Vol. 142, no. 6, pp. 1093-1101. Jun [NURC/UNCW J-03-15]
- Beach, K. and L. Walters. 2000. Dictyota Bloom in the Florida Keys: Fragments and Fouling. *Diving for Science in the 21st Century: American Association of Underwater Sciences* 2000: 61-63.

- Beach, K., L. Walters, P. Vroom, C. Smith, J. Coyer, and C. Hunter. 2003. Variability in the Ecophysiology of *Halimeda* spp. on Conch Reef, Florida Keys. *Journal of Phycology*. Vol. 39, no. 4, pp. 633-643. Aug [NURC/UNCW J-03-16]
- Beach, K., L. Walters, H. Borgeas, C. Smith, J. Coyer and P. Vroom. 2003. The Impact of Dictyota spp. on Halimeda populations of Conch Reef, Florida Keys. *Journal of Experimental Marine Biology and Ecology* 297:141-159.
- Beach, K.S., C.M. Smith, T. Michael, and H. Shin. 1995. Photosynthesis in reproductive unicells of *Ulva fasciata* and *Enteromorpha flexuosa*: Implications for ecological success. *Mar. Ecol. Prog. Ser.* 125(1-3): 229-237.
- Beiring, E.A. 1997. Life history and reproductive success of a broadcast-spawning gorgonian coral and implications for conservation biology. Ph.D. Thesis, State University of New York at Buffalo.
- Berger, D.K. and M.J. Butler. 2001. Octopuses influence den selection by juvenile Caribbean spiny lobster. *Mar. Freshwater Res.* 52: 1049-53. [NURC/UNCW J-01-09]
- Bergquist, D. C., I.A. Urcuyo, and C.R. Fisher. 2002. Establishment and persistence of seep vestimentiferan aggregations from the upper Louisiana slope of the Gulf of Mexico. *Mar. Ecol. Prog. Ser.* 241:89-98. [NURC/UNCW J-02-21]
- Bergquist, D.C., C. Fleckenstein, E. Smith, C.R. Fisher. (In Press.) Environment drives physiological variability in the cold seep mussel *Bathymodiolus childressi*. *Limn. Ocean.*
- Bergquist, D.C., F.M. Williams, and C.R. Fisher. 2000. Longevity record for deep-sea invertebrate. *Nature* 403: 499-500.
- Bergquist, D.C., J. Andras, T. McNelis, S. Howlett, M.J. Van Horn and C.R. Fisher. 2003. Succession in Gulf of Mexico Cold Seep Vestimentiferan Aggregations: The Importance of Spatial Variability. *Mar. Ecol.* Vol. 24, no. 1, pp. 31-44. May [NURC/UNCW J-02-23]
- Bergquist, D.C., T. Ward, E.E. Cordes, T. McNeils, R. Kosoff, S. Hourdez, R. Carney and C.R. Fisher. 2003. Community structure of vestimentiferan-generated habitat islands from upper Louisiana slope cold seeps. *J. Exp. Mar. Bio. Ecol.* 289:197 - 222. [NURC/UNCW J-03-19]
- Bertelsen, R.D. and C. Cox. 2001. Sanctuary roles in population and reproductive dynamics of Caribbean spiny lobster. Spatial processes and management of marine populations AK-01-02. pp 591-605.
- Bertelsen, R.D. and T.R. Matthews. 2001. Fecundity dynamics of female spiny lobster (*Panulirus argus*) in a south Florida fishery and Dry Tortugas National Park lobster sanctuary. *Mar. Freshwater Res.* 52:1559-1565. [NURC/UNCW J-01-19]
- Bierman, V.J., Jr., S.C. Hinz, D. Zhu, W.J. Wiseman, Jr., N.N. Rabalais, and R.E. Turner. 1994. A preliminary mass balance model of primary productivity
- Biernbaum, C.K. and E.L. Wenner. 1993. Trapping of necrophagous crustaceans on the upper continental slope off South Carolina, USA. *J. Crust. Biol.* 13(3): 601-608. [NURC/UNCW J-93-28]
- Biology 136: 259-267. [NURC/UNCW J-00-05]
- Bird, K.T. and J. Jewett-Smith. 1994. Development of a medium and culture system for in vitro propagation of *Halophila engelmannii*. *Canadian Journal of Botany* 72(10):1503-1510. [NURC/UNCW J-94-36]
- Blair, N.E., G.R. Plaia, S.E. Boehme, D.J. DeMaster, and L.A. Levin. 1994. The remineralization of organic carbon on the North Carolina continental slope. *Deep-Sea Research* 41(4-6):755-766. [NURC/UNCW J-94-37]
- Blair, N.E., L.A. Levin, D.J. DeMaster, and G. Plaia. 1996. The short-term fate of fresh algal carbon in continental slope sediments. *Limnol. and Oceanog.* 41(6): 1208-1219. [NURC/UNCW J-96-06]
- Block, B.A., H. Dewar, S.B. Blackwell, T.D. Williams, E.D. Prince, C.J. Farwell, A. Boustany, S.L.H. Teo, A. Seitz, A. Walli and D. Fudge. 2001. Migratory movements, depth preferences, and thermal biology of Atlantic bluefin tuna. *Science (Washington)* [Science (Wash.)]. Vol. 293, no. 5533, pp. 1310-1314. 17.
- Bohnsack, J.A., and J.S. Ault. 1996. Management strategies to conserve marine biodiversity. *Oceanography* 9(1):73-82. [NURC/UNCW J-96-22]
- Bohnsack, J.A., D.B. McClellan, D.E. Harper, G.S. Davenport, G.J. Konoval, A.M. Eklund, J.P. Contillo, S.K. Bolden, P.C. Fischel, G.S. Sandorf, J.C. Javech, M.W. White, M.H. Pickett, M.W. Hulsbeck, J.L. Tobias, J.S. Ault, G.A. Meester, S.G. Smith, and J. Luo. 1999. Baseline Data for Evaluating Reef Fish Populations in the Florida Keys. NOAA Tech. Mem. NMFS-SEFSC-427. 61 p.
- Bohnsack, J.A., D.E. Harper, and D.B. McClellan. 1994. Fisheries trends from Monroe County, Florida. *Bull. Mar. Sci.* 54(3):982-1018. [NURC/UNCW J-94-18]
- Bohnsack, J.A., J.S. Ault, and B. Causey. (in press) Why have no-take marine reserves? *Transactions of the American Fisheries Society*
- Bohnsack, J.A., M.W. Miller, and B. Haskell. 1999. Monitoring coral reefs and fishes in the Florida Keys. Pages 105-119 in J.E. Maragos and R. Grober-Dunsmore. (eds). *Proceedings of the Hawaii Coral Reef Monitoring Workshop, June 9-11, Honolulu, Hawaii*. 334 p.
- Bohnsack, J.A. 2000. A comparison of the short-term impacts of no-take marine reserves and minimum size limits. *Bulletin of Marine Science* [Bull. Mar. Sci.]. Vol. 66, no. 3, pp. 635-650.
- Bolden, S.K. 1990. Abundance and diet of the tomtate (*Haemulon aurolineatum*) on an artificial and natural reef in Onslow Bay, North Carolina. M.S. Thesis, University of North Carolina at Wilmington, 601 S. College Road, Wilmington, NC 28403. 59pp. [NURC/UNCW T-90-01]
- Bolser, R.C. 1995. Are tropical plants better defended? Palatability and defenses of temperate vs. tropical seaweeds. M.S. Thesis, Marine Sciences Curriculum, University of North Carolina-Chapel Hill. [NURC/UNCW J-95-02]
- Bolser, R.C. and M.E. Hay. 1996. Are tropical plants better defended? Palatability and defenses of temperate versus tropical seaweeds. *Ecology* 77(8): 2269-2286. [NURC/UNCW J-96-11]
- Bouma, A.H. and H.H. Roberts. 1990. Northern Gulf of Mexico continental slope. *Geo-Marine Letters* 10(4): 177-181. [NURC/UNCW J-90-18]
- Bouma, A.H., H.H. Roberts, and J.M. Coleman. 1990. Acoustical and geological characteristic of near-surface sediments, upper continental slope of northern Gulf of Mexico. *Geo-Marine Letters* 10(4): 200-208. [NURC/UNCW J-90-19]
- Brazeau, D., D. Gleason, and M. Morgan. 1998. Self-fertilization in brooding hermaphroditic Caribbean corals: evidence from molecular markers. *J. Experiment. Marine Biol.* 231(2): 225-238. [NURC/UNCW J-98-19]
- Bretz, C.K., R.G. Kvitek and P.J. Iampietro. 1998. A case study in the application of spatial data acquisition tools and multimedia GIS for environmental monitoring and management in Antarctica. *EOM*. 7: 11-13.
- Bretz, C.K., R.G. Kvitek, and P.J. Iampietro. 1999. A case study in the application of spatial data acquisition tools and multimedia GIS for environmental monitoring and management in Antarctica. *Antarctic Journal of the U.S.* 1998 Semiannual Review Issue (2).
- Broadwater, J. D. and D.A. Dinsmore. 2000. "1998 NOAA Research Expedition to the Monitor National Marine Sanctuary". In *Assessment and Feasibility of Technical Diving Operations for Scientific Exploration*, R.W. Hamilton, D.F. Pence and D.E. Kesling, editors. Nahant, MA: American Academy of Underwater Sciences, pp. 17-29.
- Broadwater, J. 1998. "The Monitor's Final Battle," *The Web of Time* (Archaeological Journal on the Web), Volume 1, No. 3, 1998.
- Brodeur, R.D. 1998. In situ observations of the association between juvenile fishes and scaphomedusae in the Bering Sea. *Mar. Ecol. Prog. Ser.* 163:11-20. [NURC/UNCW J-98-15]
- Brooke, S. and C.M. Young. 2003. Reproductive ecology of a deep-water scleractinian coral, *Oculina varicose*, from the southeast Florida shelf. *Continental Shelf Research* 23: 847-858. [NURC/UNCW J-03-06]
- Brooks, J.M., M.C. Kennicutt II, C.R. Fisher, S.A. Macko, K. Cole, J.J. Childress, R.R. Bidigare, and R.D. Vetter. 1987. Deep-sea hydrocarbon seep communities: Evidence for energy and nutritional carbon sources. *Science* 238(4830): 1138-1142. [NURC/UNCW J-87-01]
- Brown, B.E., I. Ambarsari, M.E. Warner, W.K. Fitt, R.P. Dunne, S.W. Gibb, D.G. Cummings. 1999. Diurnal change in photochemical efficiency and xanthophyll concentrations in shallow water reef corals: evidence for photoinhibition and photoprotection. *Coral Reefs* 18(2): 99-105. [UNCW/NURC J-99-04]
- Bruno, J.F., L.E. Petes, C. D. Harvell and A. Hettinger. 2003. Nutrient enrichment can increase the severity of coral diseases. *Ecology Letter* 6:1056-1061. [NURC/UNCW J-03-25]

- Buddemeier, R.W., A. Baker, D.G. Fautin and J.R. Jacobs. 2004. The Adaptive Hypothesis of Bleaching. In: E. Rosenberg (ed.) and Y. Loya (ed.) *Coral Health and Disease*. Springer-Verlag. [NURC/UNCW J-04-02]
- Bullard, S.G. and M.E. Hay. 2002. Plankton tethering to assess spatial patterns of predation risk over a coral reef and seagrass bed. *Marine Ecology Progress Series* 225:17-28. [NURC/UNCW J-02-14]
- Bullard, S.G. and M.E. Hay. 2002. Palatability of marine macro-holoplankton: Nematocysts, nutritional quality, and chemistry as defenses against consumers. *Limnology and Oceanography*. 47(5) 1456-1467 [NURC/UNCW J-02-08]
- Bullard, S.G., N.L. Lindquist, and M.E. Hay. 1999. Susceptibility of invertebrate larvae to predators: how common are post-capture larval defenses? *Marine Ecology Series* 191: 153-161.
- Burk, S.W. 1990. Migration and diet of black sea bass (*Centropristis striata*) on an artificial and natural reef in Onslow Bay, North Carolina. M.S. Thesis, University of North Carolina at Wilmington, 601 S. College Road, Wilmington, NC 28403. 69pp. [NURC/UNCW T-90-02]
- Burns, E., Ifrach, I., Carmeli, S., Pawlik, J.R. and Ilan, M. 2003. Comparison of anti-predatory defenses of Red Sea and Caribbean sponges: I. Chemical defense. *Mar. Ecol. Prog. Ser.* Vol. 252, pp. 105-114. 30 Apr. [NURC/UNCW J-03-22]
- Butler, M.J., T. Dolan, W. Herrnkind and J. Hunt. 2001. Modelling the effect of spatial variation in postlarval supply and habitat structure on recruitment of Caribbean spiny lobster. *Mar. Freshwater Res.* 52: 1243-1252. [NURC/UNCW J-01-08]
- Cahoon, L.B. 1988. Use of whirling cup rotors to stir benthic chambers. *Hydrobiologia* 160(3): 193-198. [NURC/UNCW J-88-02]
- Cahoon, L.B. 1992. Total chlorophyll *a* in Onslow Bay, North Carolina: Field observations vs. predictions of a total chlorophyll algorithm. *J. Elisha Mitchell Sci. Soc.* 108(3):91-101. [NURC/UNCW J-92-27]
- Cahoon, L.B. and C.R. Tronzo. 1988. A comparison of demersal zooplankton collected at Alligator Reef, Florida, using emergence and re-entry traps. *Fish. Bull.* 86(4): 838-845. [NURC/UNCW J-88-01]
- Cahoon, L.B. and C.R. Tronzo. 1990. New records of amphipods and cumaceans in demersal zooplankton collections from Onslow Bay, North Carolina. *J. Elisha Mitchell Sci. Soc.* 106(3): 78-84. [NURC/UNCW J-90-13]
- Cahoon, L.B. and C.R. Tronzo. 1992. Quantitative estimates of demersal zooplankton abundance in Onslow Bay, North Carolina. *Mar. Ecol. Prog. Ser.* 87(1-2):197-200. [NURC/UNCW J-92-28]
- Cahoon, L.B. and J. E. Cooke. 1992. Benthic microalgal production in Onslow Bay, North Carolina. *Mar. Ecol. Prog. Ser.* 84(2):185-196. [NURC/UNCW J-92-08]
- Cahoon, L.B. and R.A. Laws. 1993. Benthic diatoms from the North Carolina Continental Shelf: Inner and mid shelf. *J. Phycol.* 29(3): 257-263. [NURC/UNCW J-93-08]
- Cahoon, L.B., C.R. Tronzo and J.C. Howe. 1986. Notes on the occurrence of *Hyperoche medusarum* (Kroyer) (Amphipoda, Hyperidae) with ctenophora off North Carolina, USA. *Crustaceana* 51(1): 95-97. [NURC/UNCW J-86-01]
- Cahoon, L.B., G.R. Beretch Jr., C.J. Thomas, and A.M. McDonald. 1993. Benthic microalgal production at Stellwagen Bank, Massachusetts Bay, USA. *Mar. Ecol. Prog. Ser.* 102: 179-185. [NURC/UNCW J-93-11]
- Cahoon, L.B., R.L. Redman, and C.R. Tronzo. 1990. Benthic microalgal biomass in sediments of Onslow Bay, North Carolina. *Estuarine, Coastal, and Shelf Science* 31(6): 805-816. [NURC/UNCW J-90-12]
- Cairns, S.D., D.M. Opresko, T.S. Hopkins, and W.W. Schroeder. 1993. New records of deep-water cnidaria (Scleractinia & Antipatharia) from the Gulf of Mexico. *Northeast Gulf Science* 13(1):1-11. [NURC/UNCW J-93-16]
- calcification and tissue growth rate. *Marine Biology*.
- Callender, R. and E.N. Powell. 2000. Long-term history of chemoautotrophic clam-dominated faunas of petroleum seeps in the northwest Gulf of Mexico. *Facies* 43: 177-204. [NURC/UNCW J-00-08]
- Callender, W.R. 1992. Recognition of deep-water benthic assemblages in the fossil record: Taphonomy and community characteristics of Louisiana continental slope petroleum seep assemblages. Ph.D. Dissertation, Texas A&M University, College Station, TX 77843. 270pp. [NURC/UNCW T-92-04]
- Callender, W.R. and E.N. Powell. 1992. Taphonomic signature of petroleum seep assemblages on the Louisiana upper continental slope: Recognition of autochthonous shell beds in the fossil record. *Palaios* 7:388-408. [NURC/UNCW J-92-16]
- Callender, W.R. and E.N. Powell. 1997. Autochthonous death assemblages from chemoautotrophic communities at petroleum seeps: Palaeoproduction, energy flow, and implications for the fossil record. *Hist. Biol* 12: 165-198. [NURC/UNCW J-97-17]
- Callender, W.R. and E.N. Powell. 1999. Why did ancient chemosynthetic seep and vent assemblages occur in shallower water than they do today? *Int. Journ. Earth Sciences* 88:377-391. [NURC/UNCW J-99-20]
- Callender, W.R., G.M. Staff, K.M. Parsons-Hubbard, E.N. Powell, G.T. Rowe, S.E. Walker, C.E. Brett, A. Raymond, D. Carlson, S. White and E.A. Heiss. 2002. Taphonomic trends along a foreereef slope: Lee Stocking Island, Bahamas. I. Location and water depth, *Palaios*, v. 17, p. 50-65. [NURC/UNCW J-02-11]
- Callender, W.R., E.N. Powell, and G.M. Staff. 1994. Taphonomic rates of molluscan shells placed in autochthonous assemblages on the Louisiana continental slope. *Palaios* 9(1):60-73. [NURC/UNCW J-94-03]
- Callender, W.R., E.N. Powell, G.M. Staff, and D.J. Davies. 1992. Distinguishing autochthony, parautochthony and allochthony using taphofacies analysis: Can cold seep assemblages be discriminated from assemblages of the nearshore and continental shelf? *Palaios* 7(4): 409-421. [NURC/UNCW J-92-17]
- Callender, W.R., G.M. Staff, E.N. Powell, and I.R. MacDonald. 1990. Gulf of Mexico hydrocarbon seep communities: V. Biofacies and shell orientation of autochthonous shell beds below storm wave base. *Palaios* 5(1): 2-14. [NURC/UNCW J-90-01]
- Carlton, R.G. and L.L. Richardson. 1995. Oxygen and sulfide dynamics in a horizontally migrating cyanobacterial mat: Black band disease of corals. *FEMS Microbiol. Ecol.* 18(2): 155-162.
- Carney, R.S. 1994. Consideration of the oasis analogy for chemosynthetic communities at Gulf of Mexico hydrocarbon vents. *Geo-Marine Letters* 14: 149-159. [NURC/UNCW J-94-32]
- Cary, S.C., C. Fisher, and H. Felbeck. 1988. Mussel growth supported by methane as sole carbon and energy source. *Science (Wash.)* 240(4848): 78-80. [NURC/UNCW J-88-03]
- Cetrulo, G.L. and M.E. Hay. 2000. Activated chemical defenses in tropical versus temperate seaweeds. *Marine Ecology Progress Series*. 207:243-253.
- Chanas, B. 1995. Physical and chemical defenses of three Caribbean reef sponges. M.S. Thesis. University of North Carolina-Wilmington. [NURC/UNCW J-95-03]
- Chanas, B. and J.R. Pawlik. 1995. Defenses of Caribbean sponges against predatory reef fish: II. Spicules, tissue toughness, and nutritional quality. *Mar. Ecol. Prog. Ser.* 127(1-3): 195-211. [NURC/UNCW J-95-18]
- Chanas, B. and J.R. Pawlik. 1996. Does the skeleton of a sponge provide a defense against predatory reef fish? *Oecologia* 107(2):225-231. [NURC/UNCW J-96-03]
- Chanas, B. and J.R. Pawlik. 1997. Variability in the chemical defense of Caribbean reef sponge *Xestospongia muta*. *Proc. 8th Internat. Coral Reef Symp.*, 2:1363-1368, Panama City, Panama.
- Chanas, B., J.R. Pawlik, T. Lindel, and W. Fenical. 1996. Chemical defense of the Caribbean sponge *Agelas clathrodes* (Schmidt). *Jour. Exp. Mar. Biol. Ecol.* 208:186-196.
- Chapman, R.W., G.R. Sedberry, C.C. Koenig, and B. Eleby. 1999. Stock identification of gag, *Mycteroperca microlepis*, along the southeast coast of the United States. *Mar. Biotechnol.* 1(2): 137-146.
- Chapman, R.W., G.R. Sedberry, J.C. McGovern, and B.A. Wiley. 1999. The generic consequences of reproductive variance: studies of species with different longevities, in: Musick, J.A. (Ed.), *Life in the Slow Lane: Ecology and Conservation of Long-Lives Marine Animals*. *Am. Fish. Soc. Symposium* 23: 169-181.
- Chiao, C.C. and T.W. Cronin. 2002. Hyperspectral imaging for color vision research. *Recent Res. Devel. Optics* 2:465-482.
- Chiappone M, Dienes H, Swanson DW, Miller SL (In Press) Density and gorgonian host-occupation patterns by flamingo tongue snails (*Cyphoma gibbosum*) in the Florida Keys. *Caribbean Journal of Science Marine Ecology Progress Series*.
- Chiappone M., A. White, D.W. Swanson, and S.L. Miller. 2002. Occurrence and biological impacts of fishing gear and other marine debris in the Florida Keys. *Marine Pollution Bulletin* Vol. 44:597-604. [NURC/UNCW J-02-16]

- Chiappone M., D.W. Swanson, S.L. Miller, and S.G. Smith. 2002. Large-scale surveys on the Florida Reef Tract indicate poor recovery of the long-spined sea urchin *Diadema antillarum*. *Coral Reefs* 21:155-159.
- Chiappone, M. and K.M. Sullivan. 1994. Ecological structure and dynamics of nearshore hard-bottom communities in the Florida Keys. *Bull. Mar. Sci.* 54(3): 747-756. [NURC/UNCW J-94-50]
- Chiappone, M., S.L. Miller, D.W. Swanson, J.S. Ault, and S.G. Smith. 2001. Comparatively high densities of long-spined sea urchins in the Dry Tortugas, Florida. *Coral Reefs* 20(2):137-138.
- Clarke, A.H. 1989. New mollusks from undersea oil seep sites off Louisiana. *Malacology Data Net* 2(5/6): 122-134. [NURC/UNCW J-89-01]
- Clavijo, I.E. and P.L. Donaldson. 1994. Spawning behavior of the labrid, *Halichoeres bivittatus*, on artificial and natural substrates in Onslow Bay, N.C., with notes on early life history. *Bull. Mar. Sci.* 55(2-3): 383-387. [NURC/UNCW J-94-10]
- Cleary, W.J., M.A. McLeod, M.A. Rauscher, M.K. Johnston and S. R. Riggs. 2001. Beach nourishment on hurricane impacted barriers in southeastern North Carolina, USA: Targeting shoreface and tidal inlet sand resources. *Journal of Coastal Research Issue 34, (ICS 2000 New Zealand):*232-255. [NURC/UNCW J-01-13]
- Cockey, E.M. 1994. Decadal-scale changes in benthic foraminiferal assemblages off Key Largo, Florida. M.S. Thesis, University of South Florida, Department of Marine Science, 140 Seventh Avenue South, St. Petersburg, FL 33701-5016. 76pp. [NURC/UNCW T-94-06]
- Cockey, E.M., P. Hallock, and B.H. Lidz. 1996. Decadal-scale changes in benthic foraminiferal assemblages off Key Largo, Florida. *Coral Reefs* 15(4): 237-248. [NURC/UNCW J-96-18]
- Coffroth, M.A. and J.M. Mulwaka III. 1995. Identification of marine invertebrate larvae by means of PCR-RAPD species-specific markers. *Limnol. Oceanogr.* 40(1): 181-189. [NURC/UNCW J-95-03]
- Coffroth, M.A. and Lasker, H.R. 1998. Larval paternity and male reproductive success of a broadcast spawning gorgonian. *Marine Biology* 131(2):329-337. [NURC/UNCW J-98-24]
- Coffroth, M.A. and Lasker, H.R. 1998. Population structure of a clonal gorgonian coral: The interplay between clonal reproduction and disturbance. *Evolution* 52(2):379-393.
- Cook, Jeffrey W. Spring 1997. Benthic infaunal community, bioerosion, and sediment production on Miocene mudstone hardbottoms, Onslow Bay, North Carolina: M.S. Thesis, Dept. of Geology, East Carolina University, Greenville, N.C., 224 pp.
- Corbett, D. R., K. Dillon, W. Burnett, and J. Chanton. 2000. Estimating the groundwater contribution into Florida Bay via natural tracers, 222Rn and CH4. *Limnology and Oceanography*, 45, 1546-1557. [NURC/UNCW J-00-14]
- Corbett, D.R., J. Chanton, W. Burnett, K Dillon, C. Rutcowski, and J. Fourqurean. 1999. Patterns of groundwater discharge into Florida Bay. *Limnol. Oceanogr.* 44(4): 1045-1055. [NURC/UNCW J-99-15]
- Corbett, D.R., Kump, L., Dillon, K, Burnett, W. and Chanton J. 2000. Fate of wastewater-borne nutrients under low discharge conditions in the subsurface of the Florida Keys, USA. *Marine Chemistry*, 69, 99-115. [NURC/UNCW J-00-17]
- Cordes, E.E., D.C. Bergquist, K. Shea and C.R. Fisher. 2003. High hydrogen sulfide demand of long-lived vestimentiferan tube worm aggregations modifies the chemical environment at deep-sea hydrocarbon seeps. *Ecology Letters* 6:212-219.
- Coyer, J.A. 1995. Use of rock as an anvil for breaking scallops by the yellowhead wrasse, *Halichoeres garnoti* (Labridae). *Bull. Mar. Sci.* 57(2):545-546. [NURC/UNCW J-95-08]
- Cronan, J.M. and J.H. Cardellina II. 1994. A novel δ -Lactam from the sponge *Tedania ignis*. *Natural Product Letters*. 5(2): 85-88. [NURC/UNCW J-94-17]
- Cronin T.W. and J. Marshall. (in press) The visual world in mantis shrimps. In: *Complex Worlds From Simple Nervous Systems* (F. Prete, ed). MIT Press, Cambridge MA
- Cronin T.W. and N. Shashar. 2001. The linearly polarized light field in clear, tropical marine waters: spatial and temporal variation of light intensity, degree of polarization, and *e*-vector angle. *J. Exp. Biol.* 204:2461-2467. [NURC/UNCW J-01-22]
- Cronin T.W. and Y. Takahara. 2002. Spectral sensitivity in crustaceans. In: *The Crustacean Nervous System* (K. Wiese, ed). Springer, Berlin Heidelberg New York. pp. 499-511.
- Cronin T.W., (in press) Invertebrate vision in water. In: *Invertebrate Vision* (E. Warrant and D.E. Nilsson, eds). Cambridge University Press, Cambridge UK
- Cronin T.W., N.J. Marshall, and R.L. Caldwell. 2000. Spectral tuning and the visual ecology of mantis shrimps. *Phil. Trans. Roy Soc. B* 355:1263-1267.
- Cronin TW and J Marshall. 2001. Parallel processing and image analysis in the eyes of mantis shrimps. *Biol. Bull.* 200:177-183. [NURC/UNCW J-01-24]
- Cronin TW and R. Jinks. 2001. Ontogeny of Vision in Marine Crustaceans. *Amer. Zool.* 41:1098-1107. [NURC/UNCW J-01-27]
- Cronin, G., M.E. Hay, W. Fenical, and N. Lindquist. 1995. Distribution, density, and sequestration of host chemical defenses by the specialist nudibranch *Tritonia hamnerorum* found at high densities on the sea fan *Gorgonia ventalina*. *Mar. Ecol. Prog. Ser.* 119(1-3): 177-189.
- Cronin, T.W. and R.N. Jinks. 2002. Ontogeny of vision in marine crustaceans. *Am. Zoologist* 41:1098-1107.
- Cronin, T.W., R.L. Caldwell, and M. Erdmann. 2002. Tuning of photoreceptor function in three mantis shrimp species that inhabit a range of depths. I. Visual pigments. *J. Comp. Physiol. A* 188:179-86. [NURC/UNCW J-02-25]
- Cronin, T.W., N. Shashar, R.L. Caldwell, J. Marshall, A.G. Cheroske, and T.H. Chiou. 2003. Polarization vision and its role in biological signaling. *Int. Comp. Biol.* 43:549-558. [NURC/UNCW J-03-28]
- Cronin, T.W., N. Shashar, R.L. Caldwell, J. Marshall, A.G. Cheroske, and T.H. Chiou. 2003. Polarization signals in the marine environment. *Proc. of SPIE* 5158:85-92. [NURC/UNCW J-03-29]
- Cronin, T.W., N.J. Marshall, and R.L. Caldwell. 1996. Visual pigment diversity in two genera of mantis shrimps implies rapid evolution. *J. Comp. Physiol. A* 179(3):371-384. [NURC/UNCW J-96-23]
- Cronin, T.W. and R.L. Caldwell. 2002. Tuning of photoreceptor function in three mantis shrimp species that inhabit a range of depths. II. Filter pigments. *J. Comp. Physiol. A* 188:187-97. [NURC/UNCW J-02-26]
- Crowson, R.A., S.R. Riggs, E.R. Powers, R.H. Yoon, and J. Schoenerr. 1994. Beneficiation study of continental shelf phosphorites, Onslow Bay, North Carolina. North Carolina Geological Survey, Open-File Report 94-1.
- Cruz-Rivera, E. and M.E. Hay (2003) Prey nutritional quality interacts with chemical defenses to affect consumer feeding and fitness. *Ecological Monographs* 73(3) pp.483-506. [NURC/UNCW J-03-11]
- Cruz-Rivera, E. and M.E. Hay 2001. Macroalgal traits and the feeding and fitness of an herbivorous amphipod: the roles of selectivity, mixing, and compensation. *Marine Ecology Progress Series* 218: 249-266
- Cruz-Rivera, E. and M.E. Hay. 2000. The effects of diet mixing on consumer fitness: macroalgae, epiphytes, and animal matter as food for marine amphipods. *Oecologia* 123:252-264.
- Dahlgren, C. 1994. Effects of bioturbation near a natural reef. M.S. Thesis, University of North Carolina at Wilmington, 601 S. College Road, Wilmington, NC 28403. [NURC/UNCW T-94-01]
- Dahlgren, C.P., M.H. Posey and A.W. Hulbert. 1999. The effects of bioturbation on the infaunal community adjacent to an offshore hardbottom reef. *Bull. Mar. Sci.* 64(1): 21-34. [NURC/UNCW J-99-21]
- Davies, D.J., E.N. Powell, and R.J. Stanton, Jr. 1989. Relative rates of shell dissolution and net sediment accumulation - a commentary: can shell beds form by the gradual accumulation of biogenic debris on the sea floor? *Lethaia* 22(2): 207-212. [NURC/UNCW J-89-02]
- De Beukelaer, S.M., I.R. MacDonald, N.L. Guinasso and J.A. Murray. 2003. Distinct side-scan sonar, RADARSAT SAR, and acoustic profiler signatures of gas and oil seeps on the Gulf of Mexico slope: *Geo-Marine Letters*, v. 23, p. 177-186. [NURC/UNCW J-03-26]
- DeMaster, D.J., R.H. Pope, L.A. Levin, and N.E. Blair. 1994. Biological mixing intensity and rates of organic carbon accumulation in North Carolina slope sediments. *Deep-Sea Research* 41(4-6): 735-753. [NURC/UNCW J-94-38]

- Deming, J.W., A. Reysenbach, S.A. Macko and C.R. Smith. 1997. Evidence for the microbial basis of a chemoautotrophic invertebrate community at a whale fall on the deep sea floor: bone-colonizing bacteria and invertebrate endosymbionta. *Jour. Microscopy Res. Tech.* 37: 162-170.
- Denner, E.B.M., G.W. Smith, H-J. Busse, P. Schumann, T. Narzt, S. Polson, W. Lubitz, and L.L. Richardson. 2002. *Aurantimonas corallicida* gen. nov., sp. nov., the causative agent of plague type II disease on Caribbean scleractinian corals. *International Journal of Systematic and Evolutionary Microbiology*. (first published on line)
- Dentzman, R. C. 1996. Geological controls over the distribution and diversity of continental hardbottom habitats: a detailed analysis from Onslow Bay, North Carolina: M.S. Thesis, Dept. of Marine, Earth, and Atmospheric Sciences, N.C. State University, Raleigh, NC, 83pp. Department of Geology, East Carolina University, Greenville, NC.
- Desbruyeres, D. and A. Toulmond. 1998. A new species of hesionid worm, *Hesioeca methanicola* sp. nov. (Polychaeta: Hesionidae), living in ice-like methane hydrates in the deep Gulf of Mexico. *Cah. Biol. Mar.* 39(1): 93-98.
- Dettmering, C. 1998. The trimorphic life cycle in foraminifera: Observations from culture. M.S. Thesis, Institute of General Microbiology, Kiel University, Germany.
- Dettmering, C., R. Rottger, J. Hohenegger, and R. Schmaljohann. 1998. The trimorphic life cycle in foraminifera: Observations from culture allow new evaluation. *European Jour. Protistology*. 34(4):363-368.
- Dienes H, Chiappone M, Miller SL, Swanson DW (In press) Density and fore reef habitat utilization patterns of the lettuce sea slug (*Tridachia crispata*) in the Florida Keys. *Bulletin of Marine Science*.
- Dienes H., M. Chiappone, D.W. Swanson and S.L. Miller. (In press) Impacts of lost fishing gear on coral reef sessile invertebrates of the Florida Keys National Marine Sanctuary. *Biological Conservation*.
- Dillon, K.S., D.R. Corbett, J.P. Chanton W.C. Burnett and D.J. Furbish. 1999. The use of Sulfur Hexafluoride as a tracer of septic tank effluent in the Florida Keys. *Journal of Hydrology*, 220, 129-140. [NURC/UNCW J-99-22]
- Dillon, K.S., D.R. Corbett, J.P. Chanton W.C. Burnett and L. Kump. 2000. Rapid transport of a wastewater plume injected into saline groundwaters of the Florida Keys, USA. *Hydrology*, 38, pages 624-634.
- Dillon, K.S., D.R. Corbett, J.P. Chanton W.C. Burnett and L. Kump. 2000. Bimodal transport of a waste water plume injected into saline ground water of the Florida Keys, USA. *Ground Water*, 38(4), pages 624-634. [NURC/UNCW J-00-15]
- Doerries, M.B. and C.L. Van Dover. 2003. Higher-taxon richness as a surrogate for species richness in vent and seep chemosynthetic communities. *Deep-Sea Research I* 50:749-755.
- Donaldson, C.L. 1992. Hermit crab species ensemble on hard-bottom reefs in Onslow Bay, North Carolina: Shell limitation and species coexistence. M.S. Thesis, University of North Carolina at Wilmington, 601 S. College Road, Wilmington, NC 28403. 35pp. [NURC/UNCW T-92-01]
- Donaldson, P.L. 1991. Diet of round scad *Decapterus punctatus* on a natural and artificial reef in Onslow Bay, North Carolina. M.S. Thesis, University of North Carolina at Wilmington, 601 S. College Road, Wilmington, NC 28403. 65pp. [NURC/UNCW T-91-01]
- Donaldson, P.L. and I.E. Clavijo. 1994. Diet of round scad (*Decapterus punctatus*) on a natural and an artificial reef in Onslow Bay, N.C. *Bull. Mar. Sci.* 55(2-3):501-509. [NURC/UNCW J-94-11]
- Donovan-Potts, P.A. 1993. The biological and physical parameters surrounding the traditional spawning sites of the bluehead wrasse, *Thalassoma bifasciatum*, along the Key Largo, Florida reef tract. M.S. Thesis, University of North Carolina at Wilmington, 601 S. College Road, Wilmington, NC 28403. 36pp. [NURC/UNCW T-93-02]
- Dortch, Q., N.N. Rabalais, R.E. Turner, and G.T. Rowe. 1994. Respiration rates and hypoxia on the Louisiana shelf. *Estuaries* 17(4): 862-872. [NURC/UNCW J-94-39]
- Dreyer, J., Miura T., Van Dover, C.L. (in press). *Vesicomycicola trifurcata*, a new genus and species of Commensal polychaete (Nautiliellidae) found in deep-sea clams from the Blake Ridge cold seep. *Proceedings of the Biological Society of Washington*.
- Duffy, J.E. and M.E. Hay. 1994. Herbivore resistance to seaweed chemical defense: The roles of mobility and predation risk. *Ecology* 75(5):1304-1319. [NURC/UNCW J-94-34]
- Duffy, J.E. and M.E. Hay. 2001. Ecology and evolution of marine consumer-prey interactions. Pages 131-157, In Bertness, M, M.E. Hay and S.D. Gaines (eds.) *Marine Community Ecology*, Sinauer Press, Sunderland, Massachusetts.
- Dunlap, M. and J.R. Pawlik. 1998. Spongivory by parrotfishes in Florida mangrove and reef habitats. *Mar. Ecol.* 19(4):325-337 [NURC/UNCW J-98-11]
- Dunlap, M.J. 1997. Spongivory by Caribbean reef fish. M.S. Thesis, University of North Carolina at Wilmington, 601 S. College Road, Wilmington, NC 28403.
- Dunlap, M.J. and J.R. Pawlik. 1996. Video-monitored predation by Caribbean reef fishes on an array of mangrove and reef sponges. *Mar. Biol.* 126(1): 117-123. [NURC/UNCW J-96-05]
- Durako, M.J. and J.I. Kunzelman. 2002. Photosynthetic characteristics of *Thalassia testudinum* measured in situ by pulse-amplitude modulated (PAM) fluorometry: methodological and scale-based considerations. *Aquatic botany* 73: 173-185. [NURC/UNCW J-02-06]
- Durako, M.J., M.O. Hall and M. Merello. 2002. J.W. Porter (ed.) and K.G. Porter (ed.) *The Everglades, Florida Bay, and Coral Reefs of the Florida Keys An Ecosystem Sourcebook*. CRC Press. [NURC/UNCW J-02-10]
- Eckelbarger, K.J. and C.M. Young. (1999). Ultrastructure of gametogenesis in a chemosynthetic mytilid from bathyal methane seeps in the Gulf of Mexico. *Mar. Biol.* 135(4): 635-646.
- Eckelbarger, K.J. and C.M. Young. 1997. Ultrastructure of the ovary and oogenesis in the methane seep mollusc *Bathynereis naticioidea* (Gastropoda: Neritidae) from the Louisiana Slope. *Invert. Biol.* 116(4):299-312
- Eckelbarger, K.J., C.M. Young, S. Brooke, E. Ramirez and P.A. Tyler. 2001. Gametogenesis, spawning behavior, and early development in the "iceworm" *Hesioeca methanicola* (Polychaeta: Hesionidae) from methane hydrates in the Gulf of Mexico. *Marine Biology* Vol. 138, no. 4, pp. 761-775. [NURC/UNCW J-01-28]
- Ecol. Prog. Ser. 127(1-3):183-194. [NURC/UNCW J-95-17]
- Edmunds P.J. and R.D. Gates. 2002. Standardizing physiological data for scleractinian corals. *Coral Reefs* 139: 981-989
- Edmunds, P.J. 1996. Ten days under the sea. *Scientific American*, 275(4): 88-95. [NURC/UNCW J-96-24]
- Edmunds, P.J., R.B. Aronson, D.W. Swanson, D.R. Levitan and W.F. Precht. 1998. Photographic versus visual census techniques for the quantification of juvenile corals. *Bulletin of Marine Science*. 62(3): 937-946. [NURC/UNCW J-98-16]
- Edmunds, P.J., R.D. Gates and D.F. Gleason. 2001. The biology of larvae from the reef coral *Porites astreoides*, and their response to temperature disturbances. *Marine Biology* 139: 981-989. [NURC/UNCW J-01-14]
- Edmunds, P.J., R.D. Gates, and D.F. Gleason. (2003). The tissue composition of *Montastraea franksi* during a natural bleaching event in the Florida Keys. *Coral Reefs* vol. 22: 54-62, Issue 1. [NURC/UNCW J-03-04]
- Engel, J. and R. Kvitek. 1998. Effects of otter trawling on a benthic community in Monterey Bay National Marine Sanctuary. *Cons. Biol.* 12: 1204-1214.
- Engel, S. and Pawlik, J.R. 2000. Allelopathic activities of sponge extracts. *Marine Ecology Progress Series*, 207: 273-281. extreme environments.. *Geology*. 26(9): 851-854.
- Fang, J., T.A. Abrajano, P.A. Comet, J.M. Brooks, R.S. Sassen, and I.R. MacDonald. 1993. Gulf of Mexico hydrocarbon seep communities XI. Carbon isotopic fractionation during fatty acid biosynthesis of seep organisms and its implication for chemosynthetic processes. *Chem. Geol.* 109(1/4): 271-279. [NURC/UNCW J-93-21]
- Felley, J.D. and M. Vecchione. 1995. Assessing habitat use by nekton on the continental slope using archived videotapes from submersibles. *Fish. Bull.* 93(2): 262-273. [NURC/UNCW J-95-30]
- Ferrell, R.E. and P. Aharon. 1994. Mineral assemblages occurring around hydrocarbon vents in the northern Gulf of Mexico. *Geo-Marine Letters* 14(2-3): 74-80. [NURC/UNCW J-94-23]

- Ferrier-Pages, C., J. Witting, E. Tambutte and K.P. Sebens. 2003. Effect of natural zooplankton feeding on the tissue and skeletal growth of the scleractinian coral *Stylophora pistillata*. *Coral Reef* 22:229-240. [NURC/UNCW J-03-13]
- Field, J.M. 1993. The influence of temperature, salinity, and postlarval transport on the distribution of juvenile spiny lobsters, *Panulirus argus*, in Florida Bay. M.S. Thesis. Old Dominion University, Norfolk, VA. 60pp. [NURC/UNCW T-93-03]
- Field, J.M. and M.J. Butler IV. 1994. The influence of temperature, salinity and larval transport on the distribution of juvenile spiny lobsters, *Panulirus argus*, in Florida Bay. *Bulletin of Marine Science* 54(3): 1074. [NURC/UNCW J-94-01]
- Fisher, C.R. 1990. Chemoautotrophic and methanotrophic symbioses in marine invertebrates. *Crit. Rev. Aquat. Sci.* 2(3-4): 399-436. [NURC/UNCW J-90-11]
- Fisher, C.R. 1993. Oxidation of methane by deep sea mytilids in the Gulf of Mexico, pp. 606-618. In: R.S. Oremland (ed.) *Biogeochemistry of Global Change: Radiatively Active Trace Gases*. Chapman and Hall Inc., New York. [NURC/UNCW J-93-31]
- Fisher, C.R., L. Urcuyo, M.A. Simpkins, and E. Nix. 1997. Life in the slow lane: growth and longevity of cold seep vestimentiferans. *Mar. Ecol.* 18(1):83-94
- Fisher, C.R. 1996. Ecophysiology of primary production at deep-sea vents and seeps. In: *Deep-sea and extreme shallow-water habitats: affinities and adaptations*. R. Uiblein, J. Ott, and M. Stachowitsch (eds.), *Biosystematics and Ecology Series* 11:311-334.
- Fisher, C.R. and J.J. Childress. 1992. Organic carbon transfer from methanotrophic symbionts to the host hydrocarbon seep mussel. *Symbiosis*. 12(3): 221-235. [NURC/UNCW J-92-10]
- Fisher, C.R., I.R. MacDonald, R. Sassen, C.M. Young, S.A. Macko, S. Hourdez, R.S. Carney, S. Joye, and E. McMullin. 2000. Methane Ice Worms: *Hesiocaeca methanicola* colonizing fossil fuel reserves. *Naturwissenschaften* 87: 184-187.
- Fisher, C.R., J.M. Brooks, J. Vodenichar, J. Zande, J.J. Childress, and R.A. Burke, Jr.. 1993. The co-occurrence of methanotrophic and chemoautotrophic sulfur-oxidizing bacterial symbionts in a deep-sea mussel. *Marine Ecology* 14(4): 277-289. [NURC/UNCW J-93-27]
- Fisher, C.R., M.C. Kennicutt II, and J.M. Brooks. 1990. Stable carbon isotopic evidence for carbon limitation in hydrothermal vent vestimentiferans. *Science* 247(4946): 1094-1096. [NURC/UNCW J-90-09]
- Fitt, W., G.W. Schmidt, O. Hoegh-Guldberg, R.V. Woesik, W.K. Loh, and T.C. LaJeunesse. 2003. Low Symbiont diversity in Southern Great Barrier corals, relative to those of the Caribbean. *Limnol. Oceanogr.* 48(5) 2046-2054. [NURC/UNCW J-03-09]
- Fitt, W.K. and K. Costley. 1998. The role of temperature in survival of the polyp stage of the tropical rhizostome jellyfish *Cassiopea xamachana*. *Journal of Experimental Marine Biology and Ecology*. 222(1-2): 79-91. [NURC/UNCW J-98-17]
- Fitt, W.K. and M.E. Warner. 1995. Bleaching patterns of four species of Caribbean reef corals. *Biol. Bull.* 189(3): 298-307.
- Fitt, W.K., F.K. McFarland, M.E. Warner, and G.C. Chilcoat. 2000. Seasonal patterns of tissue biomass and densities of symbiotic dinoflagellates in reef corals and relation to coral bleaching. *Limnology and Oceanography* 45(3): 677-685. [NURC/UNCW J-00-04]
- Fitt, W.K., H.J. Spero, J. Halas, M.W. White, and J.W. Porter. 1993. Recovery of the coral *Montastrea annularis* in the Florida Keys after the 1987 Caribbean "bleaching event." *Coral Reefs* 12(2): 57-64. [NURC/UNCW J-93-29]
- Fleck, J. W.K. Fitt and M.G. Hahn. 1999. A proline-rich peptide originating from the decomposing mangrove leaves is one natural metamorphic cue of the tropical jellyfish *Cassiopea xamachana*. *Marine Ecology Progress Series*. Vol. 183: 115-124. [NURC/UNCW J-99-06]
- Fleck, J. and W.K. Fitt. 1999. Degrading mangrove leaves of *Rhizophora mangle* Linne provide a natural cue for settlement and metamorphosis of the upside down jellyfish *Cassiopea xamachana* Bigelow. *Journal of Experimental Marine Biology and Ecology*. 234(1): 83-94. [NURC/UNCW J-99-05]
- Forcucci, D. 1994. Population density, recruitment and 1991 mortality event of *Diadema antillarum* in the Florida Keys. *Bull. Mar. Sci.* 54(3): 917-928. [NURC/UNCW J-94-49]
- Formolo M., Lyons T., Zhang C. L., Sassen R., Horita J., and Cole, D. R. (In Press). Stable isotope evidence of anaerobic hydrocarbon oxidation in the Gulf of Mexico cold seeps. *Chem. Geol.*
- Fornes, W.L., D.J. DeMaster, L.A. Levin and N.E. Blair. 1999. Bioturbation and particle transport in Carolina slope sediments: A radiochemical approach. *Journal of Marine Research*. 57(2): 335-355.
- Fourqurean, J. and J.C. Ziemann. 2002. Nutrient content of the seagrass *Thalassia testudinum* reveals regional patterns of relative availability of nitrogen and phosphorus in the Florida Keys USA. *Biogeochemistry*. 61: 229-245. [NURC/UNCW J-02-07]
- Franklin EC, Ault JS, Smith SG, Luo J, Meester GA, Diaz GA, Chiappone M, Swanson DW, Miller SL, Bohnsack JA (In press) Coral reef benthic habitat classification in the Tortugas region, Florida. *Marine Geodesy*.
- Franklin, E.C., J.S. Ault, S.G. Smith, and J. Luo. 2002. Utilization of GIS in a fisheries assessment and management system. Chapter 5 pages 49-54 in *Marine Geography: GIS for the Oceans and Seas* (J. Breman, ed.). ESRI Press. Redlands, CA. 204 p.
- Franklin, E.C., J.S. Ault, S.G. Smith, J. Luo, G.A. Meester, G.A. Diaz, M. Chiappone, D.W. Swanson, S.L. Miller, and J.A. Bohnsack. 2003. Benthic habitat mapping in the Tortugas region, Florida. *Marine Geodesy* 26(1-2):19-34.
- Fredericq, S., N. Phillips and B. Gavio. 2000. Observations of the macroalgae inhabiting deep-water hard bank communities in the Northwestern Gulf of Mexico. *Gulf of Mexico Science* 2000(2): 88-96.
- Freytag, J.K., P. Girguis, D.C. Bergquist, J.P. Andras, J.J. Childress and C.R. Fisher. 2001. Sulfide acquisition by roots of seep tubeworms sustains net chemoautotrophy. *Proc. Nat. Acad. Sci.* 98: 13408-13413. [NURC/UNCW J-01-23]
- Fu, B., P. Aharon, G.R. Byerly, and H.H. Roberts. 1994. Barite chimneys on the Gulf of Mexico slope: Initial report on their petrography and geochemistry. *Geo-Marine Letters* 14(2-3): 81-87. [NURC/UNCW J-94-24]
- Fujita, K. and P. Hallock. 1999. A comparison of phytal substrate preferences of *Archaias angulatus* and *Sorites orbiculus* in mixed macroalgal-seagrass beds in Florida Bay. *J. Foram Res.* 29: 143-151. [NURC/UNCW J-99-13]
- Gamble, R.J. 1999. Larval fish catches in Gulf Stream and shelf waters in Onslow Bay, North Carolina. M.S. thesis, UNCW, 31pp.
- Gardiner, E.S. 1995. Taphonomic analysis of Florida reef corals. Smith College, Northampton, MA. [NURC/UNCW J-95-01]
- Gardiner, S. L. and S. Hourdez. 2003. On the occurrence of the vestimentiferan tube worm *Lamellibrachia luymsi* van der Land and Norrevang, 1975 (Annelida: Pogonophora) in hydrocarbon seep communities in the Gulf of Mexico. *Proc. Biol. Soc. Wash.* 116(2):380-394
- Gardiner, S.L., E. McMullin and C.R. Fisher. 2001. Seepiophila jonesi, a new genus and species of vestimentiferan tube worm (Annelida: Pogonophora) from hydrocarbon seep communities in the Gulf of Mexico. *Proc. Bio. Soc. Wash.* 114: 694-707.
- Gavio B. & S. Fredericq. 2003. *Botryocladia caraibica* (Rhodmeniaceae, Rhodmeniales), a new species from the Caribbean. *Cryptogamie Algologie* 24(2): 93-106.
- Gavio B. 2002. Systematics of the Rhodmeniales-Cryptonemiales complex (Rhodophyta) with emphasis on taxa from the Western Atlantic. Unpubl. Ph.D. Dissertation, University of Louisiana at Lafayette, 278pp.
- Gilmore, R.G. 1993. Reproductive biology of lamnoid sharks. *Env. Biol. Fishes* 38(1-3): 95-114. [NURC/UNCW J-93-22]
- Gittings, S.R., T.J. Bright, W.W. Schroeder, W.W. Sager, J.S. Laswell and R. Rezak. 1992. Invertebrate assemblages and ecological controls on topographic features in the northeast Gulf of Mexico. *Bull. Mar. Sci.* 50(3): 435-455.
- Gleason, D.F. 1992. The control and adaptive significance of morphological variation in the reef coral *Porites astreoides*. Ph.D. Dissertation, University of Houston, Department of Biology, 4800 Calhoun Road, Houston, TX 77204. 169pp. [NURC/UNCW T-92-02]
- Gleason, D.F. 1993. Differential effects of ultraviolet radiation on green and brown morphs of the Caribbean coral *Porites astreoides*. *Limnol. Oceanogr.* 38(7):1452-1463. [NURC/UNCW J-93-19]
- Gleason, D.F. 1998. Sedimentation and distributions of green and brown morphs of the Caribbean coral *Porites astreoides* Lamarck. *J. Exp. Marine Biology*. 230(1):73-89. [NURC/UNCW J-98-20]
- Gleason, D.F. 2001. Ultraviolet radiation and coral communities. In: Cockell, C.S. and A.R. Blaustein (eds.), *Ecosystems, Evolution, and Ultraviolet Radiation*. Springer Verlag, NY, pp. 118-149.
- Gleason, D.F. and G.M. Wellington. 1994. Ultraviolet and coral bleaching: Reply to Dunne. *Nature* 368: 697.

- Gleason, D.F. and G.M. Wellington. 1993. Ultraviolet radiation and coral bleaching. *Nature* 365(6449): 836-838. [NURC/UNCW J-93-10]
- Gleason, D.F. and G.M. Wellington. 1995. Variation in UVB sensitivity of planula larvae of the coral *Agaracia agaricites* along a depth gradient. *Mar. Biol.* 123(4): 693-703. [NURC/UNCW J-95-10]
- Gleason, D.F., D.A. Brazeau, and D. Munfus. 2001. Can self-fertilizing coral species be used to enhance restoration of Caribbean reefs? *Bulletin of Marine Science* 69:933-943.
- Glynn, P.W. and J.S. Ault. 2000. A biogeographic analysis and review of the far eastern Pacific coral reef region. *Coral Reefs* 19(1):1-19.
- Gooday, A.J., L.A. Levin, C.L. Thomas, and B. Hecker. 1992. The distribution and ecology of *Bathysiphon filiformis* Sars and *B. major* de Folin (Protista, Foraminiferida) on the continental slope off North Carolina. *J. Foraminiferal Research* 22(2): 129-146. [NURC/UNCW J-92-07]
- Gooday, A.J., L.A. Levin, P. Linke, and T. Heeger. 1992. The role of benthic foraminifera in deep-sea food webs and carbon cycling. *Math. Phys. Sci.* 360: 63-91.
- Govoni, J.J. and L.J. Pietrafesa. 1994. Eulerian views of layered water currents, vertical distribution of some larval fishes, and inferred advective transport over the continental shelf off North Carolina, USA, in winter. *Fish. Oceanogr.* 3(2): 120-132.
- Graber, E.R. and P. Aharon. 1991. An improved microextraction technique for measuring dissolved inorganic carbon (DIC), $d^{13}C_{DIC}$, and $d^{18}O_{H_2O}$ from milliliter-size water samples. *Isotope Geoscience* 67(1):26-45.
- Grammer, G.M. 1991. Formation and evolution of quaternary carbonate foreslopes, Tongue of the Ocean, Bahamas. Ph.D. Dissertation, Comparative Sedimentology Laboratory, Rosentiel School of Marine and Atmospheric Science, Marine Geology and Geophysics, University of Miami, 4600 Rickenbacker Causeway, Miami, FL 33149. 314pp. [NURC/UNCW T-91-05]
- Grammer, G.M. and R.M. Ginsburg. 1992. Highstand vs. lowstand deposition on carbonate platform margins: Insight from Quaternary foreslopes in the Bahamas. *Marine Geology* 103(1-3):125-136. [NURC/UNCW J-92-02]
- Grammer, G.M., R.N. Ginsburg, and P.M. Harris. 1993. Timing of deposition, diagenesis, and failure of steep carbonate slopes in response to a high-amplitude/high-frequency fluctuation in sea level, Tongue of the Ocean, Bahamas. *AAPG Memoir* 57:107-131. [NURC/UNCW J-93-17]
- Grammer, G.M., R.N. Ginsburg, P.K. Swart, D.F. McNeill, A.J.T. Jull, and D.R. Prezbindowski. 1993. Rapid growth rates of syndepositional marine aragonite cements in steep marginal slope deposits, Bahamas and Belize. *Journal of Sedimentary Petrology* 63(5): 983-989. [NURC/UNCW J-93-18]
- Greenstein, B.J. and H.A. Curran. 1997. How much ecological information is preserved in fossil coral reefs and how reliable is it? *Proc. 8th Internat. Coral Reef Symp.*, 1:417-422, Panama City, Panama. [NURC/UNCW J-97-06]
- Greenstein, B.J. and J.M. Pandolfi. 1997. Preservation of community structure in modern reef coral life and death assemblages of the Florida Keys: Implications for the Quaternary fossil record of coral reefs. *Bul. Mar. Sci.* 61(2): 431-452. [NURC/UNCW J-97-08]
- Greenstein, B.J., H.A. Curran, and J.M. Pandolfi. 1998. Shifting ecological baselines and the demise of *Acropora cervicornis* in the western North Atlantic and Caribbean Province: a Pleistocene perspective. *Coral Reefs*. 17(3): 249-261.
- Greenstein, B.J., J.M. Pandolfi, and H.A. Curran. (In Press). The completeness of the Pleistocene fossil record: Implications for stratigraphic adequacy. In: S.K. Donovan (ed.) *The Accuracy of the Fossil Record*. Wiley & Son, London.
- Greenstein, B.J., L.A. Harris, and H.A. Curran. 1998. Comparison of recent coral life and death assemblages to Pleistocene reef communities: Implications for rapid faunal replacement on recent reefs. *Carbonates and Evaporates*. 13(1):23-31. [NURC/UNCW J-98-10]
- Grottoli, A.G. 1998. Interpretation of stable carbon isotopes in reef coral skeletons and applications for paleoclimate reconstruction. Ph.D. Dissertation, University of Houston.
- Grottoli-Everett, A.G. and G.M. Wellington. 1997. Fish predation on the scleractinian coral *Madracis mirabilis* control its depth distribution in the Florida Keys, USA. *Mar. Ecol. Prog. Ser.* 160: 291-293 [NURC/UNCW J-97-10]
- Gurgel C.F. & S. Fredericq. 2004. Systematics of the Gracilariaceae (Gracilariales, Rhodophyta): a critical assessment based on *rbcL* sequence analysis. *Journal of Phycology* 40:138-159. [NURC/UNCW J-04-05]
- Gurgel C.F., S. Fredericq & J.N. Norris. 2000. Gracilaria from the Gulf of Mexico, with special emphasis on *Gracilaria tikvahiae* based on two molecular datasets *Journal of Phycology*. Vol. 36, no. 3, suppl., 27 p. Jun
- Gurgel C.F., S. Fredericq & J.N. Norris. 2003. *Gracilariopsis silvana*, *G. hommersandii* and *G. cata-luziana*, three new species of Gracilariaceae (Gracilariales, Rhodophyta) from the Western Atlantic. *Hidrobiológica* vol. 13: 53-64 (special Festschrift to honor P.C. Silva).
- Gurgel C.F.D. 2001. Phylogeny, Taxonomy and Biogeography of the Gracilariaceae (Gracilariales, Rhodophyta) with emphasis on taxa from the Western Atlantic. Unpubl. Ph.D. Dissertation, University of Louisiana at Lafayette, 272 pp.
- Gurgel C.F.D., S. Fredericq and J.N. Norris. 2004. Molecular systematics, taxonomy and new flat species of *Gracilaria* Greville (Gracilariaceae, Gracilariales, Rhodophyta) from the Western Atlantic, in: I.A. Abbott & K. McDermid, Eds, *Taxonomy of Economic Seaweeds IX (with reference to the Pacific and other locations)*, pp. 159-199.
- Gurgel, C.F., L. Liao, S. Fredericq and M.H. Hommersand. 2003. Systematics of *Gracilariopsis Dawson* (Gracilariales, Rhodophyta) based on *rbcL* sequence analysis and morphological evidence. *Journal of Phycology* 39: 154-171. [NURC/UNCW J-03-20]
- Gust, G. and M. Morris. 1989. Erosion thresholds and entrainment rates of undisturbed in-situ sediments. *J. Coastal Research* 5:87-99.
- Hall, M.O., M.J. Durako, J.W. Fourqurean, and J.C. Zieman. 1999. Decadal changes in seagrass distribution and abundance in Florida Bay. *Estuaries*. 22(2B): 445-459. [NURC/UNCW J-99-16]
- Hallock, P. 1999. Chapter 8. Symbiont-bearing foraminifers. For B.K. Sen Gupta (ed) *Modern Foraminifera*, Kluwer Press, Amsterdam, p. 123-139. [NURC/UNCW J-99-12]
- Hallock, P. 2000. Larger Foraminifers as indicators of coral-reef vitality. In: R. Martin (ed.) *Environmental Micropaleontology, Topics in Geobiology*. Plenum Press. p. 121-150. [NURC/UNCW J-00-13]
- Hallock, P. 2000. Symbiont-bearing Foraminifera: Harbingers of global change. *Micropaleontology* 46(Suppl. 1): 95-104. [NURC/UNCW J-00-12]
- Hallock, P. (In Press). Section 1.1.8.4. Evolution and function of coral reefs. In V. Cilek (ed), *Encyclopedia of Life Support Systems*, UNESCO, EOLSS Publishers Co. Ltd.
- Hallock, P. 2001. Coral reefs in the 21st century: Is the past the key to the future? pp. viii-xxiii , in: *Proceedings of the 10th Symposium on the Geology of the Bahamas and Other Carbonate Regions*, edited by B.J. Greenstein and C.K. Carney. Gerace Research Center, San Salvador, Bahamas. [NURC/UNCW J-01-18]
- Hallock, P. 2001. Coral reefs, carbonate sedimentation, nutrients, and global change, pp:387-427; In: G. M. Stanley, Jr. (ed.) *Ancient Reef Ecosystems, Topics in Geobiology*. Plenum Publishing Corp. [NURC/UNCW J-01-10]
- Hallock, P. and H.K. Talge. 1994. A predatory foraminifera, *Floresina amphiphaga* n.sp., from the Florida Keys. *Journal of Foraminiferal Research* 24(4): 210-213. [NURC/UNCW J-94-51]
- Hallock, P. and M.W. Peebles. 1993. Foraminifera with chlorophyte endosymbionts: Habitats of six species in the Florida Keys. *Marine Micropaleontology* 20(3-4): 277-292. [NURC/UNCW J-93-26]
- Hallock, P., A.C. Hine, G.A. Vargo, J.A. Elrod, and W.C. Jaap. 1988. Platforms of the Nicaraguan Rise: Examples of the sensitivity of carbonate sedimentation to excess trophic resources. *Geology* 16(12): 1104-1107. [NURC/UNCW J-88-04]
- Hallock, P., B.H. Lidz, E.M. Cockey-Burkhard, and K.B. Donnelly. 2003. Foraminifera as bioindicators in coral reef assessment and monitoring: The FORAM Index. *Environmental Monitoring and Assessment* 81(1-3): 221-238.
- Hallock, P., H.K. Talge, D.E. Williams, and J.N. Harney. 1998. Borings in *Amphistegina* (Foraminiferida): evidence for predation by *Floresina amphiphaga* (Foraminiferida). *Historical Biology* 13: 73-76. [NURC/UNCW J-98-21]

- Hallock, P., H.K. Talge, E.M. Cockey, and R.G. Muller. 1995. A new disease in reef-dwelling foraminifera: Implications for coastal sedimentation. *Journal of Foraminiferal Research* 25(3): 280-286. [NURC/UNCW J-95-25]
- Hallock, P., M. Dotherow McField and S. Sampson. 1999. The prototype radiometer that survived Hurricane Georges. *The Slate*, A News Publication of the American Academy of Underwater Sciences. p. 1. [NURC/UNCW J-99-14]
- Harney, J. 1996. Morphological variability in stressed *Amphistegina gibbosa* (Foraminiferida) in the Florida Keys. Master's Thesis, Department of Marine Science, University of South Florida, 60pp.
- Harney, J.N., P. Hallock, and H.K. Talge. 1998. Observations on a trimorphic life cycle in *Amphistegina gibbosa* populations from the Florida Keys. *Jour. Foram. Res.* 28(2): 141-147. [NURC/UNCW J-98-07]
- Harris, M.W. 1992. Sedimentary products and processes along a current-dominated open seaway, Bawihka Channel, northern Nicaraguan Rise, Caribbean Sea. Ph.D. Dissertation, University of South Florida, Department of Marine Science, 140 Seventh Avenue South, St. Petersburg, FL 33701-5016. 244pp. [NURC/UNCW T-92-05]
- Harvell C.D., K. Kim, C. Quirolo, G.W. Smith, J Weir. 2001. Mass mortality of *Briareum asbestinum* associated with the 1998 Caribbean coral bleaching. *Hydrobiologia*.
- Harvell, C.D., K. Kim, J.M. Burkholder, R.R. Colwell, P.R. Epstein, D.J. Grimes, E.E. Hofmann, E.K. Lipp, A.D. M.E. Osterhaus, R.M. Overstreet, J.W. Porter, G.W. Smith and G.R. Vasta. 1999. Emerging Marine Diseases -- Climate links and Anthropogenic Factors. *Science* 285: 1505-1510. [NURC/UNCW J-99-09]
- Hay ME, J Parker, D Burkepile, C Caudill, A Wilson, Z Hallinan, A Chequer. (in press) Mutualisms and aquatic community structure: the enemy of my enemy is my friend. *Annual Review of Ecology, Evolution, and Systematics*.
- Hay, M.E. 1994. Species as 'noise' in community ecology: do seaweeds block our view of the kelp forest? *TREE*. 9(11): 414-416. [NURC/UNCW J-94-33]
- Hay, M.E. (In Press). The ecology and evolution of seaweed-herbivore interactions on coral reefs. *Coral Reefs*.
- Hay, M.E. 1996. Defensive synergisms?: Reply to Pennings. *Ecology* 77(6):1950-1952.
- Hay, M.E. 1996. Marine chemical ecology: What's known and what's next? *J. Exp. Mar. Biol. Ecol.* 200(1-2): 103-134.
- Hay, M.E. 2001. *Ecología química marina: paralelos y contrastes con los sistemas terrestres*. Pp. 633-714. In: A.L. Anaya, F. Espinosa-García, and R.Cruz-Ortega, editors. *Relaciones Químicas entre Organismos: Aspectos Básicos y Perspectivas de su Aplicación*. Instituto de Ecología, UNAM y Plaza y Valdés, S.A. de C.V. México.
- Hay, M.E. and C. Kicklighter. 2001. Grazing, effects of. *Encyclopedia of Biodiversity*, Volume 3, pages 265-276. Academic Press, San Diego, CA.
- Hay, M.E. and W. Fenical. 1996. Chemical ecology and marine biodiversity: Insights and products from the sea. *Oceanography* 9(1): 10-20. [NURC/UNCW J-96-17]
- Hay, M.E., J. Piel, W. Boland, and I. Schnitzler. 1998. Seaweed sex pheromones and their degradation products frequently suppress amphipod feeding but rarely suppress sea urchin feeding. *Chemoecology* 8: 91-98. [NURC/UNCW J-98-12]
- Hay, M.E., J.J. Stachowicz, E. Cruz-Rivera, S. Bullard, M.S. Deal, and N. Lindquist. (In Press) Bioassays with marine and freshwater organisms: Part I, The chemical ecology of macro organisms. In: J.G. Millar and K.F. Haynes (eds.) *Methods in Chemical Ecology*. Chapman and Hall, New York.
- Hay, M.E., Q.E. Kappel, and W. Fenical. 1994. Synergisms in plant defenses against herbivores: Interactions of chemistry, calcification, and plant quality. *Ecology* 75(6): 1714-1726. [NURC/UNCW J-94-16]
- Heidelberg, K. , J. Purcell and K.P. Sebens. (In Press). Composition and sources of near reef zooplankton on a Jamaican fore-reef. *Coral Reefs*.
- Heidelberg, K. B., K. P. Sebens, and J. E. Purcell. 1997. Effects of prey escape behavior and water flow on prey capture by the scleractinian coral, *Meandrina meandrites*.
- Helmuth, B. and K.P. Sebens. 1992. The influence of colony morphology and orientation to flow on particle capture by the coral *Agaricia agaricites* (Linnaeus). *J. Exp. Mar. Biol. Ecol.* 165:1-28.
- Helmuth, B. S. T, K. P. Sebens, and T. L. Daniel. 1997. Morphological variation in coral aggregations: branch spacing and mass flux to coral tissues.
- Henrikson, A.A. and J.R. Pawlik. 1995. A new antifouling assay method: Results from field experiments using extracts of four marine organisms. *J. Exp. Mar. Biol. and Ecol.* 194(2):157-165.
- Hernandez, F.J., Jr. 1996. Comparison of two light-trap designs for the capture of the presettlement stages of reef fishes. Master's Thesis, University of North Carolina at Wilmington, Wilmington, NC, 36pp.
- Hernandez, F.J., Jr. and D.G. Lindquist. 1999. A comparison of two light-trap designs for sampling larval and presettlement juvenile fish above a reef in Onslow Bay, North Carolina. *Bulletin of Marine Science*. 64(1):173-184. [NURC/UNCW J-99-02]
- Herring, J.R., P. Popenoe, and F.T. Manheim. 1994. Middle Miocene phosphate accumulation on the Georgia continental shelf-deposition mechanism and associated productivity. *Transactions, American Geophysical Union* 25(3):110-111.
- Herring, J.R., P. Popenoe, F.T. Manheim, P.F. Huddleston, C.G. Whitney, and J.V. Henery. 1993. Georgia continental shelf sediments: their lithology and geochemistry and their record of the creation and demise of a giant Miocene phosphogenic system. *Geological Society of America Bulletin*.
- Herrnkind, W., M.J. Butler, J. Hunt, and M. Childress. 1997. Role of physical refugia: implications from a mass sponge die-off in a lobster nursery in Florida. *J. Mar. Freshwat. Res.* 48(8):759-769.
- Herrnkind, W.F. and M.J. Butler IV. 1994. Settlement of spiny lobster, *Panulirus argus* (Latreille, 1804) in Florida: Pattern without predictability?. *Crustaceana* 67(1):46-64.
- Herrnkind, W.F., P. Jernakoff, and M.J. Butler IV. 1995. Puerulus and post-puerulus ecology. In: B. Phillips, S. Cobb, and J. Kittaka (eds.) *Spiny Lobster Management: Current Situation and Perspectives*. Blackwell Press, Oxford. pp.213-229. [NURC/UNCW J-95-23]
- Hine, A.C. 1996. Structural, stratigraphic, paleoceanographic development of the margins of the Florida Platform. In: Randazzo, A.F., and Jones, D.S. (eds.), *Geology of Florida*, University of Florida Press, Gainesville, FL.
- Hine, A.C., P. Hallock, M.W. Harris, H.T. Mullins, D.F. Belknap, and W.C. Jaap. 1988. *Halimeda* bioherms along an open seaway: Miskito Channel, Nicaraguan Rise, SW, Caribbean Sea. *Coral Reefs* 6(3-4): 173-178. [NURC/UNCW J-88-05]
- Hine, A.C., S.D. Locker, L.P. Tedesco, H.T. Mullins, P. Hallock, D.F. Belknap, J.L. Gonzales, A.C. Neumann, and S.W. Snyder. 1992. *Megabreccia* shedding from modern, low-relief carbonate platforms, Nicaraguan Rise. *Bull. Geol. Soc. Am.* 104(8): 928-943. [NURC/UNCW J-92-06]
- Hine, R.C., M.W. Harris, S.D. Locker, P. Hallock, M. Peebles, L. Tedesco, H.T. Mullins, S.W. Snyder, D.F. Belknap, J.L. Gonzales, A.C. Neumann, and J. Martinez. 1994. Sedimentary infilling of an open seaway: Bawihka Channel, Nicaraguan Rise. *Journal of Sedimentary Research* B64(1): 2-25. [NURC/UNCW J-94-04]
- Hodgson, A.N., K.J. Eckelbarger, and C.M. Young. 1998. Sperm morphology and spermiogenesis in the methane-seep mollusc *Bathyerita naticoidea* (Gastropoda: Neritimorpha) from the Louisiana Slope. *Invertebrate Biol.* 117: 199-207.
- Hogans, W.E. and K.J. Sulak. 1992. *Diocis lycenchelus*, new species (Copepoda: Chondracanthidae) parasitic on the eelpout *Lycenchelys verrilli* (Zoarcidae) from the Hatteras slope of the northwest Atlantic Ocean. *Bull. Mar. Sci.* 51(3): 301-308. [NURC/UNCW J-92-29]
- Holzmann, M., J. Hohenegger, P. Hallock, W.E. Piller and J. Pawlowski. 2001. Molecular phylogeny of large miliolid foraminifera. (Soritacea Ehrenberg 1839). *Marine Micropaleontology* 43: 57-74. [NURC/UNCW J-01-17]
- Hourdez, S., L.A. Frederick, A. Scherneck, and C.R. Fisher. 2001. Functional respiratory anatomy of a deep sea orbiniid polychaete from the Brine Pool NR-1 in the Gulf of Mexico. *Invert. Biol.* 120:29-40.
- Hourdez, S., R.E. Weber, B.N. Green, J.M. Kenney and C.R. Fisher. 2002. Respiratory adaptations in a deep-sea Orbiniid polychaete from Gulf of Mexico Brine Pool NR-1: Metabolic rates and hemoglobin structure-function. *J. Exp. Biol.* 205: 1669-1681 [NURC/UNCW J-02-20]
- Howard, R.O., Jr. 1990. Petrology of hardbottom rocks, Mississippi-Alabama-Florida continental shelf. M.S. Thesis, Dept. of Geology, The University of Alabama, Tuscaloosa, AL. 125pp.
- Hughes, T., A.M Szmant, R. Steneck, R.C. Carpenter, and S.L. Miller. 1999. Algal blooms on coral reefs: What are the causes? *Limnology and Oceanography* 4(6):1583-1586.
- Hughes, T.P., A.H. Baird, D.R. Bellwood, M. Card, S.R. Connolly, C. Folke, R. Grosberg, O. Hoegh-Guldberg, J.B.C. Jackson, J. Kleypas, J.M. Lough, P. Marshall, M. Nyström, S.R. Palumbi, J.M. Pandolfi, B. Rosen, J. Roughgarden. 2003. Climate Change, Human Impacts, and the Resilience of Coral Reefs; *Science* 301: 929-933

- Hyun, J.H. 1994. Bacterial activity, growth and production in unique environments. Ph.D. Dissertation, Florida State University, Department of Microbiology. [NURC/UNCW T-94-07]
- Illife, T.M. 1990. Crevicular dispersal of marine cave faunas. *Memoires de Biospeologie* XVII: 93-96. [NURC/UNCW J-90-02]
in Belize. *Coral Reefs*. Vol. 22, no. 1, pp. 35-47. [NURC/UNCW J-03-18]
International Symposium Series [NURC/UNCW J-95-19]
invertebrates. *Science* 295:1253-1257.
J. Exp. Mar. Biol. Ecol. 209:233 - 259
- Jeffrey, W.H. 1998. Induction of DNA photodamage in marine microbial communities by ultraviolet radiation, pp: 26-30, in *Landmarks in Photobiology*, Proceedings of the 12th International Congress on Photobiology, H. Honigsmann, R.M Knobler, F. Trautinger, and G.Jori (eds). Organizzazione Editoriale Medico Farmaceutica, Sede Legale, Produzione e Redazione: Via Palizzi, 88-20157 Milano (Italy). [NURC/UNCW J-98-03]
- Jinks, R.N., T.L. Markley, E.E. Taylor, G. Perovich, A.I. Dittel, C.E. Epifanio and T.W. Cronin. 2002. Adaptive visual metamorphosis in a deep-sea hydrothermal vent crab. *Nature* 420:68-70. [NURC/UNCW J-02-27]
- Johnson, A.S. and K.P. Sebens. 1993. Consequences of a flattened morphology: Effects of flow on feeding rates of the scleractinian coral *Meandrina meandrites*. *Mar. Ecol. Prog. Ser.* 99(1-2): 99-114. [NURC/UNCW J-93-23]
- Johnston, M.K. 1997. Inherited geological framework of the New River submarine headland complex, North Carolina, and its influence on modern sedimentation: unpub. M.S. Thesis, Dept. of Earth Sciences, UNCW, Wilmington, NC, 87pp.
- Julian, D., F. Gaill, E. Wood, A. Arp, and C.R. Fisher. 1999. Roots as a site of hydrogen sulfide uptake in the hydrocarbon seep vestimentiferan *Lamellibrachia* sp. *J. Exp. Biol.* 202: 2245-2257.
- Justic, D., N.N. Rabalais, R.E. Turner and Q. Dortch. 1994. Riverborne, hypoxia and coastal ecosystem evolution: Biological responses to long-term changes in nutrient loads carried by the Po and the Mississippi Rivers, pp: 161-167, In: Olsen and Olsen (eds.), *Changes in fluxes in estuaries: Implications from science to management*. Fredensborg, Denmark
- Justic, D., N.N. Rabalais, and R.E. Turner. 1993. Seasonal coupling between riverborne nutrients, net productivity and hypoxia. *Marine Pollution Bulletin* 26(4):184-189. [NURC/UNCW J-93-09]
- Justic, D., N.N. Rabalais, and R.E. Turner. 1995. Stoichiometric nutrient balance and origin of coastal eutrophication. *Mar. Pollut. Bull.* 30(1): 41-46. [NURC/UNCW J-95-14]
- Justic, D., N.N. Rabalais, R.E. Turner, and Q. Dortch. 1995. Changes in nutrient structure of river-dominated coastal waters: Stoichiometric nutrient balance and its consequences. *Estuarine, Coastal and Shelf Sciences*. 40(3): 339-356. [NURC/UNCW J-95-11]
- Kapela, W. and H.R. Lasker. 1999. Size-dependent reproduction in the Caribbean gorgonian *Pseudoplexura porosa*. *Marine Biology*. 135: 107-114. [NURC/UNCW J-99-17]
- Kapraun, D.F. 1993. Karyology of marine green algae. *Phycologia* 32(1): 1-21. [NURC/UNCW J-93-14]
- Kapraun, D.F. and M.N. Nguyen. 1994. Karyology, nuclear DNA quantification and nucleus-cytoplasmic domain variations in some multinucleate green algae (Siphonocladales, Chlorophyta). *Phycologia* 33(1): 42-52. [NURC/UNCW J-94-13]
- Keener-Chavis, P. and S. Miller. 2004. *Aquarius: America's Inner Space Station*. Current: *The Journal of Marine Education*, 20(1), 61p.
- Kelchner, C.E. 1993. Organic-rich depositional regimes, NC continental slope: Evaluating source sites and sediment transport pathways. M.S. Thesis, North Carolina State University, Box 8208, Raleigh, NC 27695-8208. 149pp. [NURC/UNCW T-93-01]
- Kelly, S.R., P.R. Jensen, T.P. Henkel and J.R. Pawlik. 2003. Effects of Caribbean sponge extracts on bacterial attachment. *Aquatic Microbial Ecology* 31:175-182. [NURC/UNCW J-03-03]
- Kennicut II, M.C., J.M. Brooks, R.R. Bidigare, and G.J. Denoux. 1988. Gulf of Mexico hydrocarbon seep communities: I. Regional distribution of hydrocarbon seepage and associated fauna. *Deep-Sea Res.* 35(9A): 1639-1651. [NURC/UNCW J-88-07]
- Kennicut II, M.C., J.M. Brooks, and G.J. Denoux. 1988. Leakage of deep, reservoired petroleum to the near surface on the Gulf of Mexico continental slope. *Mar. Chem.* 24: 39-59. [NURC/UNCW J-88-06]
- Kennicut II, M.C., R.A. Burke, Jr., I.R. MacDonald, J.M Brooks, G.J. Denoux, and S.A. Macko. 1992. Stable isotope partitioning in seep and vent organisms: Chemical and ecological significance. *Chem. Geol.* 101(3/4): 293-310. [NURC/UNCW J-92-22]
- Kensley, B. and G.M. Simmons, Jr. 1988. *Axiorygma nethertoni*, a new genus and species of Thalassinidean shrimp from Florida (Decapoda: Axiidae). *J. Crustacean Biol.* 8(4): 657-667. [NURC/UNCW J-88-08]
- Kesling, D. 2000. Scientific diving. *MTS Journal* 34(4): 3-4. [NURC/UNCW J-00-11]
- Kicklighter CE, J Kubanek, T Barsby, ME Hay 2003. Palatability and defense of some tropical infaunal worms: *alykylpyrrole sulfamates* as deterrents to fish feeding. *Marine Ecology Progress Series* 263:299-306. [NURC/UNCW J-03-12]
- Kicklighter, C. E., J. Kubanek, and M. E. Hay. 2004. Do brominated natural products defend marine worms from consumers? Some do, most don't. *Limnology and Oceanography* 49: 430-441
- Kim K, CD Harvell. 2001. Aspergillosis of sea fan corals: dynamics in the Florida Keys. In: *Connections Between Ecosystems in the South Florida Hydroscares: The River of Grass Continues*, edited by Porter JW & K Porter, CRC Press.
- Kim K. A Dobson, FMD Gulland, CD Harvell. (In Press). Disease and the conservation of marine diversity. In: *Conservation of Marine Ecosystems*, edited by E. Norse and L. Crowder. Island Press.
- Kim, K., C.D. Harvell, P.D. Kim, G.W. Smith, and S.M. Merkel. 2000. Fungal disease resistance of Caribbean sea fan corals (Gorgonian spp.). *Marine Biology* 137: 393-401.
- Kim, K., P.D. Kim, A.P. Alker, and C.D. Harvell. 2000. Chemical resistance of gorgonian corals against fungal infections. *Marine Biology* 137: 393-401.
- Kirsch, K.D., J.F. Valentine and K.L. Heck Jr. 2002. Parrotfish grazing on turtlegrass *Thalassia testudinum*: evidence for the importance of seagrass consumption in food web dynamics of the Florida Keys National Marine Sanctuary. *Mar. Ecol. Prog. Ser.* Vol. 227, pp. 71-85. [NURC/UNCW J-02-23]
- Kirsch, Kevin D. 1999. Seagrass consumption by herbivorous fish: and underestimated trophic pathway in the Florida Keys in the Florida Keys National Marine Sanctuary. MS Thesis. University of South Alabama, Mobile, Alabama, 61 pages.
- Kloster, MB. 1999. Continental shelf water dynamics and submarine groundwater discharge in the South Atlantic Bight. Ph.D. dissertation, University of North Carolina at Chapel Hill, D Marine Sciences, 185pp.
- Kochevar, R.E., J.J. Childress, C.R. Fisher, and E. Minnich. 1992. The methane mussel: Roles of symbiont and host in the metabolic utilization of methane. *Mar. Biol.* 112(3): 389-401. [NURC/UNCW J-92-11]
- Koenig, C.C., A.N. Shepard, J.K. Reed, F.C. Coleman, K.M. Scanlon, J. Brusher. (In press) Habitat and Fish Populations in the Deep-sea *Oculina* Coral Ecosystem of the Western Atlantic. Proceedings of the Benthic Habitat Meetings, Tampa Florida. AFS, ESA, NMFS.
- Koenig, C.C., F.C. Coleman, C.B. Grimes, G.R. Fitzhugh, C.T. Gledhill, K.M. Scanlon, and M. Grace. 2000. Protection of essential fish spawning habitat for the conservation of warm temperate reef fish fisheries of shelf-edge reefs of Florida. *Bull. Mar. Sci.* 66:593-616.
- Kohl, B. and H.H. Roberts. 1995. Mud volcanoes in the Gulf of Mexico: A mechanism for mixing sediments of different ages in slope environments. *Gulf Coast Assoc. of Geological Societies Transactions*. XLV: 351-360 [NURC/UNCW J-95-28]
- Kohl, B. and H.H. Roberts. 1994. Fossil foraminifera from four active mud volcanoes in the Gulf of Mexico. *Geo-Marine Letters* 14(2-3): 126-134. [NURC/UNCW J-94-30]
- Kubanek, J., K.E. Whalen, S. Engel, S.R. Kelly, T.P. Henkel, W. Fenical and J.R. Pawlik. 2002. Multiple defensive roles of triterpene glycosides from two Caribbean sponges. *Oecologia*, 131:125-136. [NURC/UNCW J-02-01]
- Kubanek, J., Pawlik, J.R., Eve, T.M., and Fenical, W. 2000. Triterpene glycosides defend the Caribbean reef sponge *Erylus formosus* from predatory fishes. *Marine Ecology Progress Series*, 207: 69-77. [NURC/UNCW J-00-18]

- Kubanek, J., W. Fenical, and J. Pawlik. 2001. New antifeedant triterpene glycosides from the Caribbean sponge *Erylus Formosus*. *Natural Product Letters*, 15: 275-285. [NURC/UNCW J-01-06]
- Kuta, K.G. and L.L. Richardson. 2002. Ecological aspects of black band disease of corals: relationship between disease incidence and environment. *Coral Reefs* 21:393-398. [NURC/UNCW J-02-17]
- Kuta, K.G. and L.L. Richardson. 1997. Fate of black band diseased corals in the Florida Keys. *Proceedings of the 8th International Coral Reef Symposium*. 1:575-578.
- Kvitek, R.G., C.K. Bretz, and P.J. Iamietto. 1999. Underwater crater discovered at McMurdo Station on the slopes of Cape Armitage, Ross Island, Antarctica. *Antarctic Journal of the U.S.* 1998 Semiannual Review Issue (2).
- Larkin, J.M. and M.C. Henk. 1989. Is "hollowness" an adaptation of large prokaryotes to their largeness? *Microbios Letters* 42: 69-72. [NURC/UNCW J-89-10]
- Larkin, J.M. and M.C. Henk. 1996. Filamentous sulfide-oxidizing bacteria at hydrocarbon seeps of the Gulf of Mexico. *Microscopy Res. Tech.* 33(1): 23-31.
- Larkin, J.M., P. Aharon, and M.C. Henk. 1994. *Beggiatoa* in microbial mats at hydrocarbon vents in the Gulf of Mexico and warm mineral springs, Florida. *Geo-Marine Letters* 14(2-3): 97-103. [NURC/UNCW J-94-26]
- LaRock, P.A., J.H. Hyun, and B.W. Bennison. 1994. Bacterioplankton growth and production at the Louisiana hydrocarbon seeps. *Geo-Marine Letters* 14(2-3):104-109. [NURC/UNCW J-94-27]
- Lasker, H.R. and Coffroth, M.A. 1999. Responses of clonal reef taxa to environmental change. *American Zoologist* 39: 92-103.
- Lasker, H.R., K. Kim, and M.A. Coffroth. 1996. Reproductive and genetic variation among Caribbean gorgonians: The differentiation of *Plexaura kuna*, new species. *Bull. Mar. Sci.* 58(1): 277-288. [NURC/UNCW J-96-10]
- Lee, J.J., J. Morale, A. Symons, and P. Hallock. 1995. Diatom symbionts in larger foraminifera from Caribbean hosts. *Mar. Micropaleon.* 26(1): 99-105. [NURC/UNCW J-95-27]
- Lee, J.J., J. Morales, S. Bacus, A. Diamont, P. Hallock, J. Pawlowski, and J. Thorpe. 1997. Progress in characterizing the endosymbiotic dinoflagellates of soritid foraminifera and related studies on some stages in the life cycle of *Marginopora verebralis*. *Jour. Foram. Res.* 27(4): 254-263. [NURC/UNCW J-97-05]
- Lee, R.W. and J.J. Childress. 1994. Assimilation of inorganic nitrogen by marine invertebrates and their chemoautotrophic and methanotrophic symbionts. *Appl. Envir. Micro.* 60(6): 1852-1858. [NURC/UNCW J-94-09]
- Lee, R.W., E.V. Thuesen, J.J. Childress, and C.R. Fisher. 1992. Ammonium and free amino acid uptake by a deep sea mussel (*Bathymodiolus* sp., undescribed) containing methanotrophic bacterial symbionts. *Mar. Biol.* 113(1): 99-106. [NURC/UNCW J-92-12]
- Leichter, J.J. 1992. Subtidal Suspension Feeders in the Gulf of Maine: Relation of Water Flow to Distributions, Abundance, and Growth Rates Within and Between Rock Walls. M.S. Thesis, Northwestern University, Boston, MA. 101 pp. [NURC/UNCW T-92-06]
- Leichter, J.J. 1997. Coastal ocean physical forcing: International waves on a Florida coral reef. Ph.D. Thesis. Stanford University.
- Leichter, J.J., and S.L. Miller. 1999. Predicting high frequency upwelling: Spatial and temporal patterns of temperature anomalies on a Florida coral reef. *Cont. Shelf Res.* 19: 911-928. [NURC/UNCW J-99-19]
- Leichter, J.J., G. Shellenbarger, S.J. Genovese, S.R. Wing. 1998. Breaking internal waves on a Florida (USA) coral reef: a plankton pump at work? *Mar. Ecol. Prog. Ser.* 166: 83-97. [NURC/UNCW J-98-18]
- Leichter, J.J., H.L. Stewart and S.L. Miller. 2003. Episodic nutrient transport to Florida coral reef. *Limnol. Oceanogr.* 48: 1394-1407.
- Leichter, J.J., S.R. Wing, S.L. Miller, and M.W. Denny. 1996. Pulsed delivery of subthermocline water to Conch Reef, Florida Keys, by internal tidal bores. *Limnol. and Oceanogr.* 41(7): 1490-1501. [NURC/UNCW J-96-12]
- Lesser, M. 2000. Depth-dependent photoacclimatization to solar ultraviolet radiation in the Caribbean coral *Montastraea faveolata*. *Mar. Ecol. Prog. Ser.* 192: 137-151. [NURC/UNCW J-00-03]
- Lesser, M.P., V.M. Weis, M.R. Patterson, and P.L. Jokiel. 1994. Effects of water motion on carbon delivery and productivity in the reef coral, *Pocillopora damicornis*: diffusion barriers, inorganic carbon limitation, and biochemical plasticity. *Journal of Experimental Marine Biology and Ecology* 178: 153-179.
- Leuck, K.M. 1994. Microhabitats of living (stained) foraminifers in surface sediments of the 23-Mile Reef Area, North Carolina Continental Shelf. M.S. Thesis, East Carolina University, Greenville, NC., 199pp. [NURC/UNCW T-94-02]
- Levin, L., G. Plaia and C. Huggett. (In Press). The influence of natural organic enhancement on life histories and community structure of bathyal polychaetes, pp. 261-283. In: C.Young and K.Eckleberger (eds.) *Invertebrate Reproduction, Larval Biology and Recruitment in the Deep-Sea Benthos*. Columbia University Press.
- Levin, L.A. 1991. Interactions between metazoans and large, agglutinating protozoans: Implications for the community structure of deep-sea benthos. *Am. Zoo.* 31(6): 886-900. [NURC/UNCW J-91-04]
- Levin, L.A., G. Plaia and C. Huggett. 1994. The influence of natural organic enhancement on life histories and population structure of bathyal polychaetes, pp. 261-283. In: C. Young and K. Eckleberger (ed.) *Invertebrate Reproduction, Larval Biology and Recruitment in the Deep-Sea Benthos*. Columbia Univ. Press, New York.
- Levin, L.A., N.E. Blair, C.M. Martin, D.J. DeMaster, G. Plaia and C.J. Thomas. 1999. Distribution of absorbed ammonium pools in two intertidal sedimentary structures, Marennes-Oleron Bay, France. *Marine Ecology*. 182: 37-54.
- Levin, P.S. and M.E. Hay. 1996. Responses of temperate reef fishes to alternations in algal structure and species composition. *Mar. Ecol. Prog. Ser.* 134(1-3): 37-47. [NURC/UNCW J-96-13]
- Levin, P.S. and M.E. Hay. 2002. Fish-seaweed associations on temperate reefs: do small-scale experiments predict large-scale patterns?. *Marine Ecology Progress Series* 232:239-246. [NURC/UNCW J-02-13]
- Levin, P.S. and M.E. Hay. 2002. Local-scale versus large-scale factors affecting recruitment: Fish-seaweed associations on temperate reefs. *Marine Ecology Progress Series* 232:239-246
- Lidz, B. H. Reich C. D., and Shinn E. A. 2003 Regional Quaternary Submarine Geomorphology in the Florida Keys Geological Society of America Bulletin (June issue).
- Lidz, B.H. and P. Hallock. 2000. Sedimentary Petrology of a Declining Reef Ecosystem, Florida Reef Tract (U.S.A.). *J. Coast. Res.* 16(3): 675-697.
- Lidz, B.H., E.A. Shinn, A.C. Hine, and S.D. Locker. 1997. Contrasts within an outlier-reef system: evidence for differential quaternary evolution, South Florida Windward Margin, USA. *Journ. of Coast. Res.* 13(3): 711-731. [NURC/UNCW J-97-02]
- Lin S.M. & S. Fredericq. 2003. *Nitophyllum hommersandii* sp. nov. (Delesseriaceae, Rhodophyta) from Taiwan. *European Journal of Phycology* 38:143-151.
- Lindel, T., Hoffmann, H., Hochgürtel, M., Pawlik, J.R. 2000. Structure-activity relationship of the inhibition of fish feeding by sponge-derived and synthetic pyrrole-imidazole alkaloids. *Journal of Chemical Ecology*, 26: 1477-1496.
- Lindeman, K.C., G.A. Diaz, J.E. Serafy and J.S. Ault 1999. A spatial framework for assessing cross-shelf habitat use among newly settled grunts and snappers. *Gulf and Caribbean Fisheries Institute* 50:385-416.
- Lindeman, K.C., P.A. Kramer and J.S. Ault. 2001. Comparative approaches to reef monitoring and assessment: an overview. *Bulletin of Marine Science* 69(2):335-338.
- Lindeman, K.C., R. Pugliese, G.T. Waugh and J.S. Ault 2000. Developmental pathways within a multispecies reef fishery: management applications for essential habitats and marine reserves. *Bulletin of Marine Science* 66(3):929-956.
- Lindeman, K.C., T.N. Lee, W.D. Wilson, R. Claro, and J.S. Ault. 2001. Transport of larvae originating in southwest Cuba and the Dry Tortugas: evidence for partial retention in grunts and snappers. *Gulf and Caribbean Fisheries Institute* 52:732-747.
- Lindquist, D.G. and I.E. Clavijo. 1993. Quantifying deep reef fishes from a submersible and notes on a live collection and diet of the red barbler, *Hemanthias vivanus*. *J. Elisha Mitchell Sci. Soc.* 109(3):135-140. [NURC/UNCW J-93-30]
- Lindquist, D.G. and L.J. Pietrafesa. 1989. Current vortices and fish aggregations: The current field and associated fishes around a tugboat wreck in Onslow Bay, North Carolina. *Bull. of Mar. Sci.* 44(2): 533-544. [NURC/UNCW J-89-03]
- Lindquist, D.G., L.B. Cahoon, I.E. Clavijo, M.H. Posey, S.K. Bolden, L.A. Pike, S.W. Burk, and P.A. Cardullo. 1994. Reef fish stomach contents and prey abundance on reef and sand substrata associated with adjacent artificial and natural reefs in Onslow Bay, North Carolina. *Bull. Mar. Sci.* 55(2-3): 308-318. [NURC/UNCW J-94-12]

- Lindquist, N. 1996. Palatability of invertebrate larvae to corals and sea anemones. *Mar. Biol.* 126(4): 745-755. [NURC/UNCW J-96-15]
- Lindquist, N. and M.E. Hay. 1995. Can small rare prey be chemically defended? The case for marine larvae. *Ecol.* 76(4):1347-1358. [NURC/UNCW J-95-26]
- Lindquist, N. and M.E. Hay. 1996. Palatability and chemical defense of marine invertebrate larvae. *Ecol. Monographs* 66(4): 431-450. [NURC/UNCW J-96-14]
- Lindquist, N., E. Lobkovsky, and J. Clardy. 1996. Tridentatols A-C, novel natural products of the marine hydroid *Tridentata marginata*. *Tetrahedron Letters* 37(51): 9131-9134. [NURC/UNCW J-96-09]
- Lindquist, N., R. Bolser, and K. Laing. 1997. Timing of larval release by two Caribbean demosponges. *Mar. Ecol. Prog. Ser.* 155: 309-313.
- Lirman, D. and M. Miller. 2003. Modeling and Monitoring Tools to Assess Recovery Status and Convergence Rates between Restored and Undisturbed Coral Reef Habitats. *Restoration Ecology*. Vol. 11, Issue 4, pp. 448-456.
- Locker, S.D., A.C. Hine, L.P. Tedesco, and E.A. Shinn. 1996. Magnitude and timing of episodic sea-level rise during the late deglaciation. *Geology*, vol. 24, no. 9, pp. 827-830, Sep
- Lockhart, F.D., W.J. Lindberg, N.J. Blake, R.B. Erdman, H.M. Perry, and R.S. Walker. 1990. Distributional differences and population similarities for two deep-sea crabs (family Geryoniidae) in the northeastern Gulf of Mexico. *Can. J. of Fish. and Aqu. Sci.* 47(11): 2112-2122. [NURC/UNCW J-90-10]
- Lohman, K.J., N.D. Pentcheff, G.A. Nevitt, G.D. Stetten, R.K. Zimmerfaust, H.E. Jarrard and L.C. Boles. 1995. Magnetic orientation of spiny lobsters in the ocean: Experiments with undersea coil systems. *J. Exp. Biol.* 198(10): 2041-2048. [NURC/UNCW J-95-21]
- Lueck, K.L.O. 1995. Vertical Distribution of stained benthic foraminifera in sediments of the 23-Mile-Rock area, Onslow Bay, North Carolina. M.S. Thesis.
- Lueck, K.O., and S.W. Snyder. 1997. Lateral variations among populations of stained benthic foraminifera in surface sediments of the North Carolina continental shelf (U.S.A.). *Journal of Foraminiferal Research*. 27(1): 20-41.
- Lyons, M.M., P. Aas, J.D. Pakulski, L. Van Wassenbergen, R.V. Miller, D.L. Mitchell, and W. H. Jeffrey. 1998. DNA damage induced by ultraviolet radiation in coral-reef microbial communities. *Mar. Bio.* 130(3): 537-543. [NURC/UNCW J-98-02]
- MacAvoy, S.E., R.S. Carney, C.R. Fisher and S.A. Macko. 2002. Use of chemosynthetic biomass by large, mobile benthic predators in the Gulf of Mexico. *Mar. Ecol. Prog. Ser.* 225: 65 [NURC/UNCW J-02-22]
- MacDonald, I.R., J.S. Baker, G.S. Boland, J.M. Brooks, M.C. Kennicutt II, and R.R. Bidigare. 1989. Gulf of Mexico hydrocarbon seep communities: II. Spatial distribution of seep organisms and hydrocarbons at Bush Hill. *Mar. Biol.* 101(2): 235-247. [NURC/UNCW J-89-04]
- MacDonald, I.R. 1990. Spatial ecology of hydrocarbon seeps in the northern Gulf of Mexico. Ph.D. Dissertation, Texas A&M University, GERG, 833 Graham Road, College Station, TX 77843. 135 pp. [NURC/UNCW T-90-04]
- MacDonald, I.R. 1992. Sea-floor brine pools affect behavior, mortality, and preservation of fishes in the Gulf of Mexico: Lagerstätten in the making? *Palaio* 7(4): 383-387. [NURC/UNCW J-92-21]
- MacDonald, I.R. 1998. Habitat formation at Gulf of Mexico hydrocarbon seeps. *Cah. Biol. Mar.* 39: 337-340. [NURC/UNCW J-98-28]
- MacDonald, I.R. and C. Fisher. 1996. Life without light. *Nat. Geographic*. 190(4): 86-97. [NURC/UNCW J-96-01]
- MacDonald, I.R., D.B. Buthman, W.W. Sager, M.B. Peccini, and N.L. Guinasso Jr. 2000. Pulsed oil discharge from a mud volcano. *Geology* 28(10):907-910. [NURC/UNCW J-00-07]
- MacDonald, I.R., I. Leifer, R. Sassen, P. Stine, R. Mitchell & N. Guinasso. 2002. Transfer of hydrocarbons from natural seeps to the water column and atmosphere. *Geofluids* 2 (2), 95-107. [NURC/UNCW J-02-09]
- MacDonald, I.R., J.F. Reilly II, N.L. Guinasso, Jr., J.M. Brooks, R.S. Carney, W.A. Bryant, and T.J. Bright. 1990. Chemosynthetic mussels at a brine-filled pockmark in the Northern Gulf of Mexico. *Science* 248(4959): 1096-1099. [NURC/UNCW J-90-04]
- MacDonald, I.R., N.L. Guinasso, Jr., J.F. Reilly, J.M. Brooks, W.R. Callender, and S.G. Gabrielle. 1990. Gulf of Mexico hydrocarbon seep communities: VI. Patterns in community structure and habitat. *Geo-Marine Letters* 10(4): 244-252. [NURC/UNCW J-90-15]
- MacDonald, I.R., N.L. Guinasso, Jr., R. Sassen, J.M. Brooks, L. Lee, and K.T. Scott. 1994. Gas hydrate that breaches the sea floor on the continental slope of the Gulf of Mexico. *Geology* 22(8): 699-702. [NURC/UNCW J-94-08]
- MacDonald, I.R., N.L. Guinasso, Jr., S.G. Ackleson, J.F. Amos, R. Duckworth, R. Sassen, and J.M. Brooks. 1993. Natural oil slicks in the Gulf of Mexico visible from space. *J. of Geo. Res.* 98(9): 16351-16364. [NURC/UNCW J-93-12]
- MacDonald, I.R., W.R. Callender, R.A. Burke, S.J. McDonald, and R.S. Carney. 1990. Fine scale distribution of methanotrophic mussels at a Louisiana cold seep. *Prog. Oceanog.* 24(1-4): 15-24. [NURC/UNCW J-90-03]
- MacDonald, I.R., W.W. Sager and M.B. Peccini. (2003). Gas hydrate and chemosynthetic biota in mounded bathymetry at mid-slope hydrocarbon seeps: Northern Gulf of Mexico. *Marine Geology* 198 pp.133-158. [NURC/UNCW J-03-10]
- Maldonado, M. and C.M. Young. 1998. A new species of poecilosclerid sponge (Porifera) from bathyal methane seeps in the Gulf of Mexico. *J. Mar. Biol. Assoc. U.K.* 78(3): 795-806.
- Mallinson, D.; A. Hine, P. Hallock, S. Locker, E. Shinn, D. Naar, B. Donahue and D. Weaver. 2003. Development of small carbonate banks on the south Florida platform margin: response to sea level and climate change. *Marine Geology* 199 pp.45-63. [NURC/UNCW J-03-24]
- Manning, C.B. 2003. Topographic Analysis of the Oculina Habitat Area of Particular Concern Using a Multimedia Geographic Information System (GIS) Ph.D. Dissertation, University of North Carolina at Wilmington, 78pp. [NURC/UNCW T-03-01]
- Marshall, N.J., T.W. Cronin and T.N. Frank. 2003. Visual adaptations in Crustaceans: Chromatic, developmental, and temporal aspects. In: *Sensory Processing in the Aquatic Environment* (S. Collins and N.J. Marshall, eds). Springer-Verlag, Berlin. pp. 343-372.
- Mastro, S.J. and D.A. Dinsmore. 1989. The operational advantages of Enriched Air Nitrox versus air for research diving. *MTS Journal* 23(4): 42-46.
- Mazell, C.H., T.W. Cronin, R.L. Caldwell and N.J. Marshall. 2004. Fluorescent Enhancement of Signaling in a Mantis Shrimp. *Science* 303(January 2):51 [NURC/UNCW J-04-01]
- McDonald, S.J. 1990. Benzo[a]pyrene metabolism in a deep sea mussel associated with natural petroleum seeps in the Gulf of Mexico. PhD Dissertation, Texas A&M University, College Station, TX, 153 pp.
- McFall, G. 1992. Size-related differential macrohabitat utilization in *Mycteroperca microlepis* and *M. phenax*. M.S. Thesis, University of North Carolina at Wilmington, 601 S. College Road, Wilmington, NC 28403. 27pp. [NURC/UNCW T-92-03]
- McGovern, J.C., D.M. Wyanski, O. Pashuk, C.S. Manooch II, and G.R. Sedberry. 1998. Changes in the sex ration and size at maturity of gag, *Mycteroperca microlepis*, from the Atlantic coast of the southeastern United States during 1976-1995. *Fish. Bull.* 96(4): 797-807.
- McKenzie, J.D. and M.S. Kelly. 1994. Comparative study of sub-cuticular bacteria in brittlestars (Echinodermata: Ophiuroidea). *Mar. Biol.* 120(1): 65-80. [NURC/UNCW J-94-40]
- McMullin, E., D.C. Bergquist and C.R. Fisher. 2000. Metazoans in extreme environments: adaptations of hydrothermal vent and hydrocarbon seep fauna. *Grav. Space Biol. Bull.* 13: 13-24.
- McMullin, E.R., S. Hourdez, S.W. Schaeffer and C.R. Fisher. 2003. Phylogenetics and biogeography of deep sea vestimentiferan tubeworms and their bacterial symbionts. *Symbiosis*. 34:1-41.
- McNeill, D.F. 1990. Biogenic magnetite from surface Holocene carbonate sediments, Great Bahama Bank. *J. of Geophys. Res.* 95(B4): 4363-4371. [NURC/UNCW J-90-05]
- Meester, G.A., A. Mehrotra, J.S. Ault and E.K. Baker (in press). Designing marine reserves for fishery management. *Management Science*.
- Meester, G.A., J.S. Ault, and J.A. Bohnsack. 1999. Visual censusing and the extraction of average length as a biological indicator of stock health. *Naturalista Sicilia* 23:205-222.
- Meester, G.A., J.S. Ault, S.G. Smith and A. Mehrotra. 2001. Integration of simulation and operations research into spatial fishery management decision making. *Sarsia* 86:543-558.

- Mellor, C.A. and C.K. Paull. 1994. Sea beam bathymetry of the Manteo 467 lease block off Cape Hatteras, North Carolina. *Deep Sea Res.* 41(4-6):711-718. [NURC/UNCW J-94-19]
- Miller S.L., D.W. Swanson, M. Chiappone, J.S. Ault, S.G. Smith, G.A. Meester, J. Luo, E.C. Franklin, J.A. Bohnsack, D.E. Harper, and D.B. McClellan. 2001. An extensive deep reef terrace on the Tortugas Bank, Florida Keys National Marine Sanctuary. *Coral Reefs* 20:299-300. [NURC/UNCW J-01-25]
- Miller, M.W. 1994. Ecology of a temperate coral. Ph.D. Dissertation, University of North Carolina at Chapel Hill, Curriculum in Ecology, Chapel Hill, NC 27599. 158pp. [NURC/UNCW T-94-08]
- Miller, M.W. 1995. Growth of a temperate coral: effects of temperature, light, depth, and heterotrophy. *Mar. Ecol. Prog. Ser.*: 122(1-3): 217-225. [NURC/UNCW J-95-12]
- Miller, M.W. 2001. Corallivorous snail removal: evaluation of impact on *Acropora palmate*. *Coral Reefs* 19:293-295. [NURC/UNCW J-01-26]
- Miller, M.W. and M.E. Hay. 1996. Coral-seaweed-grazer-nutrient interactions on temperate reefs. *Ecol. Monographs*, 66(3): 323-344. [NURC/UNCW J-96-02]
- Miller, M.W. and M.E. Hay. 1998. Effects of fish predation and seaweed competition on the survival and growth of corals. *Oecologia* 113(2): 231-238. [NURC/UNCW J-98-09]
- Miller, M.W., I.B. Baums, D.E. Williams and A.M. Szmant. 2002. Status of Candidate coral, *Acropora palmate*, and its snail predator in the upper Florida Keys National Marine Sanctuary: 1998-2001. NOAA Technical Memorandum NMFS-SEFSC- 479, pp. 26
- Miller, M.W., M.E. Hay, S.L. Miller, D. Malone, E.E. Sotka, and A.M. Szmant. 1999. Effects of nutrients vs. herbivores on reef algae: A new method for manipulating nutrients on coral reefs. *Limnology and Oceanography* 44: 1847-1861.
- Miller, S.L. and C. Cooper. 2000. The Aquarius underwater laboratory: America's "inner space" station. *MTS Journal* 34(4): 69-74. [NURC/UNCW J-00-09]
- Miller, S.L. and M.P. Crosby. 1998. The extent and condition of U.S. coral reefs. In: NOAA's State of the Coast Report (peer reviewed). NOAA. Silver Spring, MD. pp 1-34.
- Miller, S.L., S. Gittings, M. Chiappone, B. Causey, D.W. Swanson and A. White. (in press) Changes to benthic cover on a deep coral reef in the Florida Keys. *Coral Reefs*
- Mills, H.J., C. Hodges, K. Wilson, I.R. MacDonald and P.A. Sobczyk. 2003. Microbial Diversity in Sediments Associated with Surface Breaching Gas Hydrate Mounds in the Gulf of Mexico. *FEMS Microbiology Ecology* 52:39-52.
- Mills, M. M. and K. P. Sebens. 1997. Particle ingestion efficiency of the corals *Siderastrea siderea* and *Agaricia agaricites*: Effects of flow speed and sediment loads. *Proc. 8th Int. Coral Reef Symposium*, Panama City, 1996 Vol. 2:1059 - 1064.
- Mitchell, N.D., M.R. Dardeau, and W.W. Schroeder. 1993. Colony morphology, age structure, and relative growth of two gorgonian corals, *Leptogorgia hebes* (Verrill) and *Leptogorgia virgulata* (Lamarck), from the northern Gulf of Mexico. *Coral Reefs*. 12(2): 65-70. [NURC/UNCW J-93-05]
- Mitchell, N.D., M.R. Dareau, W.W. Schroeder, and A.C. Benke. 1992. Secondary production of gorgonian corals in the northern Gulf of Mexico. *Mar. Ecol. Prog. Ser.* 87(3): 275-281. [NURC/UNCW J-92-19]
- Mobley, K.B. 2001. Ultraviolet radiation and carotenoid pigmentation in symbiotic anthozoans. Georgia Southern University, Statesboro, GA. 108 pp.
- Mobley, K.B. and D.F. Gleason. 2003. The effect of light and zooplankton on carotenoid concentrations in the Caribbean anemone *Aiptasia pallida* (Verrill). *Marine Biology*. Vol 143, part 4, pp. 629-638. [NURC/UNCW J-03-17]
- Moon, R.E., R.D. Vann and P.B. Bennett. 1995. The physiology of decompression illness. *Scient. Amer.* 273(2): 70-77. [NURC/UNCW J-95-13]
- Moore, R.B., K.M. Ferguson, W.K.W. Loh, O. Hoegh-Guldberg and D.A. Carter. 2003. Highly organized structure in the non-coding region of the psbA minicircle from clade C Symbiodinium. *Int J Syst Evol Microbiol* 2003 53: 1725-1734.
- Moore, T. 1994 Reproductive biology of the hermaphroditic wrasse *Halichoeres bivittatus* on a temperate North Carolina reef. M.S. Thesis, University of North Carolina at Wilmington, 601 S. College Road, Wilmington, NC 28403. [NURC/UNCW T-94-10]
- Moore, W.S., J. Krest, G. Taylor, E. Roggenstein, S. Joye, and R. Lee. 2002. Thermal evidence of water exchange through a coastal aquifer: Implications for nutrient fluxes. *Geophysical Research Letters*, 29, 10.1029/2002GL014923.
- Moore, W.S.. 1999. The subterranean estuary: a reaction zone of ground water and sea water. *Marine Chemistry: An International Journal for Studies of the Marine Environment*. 65(1-2):111-125. [NURC/UNCW J-99-03].
- Morse, J. and G.T. Rowe. 1999. Benthic biogeochemistry beneath the Mississippi River Plume. *Estuaries*. 22, 206-214.
- Morse, J., G. Boland and G.T. Rowe. 1999. A "gilled" benthic chamber for extended measurement of sediment-water fluxes. *Marine Chemistry*. 66, 225-230.
- Moser, M.L., P.J. Auster and J.B. Bichy. 1998. Effects of mat morphology on large *Sargassum*-associated fishes: observations from a remotely operated vehicle (ROV) and free-floating video cameras. *Env. Biol. Fish.* 51(4): 391-398. [NURC/UNCW J-98-08]
- Moser, M.L., S.W. Ross, and K.J. Sulak. 1996. Metabolic responses to hypoxia of *Lycenchelys verrillii* (wolf eelpout) and *Glyptocephalus cynoglossus* (witch flounder): Sedentary bottom fishes of the Hatteras/Virginia Middle Slope. *Mar. Ecol. Prog. Ser.* 144(1-3): 57-61.
- Moyer, M.A., N.J. Blake, and W.S. Arnold. 1993. An ascetosporan disease causing mass mortality in the Atlantic calico scallop, *Argopecten gibbus* (Linnaeus, 1758). *Journal of Shellfish Research* 12(2): 305-310. [NURC/UNCW J-93-25]
- Multer, H. G., Gischler, E., Lundberg, J., Simmons, K. R., and Shinn, E. A. 2002. Key Largo Limestone revisited: Pleistocene shelf-edge facies, Florida Keys, USA. *Facies* 46:229-272.
- Murdoch, T. J. T. and R. B. Aronson. 1999. Scale-dependent spatial variability of coral assemblages along the Florida Reef Tract. *Coral Reefs* 18:341-351.
- Murosky, M.W. 1993. Vertical distribution of living (stained) benthic foraminifera in surface sediments of southern Onslow Bay, North Carolina Continental Shelf. M.S. Thesis, East Carolina University, Greenville, NC. 101pp. [NURC/UNCW T-93-04]
- Murosky, M.W. and S.W. Snyder. 1994. Vertical distribution of stained benthic foraminifera in surface sediments of southern Onslow Bay, North Carolina continental shelf. *Journal of Foraminiferal Research* 24(3): 158-170. [NURC/UNCW J-94-06]
- Murray, J.D., J.J. Bahen, and R.A. Rulifson. 1992. Management considerations for by-catch in the North Carolina and southeast shrimp fishery. *Fisheries* 17(1): 21-26. [NURC/UNCW J-92-24]
- Nelson, D.C. and C.R. Fisher. 1995. Chemoautotrophic and methanotrophic endosymbiotic bacteria at deepsea vents and seeps. pp. 165-167. In: D.M. Karl (ed.) *Microbiology of Deep-Sea Hydrothermal Vent Habitats*. CRC Press, Boca Raton. [NURC/UNCW J-95-07]
- Nelson, K. and C.R. Fisher. 2000. Speciation of the bacterial symbionts of deep-sea vestimentiferan tube worms. *Symbiosis* 28: 1-15.
- Neurauter, T.W. and H.H. Roberts. 1994. Three generations of mud volcanoes on the Louisiana continental slope. *Geo-Marine Letters* 14(2-3): 120-125. [NURC/UNCW J-94-29]
- Nevitt, G.A., N.D. Pentcheff, K.J. Lohman and R.K. Zimmerfaust. 1995. Evidence for hydrodynamic orientation by spiny lobsters in a patch reef environment. *Journ. of Exper. Biol.* 198(10): 2049-2054. [NURC/UNCW J-95-22]
- Newbold, R.W., Jensen, P.R., Fenical, W., Pawlik, J.R. 1999. Antimicrobial activity of Caribbean sponge extracts. *Aquatic Microbial Ecology*, 19: 279-284
- Niebuhr, D.H. 1999. Environmental stress in hard coral: evaluating lipid as an indicator of sub-lethal stress on short time scales. Ph.D. dissertation, School of Marine Science, College of William & Mary, 152 pp.
- Nikolaus, R., J.W. Ammerman and I.R. MacDonald. 2003. Distinct pigmentation and trophic modes in *Beggiatoa* from hydrocarbon seeps in the Gulf of Mexico: *Aquatic Microbial Ecology*, v. 32, p. 85-93. [NURC/UNCW J-03-27]
- Nix, E. 1994. Variation in growth, condition and population structure in a mussel with methanotrophic endosymbionts at three hydrocarbon seep sites in the Gulf of Mexico. M.S. Thesis, Pennsylvania State University, University Park, PA. [NURC/UNCW T-94-03]
- Nix, E.R. C.R. Fisher, J. Vodenichar, and K.M. Scott. 1995. Physiological ecology of a mussel with methanotrophic endosymbionts at three hydrocarbon seep sites in the Gulf of Mexico. *Mar. Biol.* 122(4): 605-617. [NURC/UNCW J-95-05]
- O'Neal, W. and J.R. Pawlik. 2002. A reappraisal of the chemical and physical defenses of Caribbean gorgonian corals against predatory fishes. *Marine Ecology Progress Series*. 240:117-126. [NURC/UNCW J-02-04]

- Opresko, D.M. 1993. A new species of *Sibopathes* (Cnidaria: Anthozoa: Antipatharia: Antipathidae) from the Gulf of Mexico. *Proc. Biol. Soc. Wash.* 106(1): 195-203. [NURC/UNCW J-93-07]
- Page, H.M., C.R. Fisher, and J.J. Childress. 1990. Role of filter-feeding in the nutritional biology of a deep-sea mussel with methanotrophic symbionts. *Mar. Biol.* 104(2): 251-257. [NURC/UNCW J-90-06]
- Pakulski, J.D., P. Aas, W. Jeffrey, M. Lyons, L. Von Waasenbergen, D. Mitchell, and R. Coffin. 1998. Influence of light on bacterioplankton production and respiration in a subtropical coral reef. *Aquatic Micro. Ecol.* 14(2): 137-148. [NURC/UNCW J-98-01]
- Pandolfi, J.M. and B.J. Greenstein. 1997. Preservation of community structure in death assemblages of deep water Caribbean reef corals. *Limnol. and Oceanog.* 42(7): 1505-1516. [NURC/UNCW J-97-09]
- Park, M., W. Fenical, and M.E. Hay. 1992. Debromoisocymobarbatol, a new chromanol feeding deterrent from the marine alga *Cymopolia barbata*. *Phytochemistry* 31(12): 4115-4118. [NURC/UNCW J-92-26]
- Parker, S.J., A.W. Shultz, and W.W. Schroeder. 1992. Sediment characteristics and seafloor topography of a palimpsest shelf, Mississippi-Alabama continental shelf, pp. 243-251, In: C.H. Fletcher and J.F. Wehmiller (eds.), *Quaternary Coasts of the United States: Marine and Lacustrine Systems*, SEPM Special Publication 48.
- Parsons, K.M., Powell, E.N., Brett, C.E., Walker, S., Raymond, A. Callender, R., and Staff, G., 1997. Shelf and Slope Experimental Taphonomy Initiative (SSETI): Bahamas and Gulf of Mexico, *Proc. 8th Intl. Coral Reef Symposium*, Vol. 2, p. 1807-1812. [NURC/UNCW J-97-07]
- Parsons-Hubbard, K.M., Callender, W.R., Powell, E.N., Brett, C.E., Walker, S.E., Raymond, A.L., and Staff, G.M., 1999. Rates of Burial and Disturbance of Experimentally-Deployed Molluscs: Implications for Preservation Potential, *Palaos*, 14:337-351. [NURC/UNCW J-99-08]
- Parsons-Hubbard, K.M., E. N. Powell, G.M. Staff, W.R. Callender, C. E. Brett and S.E. Walker. 2001. The Effect of Burial on Shell Preservation and Epibiont Cover in Gulf of Mexico and Bahamas Shelf and Slope Environments After Two Years: An Experimental Approach, pp. 297-314; In: J.Y. Aller, S. A. Woodin, R.C. Aller (ed.) *Organism-Sediment Interactions*. University of South Carolina. [NURC/UNCW J-01-11]
- Patterson, M.R. 1992. A chemical engineering view of cnidarian symbioses. *Am. Zoo.* 32(4): 566-582. [NURC/UNCW J-92-20]
- Patterson, M.R. 1992. A mass transfer explanation of metabolic scaling relations in some aquatic invertebrates and algae. *Science* 255(5050): 1421-1423. [NURC/UNCW J-92-01]
- Patterson, M.R. 1984. Patterns of whole colony prey capture in the octocoral *Alcyonium siderium*. *The Biological Bulletin* 167: 613-629.
- Patterson, M.R. 1985. The effects of flow on the biology of passive suspension feeders. Ph.D. Dissertation, Organismic and Evolutionary Biology, Harvard University, Cambridge, Massachusetts. 342 pp.
- Patterson, M.R. 1985. The effects of flow on the biology of passive suspension feeders. Ph.D. Dissertation, Organismic and Evolutionary Biology, Harvard University, Cambridge, Massachusetts. 342 pp.
- Patterson, M.R. 1991. Passive suspension feeding by an octocoral in plankton patches: empirical test of a mathematical model. *The Biological Bulletin* 180: 81-92.
- Patterson, M.R. 1991. The effects of flow on polyp-level prey capture in an octocoral, *Alcyonium siderium*. *The Biological Bulletin* 180: 93-102.
- Patterson, M.R., and K.P. Sebens. 1989. Forced convection modulates gas exchange in cnidarians. *Proceedings of the National Academy of Sciences (USA)* 86: 8833-8836.
- Patterson, M.R., J.H. Sias, and D.V. Gouge. 2001. AUVs and scientific diving: a looming conflict? *Journal of the Marine Technology Society* 34: 75-81.
- Patterson, M.R., K.P. Sebens, and R.R. Olson. 1991. *In situ* measurements of forced convection on primary production and dark respiration in reef corals. *Limnol. Oceanogr.* 36:936-948.
- Paul, J. H., J. B. Rose, S. C. Jiang, C. A. Kellogg, and L. Dickson. 1993. Distribution of viral abundance in the reef environment of Key Largo, Florida. *Applied and Environmental Microbiology* 59(3): 718-724. [NURC/UNCW J-93-01]
- Paul, J.H., J.B. Rose, J. Brown, E.A. Shinn, S. Miller, and S.R. Farrah. 1995. Viral tracer studies indicate contamination of marine waters by sewage disposal practices in Key Largo, Florida. *Appl. Env. Microbiol.* 61(6):2230-2234. [NURC/UNCW J-95-02]
- Paul, J.H., J.B. Rose, S. Jiang, C. Kellogg, and E.A. Shinn. 1995. Occurrence of fecal indicator bacteria in surface waters and the subsurface aquifer in Key Largo, Florida. *Appl. Env. Microbiol.* 61(6): 2235-2241. [NURC/UNCW J-95-01]
- Paul, V.J. and M. Hay. 1986. Seaweed susceptibility to herbivory: Chemical and morphological correlates. *Mar. Ecol. Prog. Ser.* 33(3): 255-264. [NURC/UNCW J-86-02]
- Pawlick, J.R., G. McFall and S. Zea. 2002. Does the odor from sponges of the genus *Ircinia* protect them from fish predators?. *Journal of Chemical Ecology*, 28:1103-1115. [NURC/UNCW J-02-02]
- Pawlik, J.R. 1997. Fish predation on Caribbean reef sponges: an emerging perspective of chemical defenses. *Proc. 8th Internat. Coral Reef Symp.*, 2:1255-1258, Panama City, Panama.
- Pawlik, J.R. 1998. Coral reef sponges: Do predatory fishes affect their distribution? *Limnol. Oceanogr.* 43(6):1396-1399. [NURC/UNCW J-98-04]
- Pawlik, J.R., B. Chanas, R.J. Toonen and W. Fenical. 1995. Defenses of Caribbean sponges against predatory reef fish: I. Chemical deterrence. *Mar. Microbiology* 48(3): 362-367. [NURC/UNCW J-01-16]
- Peckol, P. and J. Ramus. 1988. Abundances and physiological properties of deep-water seaweeds from Carolina outer continental shelf. *J. Exp. Mar. Biol. Ecol.* 115(1): 25-39. [NURC/UNCW J-88-09]
- Peebles, M.W. 1993. Carbonate sedimentology and foraminiferal ecology of deep, current-swept platforms, northern Nicaraguan Rise, Caribbean Sea. Ph.D. Dissertation, University of South Florida, Department of Marine Science, 140 Seventh Avenue South, St. Petersburg, FL 33701-5016. 184pp. [NURC/UNCW T-93-05]
- Peebles, M.W., P. Hallock, and A.C. Hine. 1997. Benthic foraminiferal assemblages from current-swept carbonate platforms of the northern Nicaraguan Rise, Caribbean Sea. *Journal of Foraminiferal Research.* 27(1): 42-50. [NURC/UNCW J-97-04]
- Pentcheff, N.D., D.S. Wethey and C.M. Finelli. 2001. Flow effects on coral physiology: field measurements on a natural coral reef. *American Society of Limnology and Oceanography, Annual Meeting, Albuquerque, NM*, February 12.
- Phillips, N. and S. Fredericq. 2000. Phylogenetic and biogeographic investigations of the pantropic algal genus *Sargassum* (Fucales, Phaeophyceae) with relevance to the Gulf of Mexico. *Gulf of Mexico Science* 2000 (2): 77-87.
- Pietrafesa, L.J., J.M. Morrison, M.P. McCann, J. Churchill, E. Bohm and R.W. Houghton. 1994. Water mass linkages between the Middle and South Atlantic Bights. *Deep-Sea Res.* 41(2/3): 365-389. [NURC/UNCW J-94-41]
- Pike, L.A. 1991. The feeding ecology of spottail pinfish (Pisces: Sparidae): Comparison between a natural and artificial reef in Onslow Bay, North Carolina. M.S. Thesis, University of North Carolina at Wilmington, 601 S. College Road, Wilmington, NC 28403. 37pp. [NURC/UNCW T-91-02]
- Pike, L.A. and D.G. Lindquist. 1994. Feeding ecology of spottail pinfish (*Diplodus holbrooki*) from an artificial reef and natural reef in Onslow Bay, North Carolina. *Bull. Mar. Sci.* 55(2-3): 363-374. [NURC/UNCW J-94-21]
- Pile, A. J. 1997. Finding Reiswig's missing carbon: quantification of sponge feeding using dual-beam flow cytometry. *Proceedings of the 8th International Coral Reef Symposium* 2:1403-1410.
- Pile, A.J. (In Press). Finding Reiswig's missing carbon: Quantification of sponge feeding using dual-beam flow cytometry. *Proceedings of the 8th International Coral Reef Symposium*, Panama.
- Pile, A.J. 1996. The role of microbial food webs in benthic-pelagic coupling on freshwater and marine ecosystems. Ph.D. Thesis. The College of William and Mary, Williamsburg, Virginia, USA, 166pp.
- Pile, A.J. and C.M. Young. 1999. Plankton availability and retention efficiencies of cold-seep symbiotic mussels. *Limnology and Oceanography.* 44(7): 1833-1839.
- Pile, A.J., M.R. Patterson, and J.D. Witman. 1996. *In situ* grazing on plankton < 10 µm by the boreal sponge *Mycale lingua*. *Marine Ecology Progress Series* 141: 95-102.

- Pile, A.J., M.R. Patterson, M. Savarese, V.I. Chernykh, and V.A. Fialkov. 1997. Trophic effects of sponge feeding within Lake Baikal's littoral zone: 2. Sponge abundance, diet, feeding efficiency, and carbon flux. *Limnology and Oceanography* 42(1): 178-184
- Pilkey, O. H. 1993. Can we predict the behavior of sand: In a time and volume framework of use to mankind? *Journal of Coastal Research* 9(1): ii-iii. [NURC/UNCW J-93-02]
- Pilkey, O. H., R. S. Young, S. R. Riggs, A. W. S. Smith, H. Wu, and W. D. Pilkey. 1993. The concept of shoreface profile of equilibrium: A critical review. *Journal of Coastal Research* 9(1): 255-278. [NURC/UNCW J-93-03]
- Pisut, D.P. and J.R. Pawlik. 2002. Anti-predatory chemical defenses of ascidians: Secondary metabolites or inorganic acids? *Journal of Experimental Marine Biology and Ecology*. 207: 203-214. [NURC/UNCW J-02-03]
- Pitts, P.A. 2001. Interactions between Florida Bay and Atlantic shelf waters in response to Tropical Storm Gordon. *Estuarine, Coastal and Shelf Science* 52:225-235.
- Pitts, P.A. 1994. An investigation of near-bottom flow patterns along and across Hawk Channel, Florida Keys. *Bull. Mar. Sci.* 54(3): 610-620. [NURC/UNCW J-94-42]
- Pitts, P.A. and N.P. Smith. 1995. Air-water heat energy fluxes in lower Florida Keys: Fall and winter months. *Bull. Mar. Sci.* 56(3):767-777. [NURC/UNCW J-95-24]
- Pope, R.H. 1990. Rates and modes of sediment mixing at two organic rich continental margin sites. M.S. Thesis, North Carolina State University, Raleigh, NC 27602. 123pp. [NURC/UNCW T-90-03]
- Popenoe, P. and F.T. Manheim. 2001. Origin and history of the Charleston Bump - Geological formations, currents, bottom conditions, and their relationship to wreckfish habitats on the Blake Plateau. *AFS Symposium* 25: 43-94. [NURC/UNCW J-01-03]
- Porter, J.W. and O.W. Meier. 1992. Quantification of loss and change in Floridian reef coral populations. *Am. Zoo.* 32: 625-640. [NURC/UNCW J-92-23]
- Posey, M.H. and W.G. Ambrose, Jr. 1994. Effects of proximity to an offshore hard-bottom reef on infaunal abundances. *Mar. Biol.* 118(4): 745-753. [NURC/UNCW J-94-14]
- Potts, T. 1991. The structural influences of artificial and natural habitats on fish aggregations in Onslow Bay, North Carolina. M.S. Thesis, University of North Carolina at Wilmington, 601 S. College Road, Wilmington, NC 28403. 38pp. [NURC/UNCW T-91-03]
- Potts, T.A. and A.W. Hulbert. 1994. The structural influences of artificial and natural habitats on fish aggregations in Onslow Bay, North Carolina. *Bull. Mar. Sci.* 55(2-3):609-622. [NURC/UNCW J-94-20]
- Powell, E.N., G.M. Staff, R.J. Stanton, Jr. and W.R. Callender. 2001. Application of trophic transfer efficiency and age structure in the trophic analysis of fossil assemblages. *Lethaia* 34:97-118.
- Powell, E.N., K.M. Parson-Hubbard, W. R. Callender, G.M. Staff, G.T. Rowe, C.E. Brett, S.E. Walker, A. Raymond, D.D. Carlson, S. White and E.A. Heise. 2002. Taphonomy on the continental shelf and slope: two-year trends – Gulf of Mexico and Bahamas. *Palaeogeography, Palaeoclimatology, Palaeoecology*. 184: 1-35. [NURC/UNCW J-02-05]
- Powell, E.N., R.D. Barber, M.C. Kennicutt II. and S.E. Ford. 1999. Influence of parasitism in controlling the health, reproduction and PAH body burden of petroleum seep mussels. *Deep-Sea Research*. 46(12): 2053-2078. [NURC/UNCW J-99-11]
- Powell, E.N., W.R. Callender, and R.J. Stanton Jr. 1998. Can shallow- and deep-water chemoautotrophic and heterotrophic communities be discriminated in the fossil record? *Palaeogeogr. Palaeoclimatol. Palaeoecol.* 144(1-2): 85-114. [NURC/UNCW J-98-27]
- Precht, W.F. and S.L. Miller. 2003. Ecological shifts along the Florida reef tract: Is the past the key to the future? In: R.B. Aronson (ed) *The destruction of coral reef ecosystems: Paleocological perspectives on the human role in a global crisis*. Springer Verlag, NY.
- Prescott, M., M. Ling, T. Beddoe, A.J. Oakley, S. Dove, O. Hoegh-Guldberg, R.J. Devenish, and J. Rossjohn. 2003. The 2.2 Å crystal structure of a pocilloporin pigment reveals a nonplanar chromophore conformation. *Structure* 11, 275-84.
- Price, W.S. 1999. The influence of tentacle shape, soft-tissue polyp, and corallite morphology, on microscale currents over corals, and implications for particle feeding: a physical model approach. Ph.D. dissertation, Ecology Graduate Group, University of California, Davis., 151 pp. *Proc. 8th Int. Coral Reef Symp. Panama City, 1996.* 2:1081 - 1086.
- Pruski, A.M., A. Fiala-Medioni, C.R. Fisher, and J.C. Colomines. 2000. Free amino compound composition of symbiotic invertebrates from the Gulf of Mexico hydrocarbon seeps. *Mar. Biol.* 136: 411-420.
- Puyana, M., W. Fenical and J.R. Pawlik. 2003. Are there activated chemical defenses in sponges of the genus *Aplysina* from the Caribbean? *Marine Ecology Progress Series*, 246: 127-135. [NURC/UNCW J-03-01]
- Quattrini, A.M., S.W. Ross, K.J. Sulak, A.M. NeCaise, T.L. Casazza and G.D. Dennis. 2004. Marine Fishes New to Continental United States Waters, North Carolina, and the Gulf of Mexico. *Southeastern Naturalist* 3(1): 155-172 [NURC/UNCW J-04-04]
- Qureshi, N.A. and N.N. Rabalais. 2001. Distribution of zooplankton on a seasonally hypoxic continental shelf. Chapter 4, pp 61-76. In: *Coastal and Estuarine Studies, Volume 58, American Geophysical Union.* [NURC/UNCW J-01-05]
- Rabalais N.N., R.E., Turner, W.J. Wiseman, Jr. and Q. Dortch. 1998. Consequences of the 1993 Mississippi River Flood in the Gulf of Mexico *Regulated Rivers. Research & Management* 14:161-177.
- Rabalais, N.N., D.E. Harper, and R.E. Turner. 2001. Responses of nekton and demersal and benthic fauna to decreasing oxygen concentrations. Chapter 7, pp 115-128. In: *Coastal and Estuarine Studies, Volume 58, American Geophysical Union.* [NURC/UNCW J-01-04]
- Rabalais, N.N., R.E. Turner, D. Justic, Q. Dortch, W.J. Wiseman, Jr. and B.K. Sen Gupta. 1996. Nutrient Changes in the Mississippi River and system responses on the adjacent continental shelf. *Estuaries* 19(2B): 386-407.
- Rabalais, N.N., R.E. Turner, W.J. Wiseman, Jr., and D.F. Boesch. 1990. A brief summary of hypoxia on the northern Gulf of Mexico continental shelf: 1985-1988. pp. 35-47. In: R.V. Tyson and T.H. Pearson (eds.) *Modern and Ancient Continental Shelf Anoxia*. Geological Society Special Publication #58. V Geological Society, London. 470 pp. [NURC/UNCW J-90-16]
- Rabalais, N.N., W.J. Wiseman, Jr., and R.E. Turner. 1994. Comparison of continuous records of near-bottom dissolved oxygen from the hypoxia zone along the Louisiana Coast. *Estuaries*. 17(4): 850-861. [NURC/UNCW J-94-43]
- Renaud, P.E., D.A. Syster and W.G. Ambrose, Jr. 1999. Recruitment patterns on continental shelf benthos off North Carolina, USA: effects of sediment enrichment and impact on community structure. *Journal of Experimental Marine Biology and Ecology*. Vol. 237(1): 89-106.
- Renaud, P.E., S.R. Riggs, W.G. Ambrose, K. Schmid, and S.W. Snyder. 1997. Biological-geological interactions: storm effects on macroalgal communities mediated by sediment characteristics and distributions. *Cont. Shelf Res.* 17(1): 37-56. [NURC/UNCW J-97-01]
- Renaud, P.E., W.G. Ambrose, S.R. Riggs, and D.A. Syster. 1996. Multi-level effects of severe storms on an offshore temperate reef system: Benthic sediments, macroalgae, and implications for fisheries. *Mar. Ecol.* 17(1-3): 383-398. [NURC/UNCW J-96-07]
- Richardson, L.L. and K.G. Kuta. 2003. Ecological physiology of the black band disease cyanobacterium *Phormidium corallyticum*. *FEMS Microbiology Ecology* 43(3 287-298. [NURC/UNCW J-03-21]
- Richardson, L.L. and R.B. Aronson. (In Press) Infectious diseases of reef corals. *Proceedings of the 9th International Coral Reef Symposium*.
- Richardson, L.L. 1996. Motility patterns of *Phormidium corallyticum* and *Beggiatoa* spp. associated with black band disease of corals. *Microbial Ecology*. 32:323-335.
- Richardson, L.L. 1997. Occurrence of the the black-band disease cyanobacterium on healthy corals of the Florida Keys. *Bulletin of Marine Science*. 61:485-490.
- Richardson, L.L. 1998. Coral diseases: What is really known? *Trends in Ecology and Evolution*. 13:438-443.
- Richardson, L.L. 2000. Coral epidemiology. In, *Opportunities for Environmental Applications of Marine Biotechnology*, Proceedings of the Workshop, Biology Board, National Research Council, National Academy Press, Washington DC. pp. 85-95.
- Richardson, L.L., G.W. Smith, K.B. Ritchie and R.G. Carlton. 2001. Integrating microbiological, microsensor, molecular, and physiologic techniques for the study of coral disease pathogenesis. *Hydrobiologia*. 460:71-89.
- Richardson, L.L., K. Kuta, S. Schnell, and R.G. Carlton. 1997. Ecology of the black band disease microbial consortium. *Proceedings of the 8th International Coral Reef Symposium*. 1:597-600.

- Richardson, L.L., W.M. Goldberg, R.G. Carlton and J.C. Halas. 1998. Coral disease outbreak in the Florida Keys: Plague Type II. *Revista de Biología Tropical*. 46, Supl.5:187-198.
- Richardson, L.L., W.M. Goldberg, K.G. Kuda, R.B. Aronson, G.W. Smith, K.B. Richie, J.C. Halas, J.S. Feingold, and S.L. Miller. 1998. Florida's mystery coral-killer identified. *Nature*. 392:557-558.
- Riggs, S.R. 1994. The non-living resources of the North Carolina continental margin, in: K. Hart, ed. *Managing the Coastal Ocean for the 21st Century: North Carolina's role*. University of North Carolina Sea Grant College Program. Pub. no. UNC-SG-94-02: 13-19.
- Riggs, S.R. and D.v.d.P. Ames. 1992. Upper Cenozoic geology of the Onslow Bay Aurora Embayments, North Carolina. *Compilation of published abstracts from the literature*. North Carolina Geological Survey. Information Circular 28: 209 pp.
- Riggs, S.R., D.v.d.P. Ames, R.A. Wyrick, K.L. Lueck, E.R. Powers, and R.A. Crowson. 1993. *Compilation of analytical data for phosphate-rich sediments in Onslow Bay, North Carolina*. North Carolina Geological Survey. Open-File Report 93-36: 235pp.
- Riggs, S.R., P. Stille, and D. Ames. 1997. Sr isotopic age analysis of co-occurring Miocene phosphate grain types on the North Carolina continental shelf: *Jour. Sed. Res.* 67(1):65-73.
- Riggs, S.R., P. Stille, and N. Clauer. 1993. Sr isotopic analysis of phosphate peloids through multiple sea-level cycles: Testing the depositional model for the North Carolina continental margin. in V. Zullo., W. Harris, T. Scott, and R. Portel, eds. *The Neogene of Florida and Adjacent Regions*. Florida Geological Survey. Spec. Pub. 37: 107-109.
- Riggs, S.R., S.W. Snyder, A.C. Hine, and D.L. Mearns. 1996. Hardbottom morphology and relationship to the geological framework: mid-Atlantic continental shelf. *Jour. Sed. Res.* 66(4):830-846.
- Riggs, S.R., S.W. Snyder, D. Ames, and P. Stille. 1999. Chronostratigraphy of Upper Cenozoic phosphorites on the North Carolina continental margin and the oceanographic implications for phosphogenesis, IN: *Marine Authigenesis: From Global to Microbial: Society of Sedimentary Geology (SEPM)*. Glenn, C., L. Prevot-Lucas, and J. Lucas. Spec. Pub 64.
- Riggs, S.R., W. J. Cleary, and S.W. Snyder. 1995. Influence of inherited geologic framework upon barrier shelf morphology and dynamics. *Mar. Geol.* 126(1-4): 213-234. [NURC/UNCW J-95-15]
- Riggs, S.R., W.G. Ambrose, J.W. Cook, S.W. Snyder, and S.W. Snyder. 1998. Sediment production on sediment-starved continental margins: the inter-relationship between hardbottoms, sedimentological and benthic community processes, and storm dynamics. *Jour. Sedimen. Res.* 66(4): 830-846.
- Roberts, H.H. 1995. High resolution surficial geology of the Louisiana middle-to-upper continental slope. *Gulf Coast Assoc. of Geological Societies Transactions*. XLV: 503-508. [NURC/UNCW J-95-29]
- Roberts, H.H. 1996. Surface amplitude data: 3D-Seismic for interpretation of sea floor geology (Louisiana Slope). *Transactions of the Gulf Coast Assoc. of Geological Societies*. XLVI: 353-362. [NURC/UNCW J-96-19]
- Roberts, H.H. and P. Aharon. 1994. Hydrocarbon-derived carbonate buildups of the northern Gulf of Mexico continental slope: A review of submersible investigations. *Geo-Marine Letters* 14(2-3): 135-148. [NURC/UNCW J-94-31]
- Roberts, H.H., and R.S. Carney. 1997. Evidence of episodic fluid, gas, and sediment venting on the Northern Gulf of Mexico continental slope. *Economic Geology* 92(7/8): 863-879. [NURC/UNCW J-97-12]
- Roberts, H.H., D.J. Cook, and M.K. Sheedlo. 1992. Hydrocarbon seeps of the Louisiana continental slope: Seismic amplitude signature and sea floor response. *GCAGS Trans.* 42: 349-361. [NURC/UNCW J-92-15]
- Roberts, H.H., P. Aharon, and M. Walsh. 1992. Cold-seep carbonates of the Louisiana continental slope-to-basin floor. pp. 95-104 In: R. Rezak and D. Lavoie (eds.) *Frontiers in Sedimentary Geology: Carbonate Microfabrics*. Springer-Verlag. [NURC/UNCW J-92-14]
- Roberts, H.H., P. Aharon, R. Carney, J. Larkin, and R. Sassen. 1990. Seafloor responses to hydrocarbon seeps, Louisiana continental slope. *Geo-Marine Letters* 10(4):232-243. [NURC/UNCW J-90-17]
- Roberts, H.H., P. Weimer, and M.G. Rowan. 1998. Subsurface controls on seafloor vent/seep-related geology, deepwater Gulf of Mexico: initial results. *Gulf Coast Association of Geological Societies Transactions*. Vol XLVIII: 367-372. [NURC/UNCW J-98-14]
- Roberts, H.H., R. Sassen, R. Carney, and P. Aharon. 1989. ¹³C- depleted authigenic carbonate buildups from hydrocarbon seeps, Louisiana continental slope. *GCAGS Trans.* XXXIX: 523-530. [NURC/UNCW J-89-08]
- Rose, C. D., W. S. Sharp, W. J. Kenworthy, J. H. Hunt, W. G. Lyons, E.J. Prager, J. F. Valentine, M. O. Hall, P. Whitfield and J. W. Fourqurean. 1999. Overgrazing of a large seagrass bed by the sea urchin *Lytechinus variegatus* in outer Florida Bay. *Marine Ecology Progress Series* 190: 211-222.
- Ross, S.W., K.J. Sulak, and T.A. Munroe. 2001. Association of *Sysenus infelix* (Crustacea: Isopoda: Aegidae) with benthopelagic rattail fishes, *Nezumia* spp. (Macrouridae), along the western North Atlantic continental slope. *Mar. Bio.* 138:595-601. [NURC/UNCW J-01-02]
- Rowe, G. T. 2001. Seasonal hypoxia in the bottom water off the Mississippi River delta. *Journal of Environmental Quality*. 30, 281-290.
- Rowe, G.T. and P. Chapman. 2002. Hypoxia in the northern Gulf of Mexico: some nagging questions. *Gulf of Mexico Science*. 20, 153-160.
- Rowe, G.T., M. E. Cruz-Kaegi, J. Morse, G. Boland and E. Escobar Briones 2002. Sediment community metabolism associated with continental shelf hypoxia, northern Gulf of Mexico. *Estuaries*. 25, 1097-11-6.
- Rulifson, R.A., J.D. Murray, and J.J. Bahen. 1992. Finfish catch reduction in South Atlantic shrimp trawls using three designs of by-catch reduction devices. *Fisheries* 17(1):9-20. [NURC/UNCW J-92-25]
- Sager, W.W., W.W. Schroeder, J.S. Laswell, K.S. Davis, R. Rezak, and S.R. Gittings. 1992. Mississippi - Alabama outer continental shelf topographic features formed during the late Pleistocene - Holocene transgression. *Geo-Marine Letters* 12(1): 41-48. [NURC/UNCW J-92-04]
- Salih, A., A. Larkum, T. Cronin, J. Wiedenmann, R. Szymczak, and G. Cox. (in press) Biological properties of coral GFP-type proteins provide clues for engineering novel optical probes and sensors. *Proc. of SPIE* 5329
- Sammarco, P. W. 1996. Comments on coral reef regeneration, bioerosion, biogeography, and chemical ecology: Future directions. *J. Exp. Mar. Biol. Ecol.* 200(1-2):135-168.
- Sanderson, S.L., J.J. Cech, Jr., and M.R. Patterson. 1991. Fluid dynamics in suspension-feeding blackfish. *Science* 251: 1346-1348.
- Sassen R., Roberts, H. H., Milkov A. V., Carney R., DeFreitas D. A., Lanoil B, and Zhang C. L. (In Press). Free hydrocarbon gas, gas hydrate, and authigenic carbonates in chemosynthetic communities of the northern Gulf of Mexico continental slope: Relation to microbial processes. *Chem. Geol.*
- Sassen, R. and I.R. MacDonald. 1994. Evidence of structure H hydrate, Gulf of Mexico continental slope. *Organic Geochemistry*. 23: 1029-1032.
- Sassen, R., and I.R. MacDonald. 1997. Hydrocarbons of experimental and natural gas hydrates, Gulf of Mexico continental slope. *Organic Chemistry*. 26(3-4): 289-293.
- Sassen, R., G.A. Cole, R. Drozd, and H.H. Roberts. 1994. Oligocene to Holocene hydrocarbon migration and salt-dome carbonates, northern Gulf of Mexico. *Marine and Petroleum Geology* 11(1): 55-65. [NURC/UNCW J-94-05]
- Sassen, R., H.H. Roberts, P. Aharon, J. Larkin, E.W. Chinn, and R. Carney. 1993. Chemosynthetic bacterial mats at cold hydrocarbon seeps, Gulf of Mexico continental slope. *Org. Geochem.* 20(1): 77-89. [NURC/UNCW J-93-20]
- Sassen, R., I.R. MacDonald, A.G. Requejo, N.L. Guinasso, Jr., M.C. Kennicutt II, S.T. Sweet, and J.M Brooks. 1994. Organic geochemistry of sediments from chemosynthetic communities, Gulf of Mexico slope. *Geo-Marine Letters* 14(2-3): 110-119. [NURC/UNCW J-94-28]
- Sassen, R., J.M. Brooks, M.C. Kennicutt II, I.R. MacDonald, and N.L. Guinasso Jr. 1993. How oil seeps, discoveries relate in deepwater Gulf of Mexico. *Oil and Gas Journal* 91(16): 64-69. [NURC/UNCW J-93-13]
- Sassen, R., MacDonald, I.R., Requejo, A.G., Guinasso Jr., N., Sweet, S.T., DeFreitas, D. 1998. Bacterial methane oxidation in sea-floor gas hydrate: Significance to life in
- Sassen, R., P. Grayson, G. Cole, H.H. Roberts, and P. Aharon. 1991. Hydrocarbon seepage and salt-dome related carbonate reservoir rocks of the U.S. Gulf Coast. *GCAGS Trans* XLI: 570-578. [NURC/UNCW J-91-05]
- Sassen, R., S. Joye, S.T. Sweet, D.A. DeFreitas, Milkov, A.V., and I.R. MacDonald. 1999a. Thermogenic gas hydrates and hydrocarbon gases in complex chemosynthetic communities, Gulf of Mexico continental slope. *Organic Geochemistry* 30: 485-497.

- Sassen, R., S.T. Sweet, A.V. Milkov, D.A. DeFreitas and M.C. Kennicutt II. 2001. Thermogenic vent gas and gas hydrate in the Gulf of Mexico slope: Is gas hydrate decomposition significant? *Geology* 29(2): 107-110. [NURC/UNCW J-01-01]
- Sassen, R., S.T. Sweet, A.V. Milkov, D.A. DeFreitas, G.G. Salata, and E.C. McDade. 1999b. Geology and geochemistry of gas hydrates, central Gulf of Mexico continental slope. *Transactions Gulf Coast Association of Geological Societies* 49: 462-468.
- Savarese, M., M.R. Patterson, V.I. Chernykh, and V.A. Fialkov. 1997. Trophic effects of sponge feeding within Lake Baikal's littoral zone: 1. *In situ* pumping rates. *Limnology and Oceanography* 42(1): 171-178.
- Sawyer, T.K., T.A. Nerad, N.N. Rabalais, and S.M. McLaughlin. 1997. Protozoans isolated from Louisiana shelf sediments subject to hypoxia/anoxia with emphasis on freshwater amoebae and marine flagellates. *Bull. Mar. Sci.* 61(3): 859-867.
- Schaff, T., L. Levin, N. Blair, D. DeMaster, R. Pope, and S. Boehme. 1992. Spatial heterogeneity of benthos on the Carolina continental slope: Large (100km)-scale variation. *Mar. Ecol. Prog. Ser.* 88(2-3): 143-160. [NURC/UNCW J-92-05]
- Schaff, T.R. 1991. Spatial heterogeneity of continental slope benthos off the Carolinas. M.S. Thesis, Dept. of Marine, Earth and Atmospheric Science, North Carolina State University, Raleigh, NC. 111pp. [NURC/UNCW T-91-04]
- Schaff, T.S. and L.A. Levin. 1994. Spatial heterogeneity of benthos associated with biogenic structures on the North Carolina continental slope. *Deep-Sea Res.* 41(4-6): 901-918. [NURC/UNCW J-94-44]
- Schmid, K. 1994. Patterns of sedimentation associated with hardbottom habitats on the North Carolina continental margin. M.S. Thesis, East Carolina University, Greenville, NC. [NURC/UNCW T-94-04]
- Schmid, Keil. 1995. Sedimentation associated with mid-shelf hardbottoms in Onslow Bay, North Carolina. M.S. Thesis. Department of Geology, East Carolina University, Greenville, NC. [NURC/UNCW T-95-05]
- Schmidt, T.W., J.S. Ault and J.A. Bohnsack. 1999. Site characterization for the Dry Tortugas region: fisheries and essential habitats. Florida Keys National Marine Sanctuary and National Park Service. NOAA Technical Memorandum NMFS-SEFSC-425. 95 p.
- Schmitt, T.M., M.E. Hay, and N. Lindquist. 1995. Constraints on chemically mediated coevolution: multiple functions for seaweed secondary metabolites. *Ecology*. 76(1): 107-123. [NURC/UNCW J-95-04]
- Schnitzler, I., G. Pohnert, M.E. Hay, and W. Boland. 2001. Chemical defense of the brown algae (*Dictyopteris* spp.) against the herbivorous amphipod *Ampithoe longimana*. *Oecologia* 126: 515-521.
- Schnitzler, I., W. Boland, and M.E. Hay. 1998. Organic sulfur compounds from *Dictyopteris* spp. deter feeding by an herbivorous amphipod (*Ampithoe longimana*) but not by an herbivorous sea urchin (*Arbacia punctulata*). *Jour. Chem. Eco.* 24(10):1715-1732. [NURC/UNCW J-98-13]
- Schopmeyer, S.A. 2002. The role of mucus in the ultraviolet radiation protection of *Porites astreoides*. Georgia Southern University. Statesboro, GA. 69 pp.
- Schroeder, W.W., A.W. Shultz, and O.H. Pilkey. 1995. Late quaternary oyster shells and sea-level history, inner shelf, Northeast Gulf of Mexico. *Journal of Coastal Research* 11(3): 664-674. [NURC/UNCW J-95-20]
- Scott, K.M and C.R. Fisher. 1995. Physiological ecology of sulfide metabolism in hydrothermal vent and cold seep vesicomyid clams and vestimentiferan tube worms. *Am. Zool.* 35(2): 102-111. [NURC/UNCW J-95-06]
- Scott, K.M., M. Bright, and C.R. Fisher. 1997. Effects of intrapopulation variability on parameter estimates for the von Bertalanffy growth equation. *Can. J. Fish. Aqua. Sci.* 54: 2025-2032.
- Scott, K.M., M. Bright, and C.R. Fisher. 1998. The Burden of independence: Inorganic carbon utilization strategies of the sulfur chemoautotrophic hydrothermal vent isolate *Thiomicrospira crunogena* and the symbionts of hydrothermal vent and cold seep vestimentiferans. *Cah. Biol. Mar.* 39:379-382.
- Scott, K.M., M. Bright, S.A. Macko, and C.R. Fisher. 1999. Carbon dioxide used by chemoautotrophic endosymbionts of hydrothermal vent vestimentiferans: Affinities for carbon dioxide, absence of carboxysomes and ¹³C values. *Mar Biol.* 135: 24-34.
- Searles, R.B. 1987. Phenology and floristics of seaweeds from the offshore waters of Georgia. *Northeast Gulf Sci.* 9(2): 99-108. [NURC/UNCW J-87-02]
- Searles, R.B. and C.W. Schneider. 1987. Observations on the deep-water flora of Bermuda. Twelfth International Seaweed Symposium. *Hydrobiologia* 151/152: 261-266. [NURC/UNCW J-87-03]
- Sebens, K. P. 1997. Adaptive responses to water flow: Morphology, energetics, and distribution of reef corals. *Proc. 8th Int. Coral Reef Symposium, Panama City, 1996. Vol 2.* 1053 - 1058.
- Sebens, K. P. 2002. Energetic constraints, size gradients and size limits in benthic marine invertebrates. *Integ. and Comp. Biol.* 42:853-861.
- Sebens, K.P. 1994. Biodiversity of coral reefs: What are we losing and why? *Amer. Zool.* 34(1): 115-133.
- Sebens, K.P. and A.S. Johnson. 1991. Effects of water movement on prey capture and distribution of reef corals. *Hydrobiologia* 226(2): 91-101. [NURC/UNCW J-91-06]
- Sebens, K.P., B. Helmuth, E. Carrington and B. Agius. 2003. Effects of water flow on growth and energetics of the scleractinian coral *Agaricia tenuifolia*.
- Sebens, K.P., J. Witting and B. Helmuth. 1996. Effects of water flow and aggregation on particle capture by the reef coral *Madracis mirabilis*. *J. Exp. Mar. Biol. Ecol.* 211:1-28.
- Sebens, K.P., K. Vandersall, L. Savina and K. Graham. 1996. Zooplankton capture by two scleractinian corals, *Madracis mirabilis* and *Montastrea cavernosa*, in a field enclosure. *Mar. Biol.* 127(2):303-317.
- Sebens, K.P., S. Grace, B. Helmuth, E. Maney, and J. Miles. 1998. Water flow and prey capture by three scleractinian corals, *Madracis mirabilis*, *Montastrea cavernosa*, and *Porites porites* in a field enclosure. *Mar. Biol.* 131(2): 347-360. [NURC/UNCW J-98-26]
- Sedberry, G. R. and N. Cuellar. 1993. Planktonic and benthic feeding by the reef-associated vermilion snapper *Rhomboplites aurorubens* (Teleostei, Lutjanidae). *Fish. Bull.* 91(4):699-709. [NURC/UNCW J-93-04]
- seeps. *Ecology Letters*. Vol. 6, no. 6, pp. 518-523. Jun.
- Sen Gupta, B.K. and P. Aharon. 1994. Benthic foraminifera of bathyal hydrocarbon vents of the Gulf of Mexico: Initial report on communities and stable isotopes. *Geo-Marine Letters* 14(2-3): 88-96. [NURC/UNCW J-94-25]
- Sen Gupta, B.K., E. Platon, J. M. Bernhard, and P. Aharon. 1997. Foraminiferal colonization of hydrocarbon-seep bacterial mats and underlying sediment, Gulf of Mexico slope. *Journal of Foraminiferal Research* 27: 292-300.
- Shashar N. 1996. Polarization vision in marine invertebrates. Ph.D. Dissertation, University of Maryland Baltimore County.
- Shashar, N. (In Press). Polarization vision- a door to an unseen world. *Proc. 10th Meeting on Optical Engineering in Israel. SPIE.*
- Shashar, N., S. Kinane, P.L. Jokiell, and M.R. Patterson. 1996. Hydromechanical boundary layers over a coral reef. *Journal of Experimental Marine Biology and Ecology* 199(1): 17-28.
- Shastri, K.A., G.L. Logue, and C.E. Lundgren. 1991. In vitro activation of human complement by nitrogen bubbles. *Undersea Biomedical Research* 18(3): 157-165. [NURC/UNCW J-91-01]
- Shen, Y., P.I. Tsai, W. Fenical, and M.E. Hay. 1993. Secondary metabolite chemistry of the Caribbean marine alga *Sporochmus bolleanus*: A basis for herbivore chemical defense. *Phytochemistry* 32(1):71-75. [NURC/UNCW J-93-06]
- Shepard, A. P. Fryer, J. Bellingham, B. Moore, M. Kelly, J. Zande, A. McCurdy, J. Carless, M. Ward and L. Lemmermand. 2002. Link 2002 Symposium "Sea and Space Experts Join to Develop Undersea Technologies" Held 20-22 May 2002 at NASA Kennedy Space Center, Cape Canaveral, Florida. *MTS Journal*. Vol. 36, No. 2:70-77.
- Shepard, A.N. 2000. NOAA's National Undersea Research Program. *MTS Journal* 34(4): 61-68. [NURC/UNCW J-00-10]
- Shepard, A.N. and P.J. Auster. 1990. Incidental (non-capture) damage to scallops by dragging on rock and sand substrates, pp. 219-230. In: P. Sandifer and S. Shumway (ed.) *An International Compendium of Scallop Biology and Culture*. World Aquaculture Society, New Orleans, LA.. 357 pp. [NURC/UNCW J-90-14]
- Shinn E. A., Reich C. D., and Hickey, T. D., 2002, Seepage Meters and Bernoulli's Revenge. *Estuaries* vol. 25, No. 1 p. 126-132.
- Shinn, E.A., C.D. Reich, S.D. Locker, and A.C. Hines. 1996. A giant sediment trap in the Florida Keys. *Jour. Coast. Res.* 12(4): 953-959. [NURC/UNCW J-96-08]

- Shultz, A.W., W.W. Schroeder, and J.R. Abston. 1990. along-shore and offshore variation in Alabama inner-shelf sediments, pp. 141-152, In: W.F. Tanner (Ed.), Coastal Sediments and Processes. Proceedings. Ninth Symposium of Coastal Sedimentology: Geology Department, Florida State University, Tallahassee, FL.
- Simmons, G.M., Jr, G.B. Hall, A.T. Mikell, and F.G. Love. 1985. A comparison of biogeological properties of a deep-water marine stromatolite analog with those from ice-covered Antarctic freshwater lakes. *Geomicrobiol. J.* 4(3): 269-283. [NURC/UNCW J-85-01]
- Simmons, Jr, G.M. 1992. Importance of submarine groundwater discharge (SGWD) and seawater cycling to material flux across sediment/water interfaces in marine environments. *Mar. Ecol. Prog. Ser.* 84(2): 173-184. [NURC/UNCW J-92-13]
- Simpkins, M.A. 1994. Hydrocarbon seep vestimentiferans: Growth and condition in a variable environment. M.S. Thesis, Pennsylvania State University, University Park, PA. [NURC/UNCW T-94-05]
- Sluka, R., M. Chiappone, and K.M. Sullivan. 1994. Comparison of juvenile grouper populations in southern Florida and the central Bahamas. *Bull. Mar. Sci.* 54(3): 871-880. [NURC/UNCW J-94-07]
- Smith, A.M., W.M. Kier, and S. Johnsen. 1993. The effect of depth on the attachment force of limpets. *Biol. Bull.* 184(3): 338-341. [NURC/UNCW J-93-24]
- Smith, C. M. and L. J. Walters. 1999. Vegetative Fragmentation in Three Species of *Caulerpa* (Chlorophyta, Caulerpales): The Importance of Fragment Origin, Fragment Length, and Wound Dimensions as Predictors of Success. *PSZN Mar. Ecol.* 20: 307-319.
- Smith, C.R., H.L. Maybaum, A.R. Baco, R.H. Pope, S.D. Carpenter, P.L. Yager, S.A. Macko, and J.W. Deming. 1998. Sediment community structure around a whale skeleton in the deep Northeast Pacific: Macrofaunal, microbial and bioturbation effects. *Deep-Sea Res.* 345: 335-364.
- Smith, E.B., F.M. Williams, and C.R. Fisher. 1997. Effects of intrapopulation variability on von Bertalanffy growth parameter estimates from equal mark-recapture intervals. *Can. J. Fish. Aqua. Sci.* 54(9):2025-2032. [NURC/UNCW J-97-16]
- Smith, E.B., K.M. Scott, E.R. Nix, C. Korte, and C.R. Fisher. 2000. Growth and condition of seep mussels (*Bathymodiolus childressae*) at a Gulf of Mexico brine pool. *Ecology* 81: 2392-2403.
- Smith, N.P. 1998. Tidal and long-term exchanges through channels in the middle and upper Florida Keys. *Bulletin of Marine Science* 62:199-211.
- Smith, N.P. and P.A. Pitts. 2002. Regional-scale and long-term transport patterns in the Florida Key, pp: 343-360; In: J.W. Porter and K.G. Porter (eds.) The Everglades, Florida Bay and Coral Reefs of the Florida Keys. An Ecosystem Sourcebook. CRC Press.
- Snell, T. 1997. Morphological and Genetic Variation in the scleratinian coral *Montastrea cavernosa*. M.Sc. Thesis, Zool. & Physiol., LA State Univ., Baton Rouge.
- Snell, T., D.W. Foltz, and P.W. Sammarco. 1998. Morphological and genetic variation in *Montastrea cavernosa* (Coelenterata, Scleractinia) from the Flower Garden Banks and the Florida Keys: Preliminary analysis. *Gulf Mex. Sci.* 1998: 188-195. [NURC/UNCW J-98-25]
- Snyder, S. W., A.C. Hine, S.R. Riggs, S.W. Snyder. 1993. Miocene Geology of the continental shelf, Onslow Bay, North Carolina. North Carolina Geological Survey. Map Series. No. 3.
- Sotka, E.E. and M.E. Hay. 2002. Geographic variation among herbivore populations in tolerance for a chemically-rich seaweed. *Ecology* 83: 2721-2735
- Sotka, E.E., J.P. Wares, M.E. Hay. 2003. Geographic and genetic variation in feeding preference for chemically-defended seaweeds. *Evolution*. Vol. 57, No. 10, pp. 2262-2276.
- Sotka, E.E., M.E. Hay, and J.D. Thomas. 1999. Host-plant specialization by a non-herbivorous amphipod: advantages for the amphipod and costs for the seaweed. *Oecologia* 118:471-482.
- Stachowicz, J.J. and M.E. Hay 2000. Geographic variation in camouflaging behavior by a decorator crab: southern populations specialize on chemically noxious decorations. *American Naturalist* 156: 59-71
- Stachowicz, J.J. and M.E. Hay. 1996. Facultative mutualism between an herbivorous crab and a coralline alga: Advantages of eating noxious seaweeds. *Oecologia* 105(3):377-387.
- Stachowicz, J.J. and N. Lindquist. 1997. Chemical defense among hydroids on pelagic Sargassum: predator deterrence and absorption of solar UV radiation by secondary metabolites. *Mar. Ecol. Prog. Ser.* 155: 115-126. [NURC/UNCW J-97-15]
- Staff, G.M. and E.N. Powell. 1999. Onshore-offshore trends in community structural attributes: death assemblages from the shallow continental shelf of Texas. *Continental Shelf Research.* 19: 717-756. [NURC/UNCW J-99-01]
- Staff, G.M. and E.N. Powell. 2000. Onshore-offshore trends in the size-frequency distribution of death assemblages: Northwestern Gulf of Mexico. *Gulf of Mexico Science* 2: 104-129. [NURC/UNCW J-00-09]
- Staff, G.M., W.R. Callender, E.N. Powell, K.M. Parsons-Hubbard, C.E. Brett, S.E. Walker, D. Carlson, S. White, A. Raymond and E.A. Heiss. 2002. Taphonomic trends along a foreereef slope: Lee Stocking Island, Bahamas. II. Time, *Palaios* v. 17, p. 66-83. [NURC/UNCW J-02-12]
- Stephan, C.D. and D.G. Lindquist. 1989. A comparative analysis of the fish assemblages associated with old and new shipwrecks and fish aggregating devices in Onslow Bay, North Carolina. *Bull. of Mar. Sci.* 44(2): 698-717. [NURC/UNCW J-89-06]
- Stevens, B.G., J.A. Haaga and W.E. Donaldson. 1999. Mound Formation by Tanner Crabs, *Chionoecetes bairdi*: Tidal phasing of larval launch pads?, pp.445-453; In: J.C. Von Vaupel Klein and F.R. Schram (ed.) The Biodiversity Crisis and Crustacea: Proceedings of the fourth international crustacean congress, Amsterdam, the Netherlands, July 20-24, 1998. A.A. Balkema/Rotterdam/Brookfield. [NURC/UNCW J-99-23]
- Stille, P., S. Riggs, N. Clauer, D. Ames, R. Crowson, and S. Snyder. 1994. Sr and Nd isotopic analysis of phosphorite sedimentation through one Miocene high-frequency depositional cycle on the North Carolina continental shelf. *Marine Geology* 117(1-4): 253-273. [NURC/UNCW J-94-15]
- Stoner, A.W. 1997. Status of queen conch, *Strombus gigas*, research in the Caribbean. *Mar. Fish. Rev.* 59(3): 14-22. [NURC/UNCW J-97-14]
- Stoner, A.W. and R.A. Glazer. 1998. Variation in natural mortality: implications for queen conch stock enhancement. *Bull. Mar. Sci.* 62(2): 427-442.
- Stoner, A.W. R.A. Glazer, and B.J. Barile. 1996. Larval supply to queen conch nurseries: Relationships with recruitment process and population size in Florida and the Bahamas. *J. Shellfish Res.* 15(2):407-420.
- Stoner, A.W., M. Ray, R.A. Glazer, and K.J. McCarthy. 1996. Metamorphic responses to natural substrata in a gastropod larva: decisions related to postlarval growth and habitat preference. *J. Exp. Mar. Biol. Ecol.* 205(1-2): 229-243. [NURC/UNCW J-96-20]
- Stoner, A.W., N. Mehta, and T.N. Lee. 1997. Recruitment of *Strombus veligers* to the Florida Keys reef tract: relation to hydrographic events. *J. Shellfish Res.* 16:1-6.
- Streams, M., C.R. Fisher and A. Fiala-Medioni. 1997. Methanotropic symbiont location and fate of carbon incorporated from methane. *Mar. Biol.* 129(3):465-476.
- Stumpf, R.P., M.L. Frayer, M.J. Durako, and J.C. Brock. 1999. Variations in water clarity and bottom albedo in Florida Bay from 1985 to 1997. *Estuaries*. 22(2B): 431-444. [NURC/UNCW J-99-18]
- Sulak, K.J. and S.W. Ross. 1996. Lilliputian bottom fish fauna of the Hatteras upper middle continental slope. *Jour. Fish Biol.* 49(Supplement A): 91-113. [NURC/UNCW J-96-04]
- Swain, T., H.R. Lasker, K. Kim 1997 Enumeration of sperm in broadcast spawning species, 8th Int. Coral Reef Symp., Panama.
- Swearingen, D.C. and J.R. Pawlik. 1998. Variability in the chemical defense of the sponge *Chondrilla nucula* against predatory reef fishes. *Mar. Bio.* 131(4): 619-627. [NURC/UNCW J-98-05]
- Swearingen, D.C. III. 1996. Variability in the growth form and chemical defense of the sponge *Chondrilla nucula*. M.S. Thesis, University of North Carolina at Wilmington, 601 S. College Road, Wilmington, NC 28403.
- Syster, D.A. 1995. Patterns of infaunal recruitment on the continental shelf, Onslow Bay, North Carolina. M.S. Thesis, Department of Biology, East Carolina University, Greenville, NC. 64pp. [NURC/UNCW T-95-04]
- Szmant, A. M. and A. Forrester. 1996. Water column and sediment nitrogen and phosphorus distribution patterns in the Florida Keys, USA. *Coral Reefs* 15(1):21-41.
- Takabayashi, M., D. A. Carter, J. V. Lopez, O. Hoegh-Guldberg. 2003. Genetic variation of the scleractinian coral *Stylophora pistillata*, from western Pacific reefs *Coral Reefs* 22: 17-22.
- Talge, H.K. 2002. Cytology of Symbiont Loss (Bleaching) in *Amphistegina gibbosa* (Class Foraminifera). Ph.D. Dissertation, University of South Florida, Tampa, FL,

- Talge, H.K. and P. Hallock. 1993. Observations of symbiont loss in benthic foraminifera. *J. Scanning Microscopy* 15(supp. III): 86-88. [NURC/UNCW J-93-33]
- Talge, H.K. and P. Hallock. 1995. Cytological examination of symbiont loss in a benthic foraminifer, *Amphistegina gibbosa*. *Mar. Micropaleon.* 26(1-4): 107-113. [NURC/UNCW J-95-16]
- Talge, H.K., D.E. Williams, P. Hallock, and J.N. Harney. 1997. Symbiont loss in reef foraminifera: Consequences for affected populations. *Proc. 8th Int. Coral Reef Symp.*, 1:589-594, Panama City, Panama. [NURC/UNCW J-97-03]
- Taylor R.B., E. Sotka, and M.E. Hay 2002. Tissue-specific induction of herbivore resistance: seaweed response to amphipod grazing. *Oecologia* 132:68-76
- Taylor, R.B., N. Lindquist, J. Kubanek, and M.E. Hay 2003. Intraspecific variance in palatability and defensive chemistry of brown seaweeds: effects on herbivore fitness. *Oecologia* 136:412-423 [NURC/UNCW J-03-07]
- Thieler, E.R., O.H. Pilkey Jr., W. J. Cleary and W. C. Schwab. 2001. Modern Sedimentation on the shoreface and inner continental shelf at Wrightsville Beach, North Carolina, USA. *Journal of Sedimentary Research* Vol. 71(6) : 958-970. [NURC/UNCW J-01-12]
- Thieler, E.R., A.L. Brill, W.J. Cleary, C.H. Hobbs, and R.A. Gammisch. 1995. Geology of the Wrightsville Beach, North Carolina, shoreface: Implications for the concept of shoreface profile of equilibrium. *Marine Geology.* 126(1-4): 271-287. [NURC/UNCW J-95-32]
- Toler, S. K.2002. Shell damage in bleaching stressed *Amphistegina gibbosa* (Class Foraminifera) from the Florida Keys. Ph.D. Dissertation, University of South Florida, Tampa, FL . 136 pp.
- Toler, S.K. and P. Hallock. 1998. Shell malformation in stressed *Amphistegina* populations: relation to biomineralization and paleoenvironmental potential. *Mar. Micropaleontology.* 34:107-115. [NURC/UNCW J-98-22]
- Toler, S.K., P. Hallock and J. Schijf. 2001. Mg/Ca ratios in stressed foraminifera, *Amphistegina gibbosa*, from the Florida Keys. In: *Marine Micropaleontology* 43: 199-206.[NURC/UNCW J-01-15]
- Top, Z., L.E. Brand, R.D. Corbett, W. Burnett, and J. Chanton, 2001. Helium and radon as tracers of groundwater input into Florida Bay. *Journal of Coastal Research*,17, No.4, 859-868. [NURC/UNCW J-01-07]
- Toscano, M.A. 1996. Late quaternary stratigraphy, sea-level history, and paleoclimatology of the southeast Florida outer continental shelf. Ph.D. Dissertation, Department of Marine Science, University of South Florida, St. Petersburg, FL. 280pp.
- Trussell, G.C. 1998. Phenotypic clines in the intertidal snail *Littorina obtusata*: the role of water temperature and predator effluent as inducers of phenotypic plasticity and associated trade-offs in shell form. Ph.D. dissertation, School of Marine Science, College of William & Mary, 210 pp.
- Turner, R.E. and N.N. Rabalais. 1994. Coastal Eutrophication near the Mississippi river delta. *Nature* 368(6472): 619-621. [NURC/UNCW J-94-02]
- Turner, R.E. and N.N. Rabalais. 1995. Changes in the Mississippi River nutrient supply and offshore silicate-based phytoplankton community responses, pp.147-150. In: K.R. Dyer (ed.) *Changes in fluxes in estuaries: Implications from science to management*. Proc. Joint ECSA/ERF Conference, Olsen and Olsen,
- Turnipseed, M., C.D. Jenkins, C.L. Van Dover. (in press) Community structure in Florida Escarpment seep and Snake Pit (Mid-Atlantic Ridge) vent mussel beds. *Marine Biology*.
- Turnipseed, M., K.E. Knick, J. Dreyer, R. Lipcius and C.L. Van Dover. 2003. Diversity in mussel-beds at deep-sea hydrothermal vents and cold
- Tyler, P.A. and C.M. Young. 1999. Reproduction and dispersal at vent and cold seeps. *J. Mar. biol. Assoc. UK.* 79:193-208.
- Ugucioni, D.M. 1994. Doppler detection of silent venous gas emboli in non-decompression diving involving safety stops. M.S. Thesis, University of North Carolina at Wilmington, 601 S. College Road, Wilmington, NC 28403. [NURC/UNCW T-94-09]
- Urcuyo, I.A., G. Massoth, D. Julian and C.R. Fisher. (In Press) Habitat, growth and physiological ecology of a basaltic community of *Ridgeia piscesae*. *Deep Sea Res.*
- Valentine J.F., K.L. Heck, Jr., and K.D. Kirsch. 2000. The importance of the grazing pathway in seagrass food webs: a changing paradigm. *Biologia Marina Mediterranea.* 7: 290-293.
- Valentine, J.F. and K.L. Heck, Jr. 1999. Seagrass herbivory: evidence for the continued grazing of marine grasses. *Mar. Ecol. Prog. Ser.* 176: 291-302.
- Valentine, J.F., K.L. Heck Jr., and A.M. Cinkovich. 2002. Impacts of seagrass food webs on marine ecosystems: a need for a broader perspective. *Bulletin of Marine Science.* Vol. 71, no. 3, pp. 1361-1368. Nov
- Valentine, J.F., K.L. Heck, Jr., K.D. Kirsch, and D. Webb. 2000. Seagrass herbivory in the turtlegrass habitats of the Florida Keys. *Mar. Ecol. Prog. Ser.* 200: 213-228.
- Van Dover, C. L., 2000. The Ecology of Deep-Sea Hydrothermal Vents.
- Van Dover, C. L., P. Aharon, J. M. Bernhard, E. Caylor, M. Doerries, W. Flickinger, W. Gilhooly, S. K. Goffredi, K. Knick, S. A. Macko, S. Rapoport, E. C. Raulfs, C. Ruppel, J. Salerno, R. D. Seitz, B. K. Sen Gupta, T. Shank, M. Turnipseed, R. Vrijenhoek. 2003. Blake Ridge methane seeps: characterization of a soft sediment, chemosynthetically based ecosystem. *Deep-Sea Research I* 50: 281-300.[NURC/UNCW J-03-02]
- Van Dover, C.L., C.R. German, K.G. Speer, L.M. Parson and R.C. Vrijenhoek. 2002. Evolution and biogeography of deep-sea vent and seep
- Vecchione, M. and C.F.E. Roper. 1991. Cephalopods observed from submersibles in the western north Atlantic. *Bull. of Mar. Sci.* 49(1-2): 433-445. [NURC/UNCW J-91-03]
- Vecchione, M., R.E. Young, A. Guerra, D.J. Lindsay, D.A. Clague, J.M. Bernhard, W.W. Sager, A.F. Gonzalez, F.J. Rocha, and M. Segonzac. 2001. Worldwide Observations of Remarkable Deep-Sea Squids. *Science (Wash.)*(294) 5551: 2505-2506.
- Venkataramaiah, R. Application of an integrated environmental monitoring model for natural hydrocarbons seeps in the Gulf of Mexico. PhD. dissertation, Texas A&M University, Dept. of Civil Engineering. vent ancestors. *Cah. Biol. Mar.*
- Vroom, P. S., C. M. Smith, J. A. Coyer, L. J. Walters, C. L. Hunter, K. S. Beach and J. E. Smith. 2003. Field Biology of *Halimeda* tuna (Bryopsidales, Chlorophyta) Across a Depth Gradient: Comparative Growth, Survivorship, Recruitment, and Reproduction. *Hydrobiologia* 501:149-166.
- Waddell, B. and J.R. Pawlik. 2000. Defenses of Caribbean sponges against invertebrate predators. I. Assays with hermit crabs. *Mar. Ecol. Prog. Ser.* 195: 125-132. [NURC/UNCW J-00-01]
- Waddell, B. and J.R. Pawlik. 2000. Defenses of Caribbean sponges against invertebrate predators. II. Assays with sea stars. *Mar. Ecol. Prog. Ser.* 195: 133-144. [NURC/UNCW J-00-02]
- Waddell, B., Pawlik, J.R. 1999. Defenses of Caribbean sponges against invertebrate predators: II. Assays with sea stars. *Mar. Ecol. Prog. Ser.*, 195: 133-144
- Waddell, B., Pawlik, J.R. 1999. Defenses of Caribbean sponges against invertebrate predators: I. Assays with hermit crabs. *Mar. Ecol. Prog. Ser.*, 195: 125-132
- Wade, T.L., M.C. Kennicut II, and J.M. Brooks. 1989. Gulf of Mexico hydrocarbon seep communities: Part 3. Aromatic hydrocarbon concentrations in organisms, sediments and water. *Mar. Environ. Res.* 27(1):19-30. [NURC/UNCW J-89-07]
- Walker, S.E., K Parsons-Hubbard, E.N. Powell, and C.E. Brett. 2002. Predation on experimentally deployed molluscan shells from shelf to slope depths in a tropical carbonate environment. *Palaiois*, Vol. 17, p. 151-169.
- Walker, S.E., K Parsons-Hubbard, E.N. Powell, and C.E. Brett. 1998: Bioerosion or bioaccumulation? Shelf-slope trends for epi- and endobionts on experimentally deployed gastropod shells. *Hist. Biol.* 13:61-72.
- Walters, L. and K. Beach. 2000. Algal Bloom in the Florida Keys. *Underwat. Nat.* 25(3): 27-29.
- Walters, L. J. 2003. Understanding Marine Bioinvasions: Classroom Experiments with Macroalgae. *Journal of the Marine Education Association* 18: 7-10.
- Walters, L. J., C. M. Smith and M. G. Hadfield. 2003. Recruitment of Sessile Marine Invertebrates on Hawaiian Macroflora: Do Pre-Settlement or Post-Settlement Processes Keep Plants Free From Biological Fouling? *Bulletin of Marine Science* 72:813-839.
- Walters, L. J., Smith, C. M. and M. G. Hadfield. 2000. Recruitment of Sessile Marine Invertebrates on Hawaiian Macroflora: Do Pre-Settlement or Post-Settlement Processes Keep Plants Free From Biological Fouling? 2000 SCIB Annual Meeting, Atlanta, GA (USA), 4-8 Jan. (World Meeting Number 001 5049)
- Walters, L. J., Smith, C. M., Coyer, J. A., Hunter, C. L., Beach, K. S. and P. S. Vroom. 2002. Asexual Propagation in the Coral Reef Macroalga *Halimeda* (Chlorophyta, Bryopsidales): Production, Dispersal and Attachment of Small Fragments. *Journal of Experimental Marine Biology and Ecology* 278: 47-65. [NURC/UNCW J-02-18]

- Warner, M. E., W. K. Fitt, G. C. Chilcoat and F. K. McFarland 2002. "Seasonal fluctuation of photosynthetic efficiency of photosystem II in symbiotic dinoflagellates within the reef-building Caribbean coral *Montastraea*." *Marine Biology* 141: 31-38. [NURC/UNCW J-02-19]
- Warner, M.E., W.K. Fitt, and G.W. Schmidt. 1999. Damage to photosystem II in symbiotic dinoflagellates: A determinant of coral bleaching. *Proc. Natl. Acad. Sci. USA*. 96(14): 8007-8012. [NURC/UNCW J-99-07]
- Warner, M.E., W.K. Fitt, G.W. Schmidt. 1996. The effects of elevated temperature on the photosynthetic efficiency of zooxanthellae *in hospite* from four different species of reef coral: a novel approach. *Plant. Cell and Environment* 19(3): 291-299. [NURC/UNCW J-96-21]
- Wenner, E.L. and C.A. Barans. 1990. *In situ* estimates of density of golden crab, *Chaceon feneri*, from habitats on the continental slope, Southeastern U.S. *Bull. of Mar. Sci.* 46(3): 723-734. [NURC/UNCW J-90-07]
- Wenner, E.L., C.A. Barans, and G.F. Ulrich. 1992. Population structure and habitat of Jonah Crab, *Cancer borealis* (Stimpson 1859), on the continental slope off the Southeastern U.S. *J. Shell. Res.* 11(1): 95-103. [NURC/UNCW J-92-09]
- Wilber, R.J., J.D. Milliman, and R.B. Halley. 1990. Accumulation of bank-top sediment on the western slope of Great Bahama Bank: Rapid progradation of carbonate megabank. *Geology* 18(10): 970-974. [NURC/UNCW J-90-08]
- Wilber, R.J., R.B. Halley, J.D. Milliman, and D. Freile. 1992. Sediments of western Great Bahama Bank: Facies patterns and depositional processes along a rapidly prograding leeward margin. *Geology*.
- Willey, J.D. and L.B. Cahoon. 1991. Enhancement of Chlorophyll *a* production in Gulf Stream surface seawater by rainwater nitrate. *Marine Chemistry* 34(1-2): 63-75. [NURC/UNCW J-91-02]
- Williams, A.B. 1988. New marine decapod crustaceans from waters influenced by hydrothermal discharge, brine, and hydrocarbon seepage. *Fish. Bull.* 86(2): 263-287. [NURC/UNCW J-88-10]
- Williams, D. E. 2002. Population ecology of bleaching-stressed *Amphigestina Gibbosa* in the Florida Keys (1991-1999): Influence of solar radiation on reef-dwelling foraminifera. Ph.D. dissertation, University of South Florida, 163 pages.
- Williams, D. E. 2002. Population ecology of bleaching-stressed *Amphigestina Gibbosa* in the Florida Keys (1991-1999): Influence of solar radiation on reef-dwelling foraminifera. Ph.D. dissertation, University of South Florida, 163 pages. [NURC/UNCW T-02-01]
- Williams, D.E., P. Hallock, H.K. Talge, J.N. Harney, and G. McRae. 1997. Responses of *Amphistina gibbosa* populations in the Florida Keys (USA) to a multi-year stress event (1991-1996). *Journal of Foraminiferal Research* 27(4): 264-269. [NURC/UNCW J-97-13]
- Wilson, D.M., M. Puyana, W. Fenical, and J.R. Pawlik. 1999. Chemical Defense of the Caribbean reef sponge *Axinella corrugata* against predatory fishes. *Journal of Chemical Ecology*. 25(12): 2811-2824. [NURC/UNCW J-99-10]
- Wilson, R.R. and K.M. Burns. 1996. Potential survival of released groupers caught deeper than 40 m based on shipboard and in-situ observations, and tag-recapture data. *Bull. Mar. Sci.* 58(1):234-247. [NURC/UNCW J-96-16]
- Wing, S.R., and J.J. Leichter. 1996. Storm-generated physical variability on Conch Reef, Florida Keys. *Proc. Intl. Coral Reef Symposium, Panama City* 2: 1097-1102.
- Wing, S.R., and M.R. Patterson. 1993. Effects of wave-induced lightflecks in the intertidal zone on photosynthetic efficiency in the macroalgae *Postelsia palmaeformis* and *Hedophyllum sessile* (Phaeophyceae). *Marine Biology* 116: 519-525.
- Witman, J.D., M.R. Patterson, and S.J. Genovese. In press. Benthic-pelagic linkages in subtidal communities: influence of food subsidy by internal waves. In: *Food Webs at the Landscape Level* (G.A. Polis, M.E. Power, and G.R. Huxel, Eds.) University of Chicago Press, 15 pp.
- Witting, J. and K. P. Sebens. (In Press). The role of zooplankton capture in six Caribbean scleractinian corals: in situ evidence that heterotrophy enhances
- Won, Y., P.A.Y. Maas, C.L. Van Dover and R.C. Vrijenhoek. (In Press). Habitat reversals in vent and seep mussels: *Bathymodiolus heckeriae* has
- Wysor B. 2002. Biodiversity and biogeography of marine green algae of the Republic of Panama. Unpubl. Ph.D. Dissertation, University of Louisiana at Lafayette, 292 pp.
- Yoklavich, M.M., C.B. Grimes and W.W. Wakefield. 2003. Using Laser Line Scan Imaging Technology to Assess Deepwater Seafloor Habitats in the Monterey Bay National Marine Sanctuary. *Marine Technology Society Journal* Volume 37:1, Spring 2003. [NURC/UNCW J-03-05]
- Young, C.M., D.L. Manahan, P. Leong, A. Metaxas, and E. Vazquez. (In Press) Larval energetics, behavior and dispersal potential of a cold-seep vestimentiferan, *Lamellibrachia sp.* *Biol. Bull.*
- Young, C.M., E. Vasquez and P.A. Tyler. 1996. Embryology of vestimentiferan tube worms from deep-sea methane/sulfide seeps. *Nature* 381(6582): 514-516.
- Zande, J. and R.S. Carney. (in press) Population Size Structure and Feeding Biology of *Bathynereis naticoides* Clarke 1989 from Gulf of Mexico Hydrocarbon Seeps. SEvidence of episodic fluid, gas and sediment venting on the northern Gulf of Mexico Continental Slope. *Economic Geology* 9:863-879.
- Zhang, C.L, Y. Li, J.D. Wall, L. Larsen, R. Sassen, Y. Huang, Y. Wang, A. Peacock, D. White, J. Horita and D.R. Cole. 2002. Lipid and Carbon isotopic evidence of methane-oxidizing and sulfate-reducing bacteria in association with gas hydrates from the Gulf of Mexico. *Geology* Vol. 30, no. 3, pp. 239-242. [NURC/UNCW J-02-24]