

CURRICULUM VITAE
04/09
DAVID B. EGGLESTON

Director

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RESEARCH INTERESTS

Marine conservation biology, Experimental marine benthic ecology, detecting ecological impacts, fisheries and behavioral ecology, population dynamics and modeling, estuarine and coastal habitat restoration, marine science education

ACADEMIC DEGREES

- B.S. 1980 Old Dominion University (Major: Biology)
M.A. 1988 The College of William and Mary, School of Marine Science (Major: Marine Ecology, Minor: Resource Management)
Ph.D. 1991 The College of William and Mary, School of Marine Science (Major: Fisheries Ecology, Minor: Statistics)

EXPERIENCE

- 1985-1990: Graduate Research Assistant, Virginia Institute of Marine Science
1985-1987: Fishery Port Sampler, NOAA/Northeast Fishery Statistics Division
1987-1989: Adjunct Assistant Professor, Thomas Nelson Community College, VA
1989-1991: Expedition Leader, Earthwatch-The Center for Field Research, "Yucatan Fishermen", Yucatan, Mexico.
1990-1992: Research Associate, NURP, Caribbean Marine Research Center
1992-1993: Research Associate, University of Washington, College of Ocean and Fishery Sciences
1993-1999: Assistant Professor, North Carolina State University, Department of Marine, Earth & Atmospheric Sciences
1997-98: Visiting Assistant Professor, University of Washington, School of Fisheries

- 1998-1999: Expedition Leader, Earthwatch-The Center for Field Research, “Nassau groupers”, Exuma Cays, Bahamas.
- 2000-2002: Chief Scientist, “MV Sea Ray” and “RV Coral Reef II”, Research cruises to Nassau grouper spawning aggregations, Exumas, Bahamas.
- 1999-2004: Associate Professor, North Carolina State University, Department of Marine, Earth & Atmospheric Sciences
- 2004-Pres.: Professor, North Carolina State University, Department of Marine, Earth & Atmospheric Sciences
- 2006-Pres.: Director, Center for Marine Science and Technology, North Carolina State University

AWARDS

- 1990 Best Student Paper Award, 43 Annual Gulf and Caribbean Fisheries Institute meeting, Miami, FL.
- 1990 John M. Zeigler Student Achievement Award, The College of William and Mary, School of Marine Science.
- 1992-93 Postdoctoral fellowship, University of Washington, College of Ocean and Fishery Sciences
- 1998 National Science Foundation, Early Career Award
- 1998 Outstanding Teacher Award, NC State University
- 1999 NC Academy of Outstanding Teachers
- 1999 Nominated for “Coastal Steward of the Year” by NC Sea Grant; National Competition
- 2000 Invited Visiting Scholar, Tohoku Fisheries Research Institute, Shiogama, Japan, August-September, 2000
- 2005 & ‘06 Alumni Distinguished Undergraduate Professor, NC State University (nominated by College of Physical & Mathematical Sciences)
- 2008-09 Outstanding Extension Service Award, NC State University

APPOINTMENTS AND SERVICE TO PROFESSIONAL ORGANIZATIONS

- 1989-92: Academic Review Committee For The Biosphere Reserve Sian Ka'an, Quintana Roo, Mexico: Spiny Lobster Resources
- 1993 National Undersea Research Center, Carolina Capes Strategic Planning Committee
- 1993 Sigma-Xi, Proposal Panel Member
- 1994-1999 Duke/University of North Carolina Oceanographic Consortium, Panel Member
- 1994-96 Adjunct Asst. Professor, Unidad Merida, Merida, Mexico
- 1995-1999 South Atlantic Fisheries Management Council, Scientific and Statistical Committee
- 1995-1998 Chair, NCSU/MEAS Outreach Committee
- 1997-98 Chair, Search Committee for *Coastal Fluid Dynamicist*, NCSU/MEAS
- 1997-98 Member, Search Committee for *Aquatic Ecologist*, NCSU/Zoology
- 1997-98 Visiting Assistant Professor, University of Washington, School of Fisheries (1 mo./year).
- 1998-Pres. NC Blue Crab Fishery Management Plan Action Committee, NC Dept. Health & Natural Resources, NC Division of Marine Fisheries.

1999-2001 Member, Organizing Committee for Sixth International Lobster Conference, Key West, FL

1999-2001 Member, Marine Habitat Classification workshop, co-sponsored by the Ecological Society of America and NOAA/National Marine Fisheries Service, Long Key, FL.

1999-2003 Member, NC State University, Dept. MEAS Graduate Support Committee.

1999-2005 Member, NC State University, Dept. MEAS Public Outreach Committee.

1999-2000 Consultant (unpaid), NC Museum of Natural Sciences, Raleigh, NC, "Arthropod and Oceans Exhibits".

1999-2002 Member, NSF-Sponsored National Center for Ecological Analysis and Synthesis, Nursery Habitat workshop, Santa Barbara, CA.

2001 Chair and Co-Host, Blue Crab Symposium, Wilmington, NC, March 2000

2000 - 2002 Guest Editor, *Bulletin of Marine Science*.

2000 Proposal Review Panel Member, NOAA/National Sea Grant Fisheries Habitat Program, Silver Spring, MD.

2000-2001 Member, Search Committee for "Fisheries Ecologist", NC State University, Department of Zoology.

2000-2001 Member, Search Committee for *Department Head*, NC State University, Department of Marine, Earth & Atmospheric Sciences.

2000-2004 Chair, NCSU/MEAS Peer review of teaching committee.

2000-2005 Member, NCSU/PAMS Awards Committee

2000-2001 Guest subject-matter editor, *Marine and Freshwater Research*

2000-2002 Chair of organizing committee for NSF-funded Biocomplexity Incubation Activity, "Biocomplexity in North Carolina's Coastal Aquatic Systems"

2001 Member of NOAA's "Grays Reef Task Force" to identify research priorities.

2002-2003. Member, Search Committee for *Physical Oceanographer*, NC State University, Department of Marine, Earth & Atmospheric Sciences.

2002-2004 Member, Teaching Action Committee, NC State Univ., College of Physical & Mathematical Sciences.

2002-2004 Member, Evaluation of Teaching Committee, NC State University Standing Committee.

2002-2003 Member, Monitoring Working Group, NOAA National Marine Sanctuary Program.

2002-Pres. Scientific Advisory Committee for the Blue Crab, NC Division of Marine Fisheries.

2002 Proposal Review Panel member, NOAA/NURC/West Coast and Polar Region Programs.

2003-05 Advisory Board, Southeast Center for Ocean Science Education Excellence program (COSEE).

2003-Pres. Chair, NC State University Scientific Diving Control Board

2004-05 Member, Blue crab collaborative learning working group. NC Sea Grant

2004 Proposal Review Panel Member, EPA STAR-Fellowship Program, Washington, D.C

2004-06 Member, Internal Assessment Team for NC State University's Center for Marine Science and Technology.

- 2005-06 Chair, Graduate program review committee for Fisheries and Wildlife Sciences, NC State University, Raleigh, NC
- 2005 Chair, Teleconferencing Committee, NC State University, Dept. of Marine, Earth & Atmospheric Sciences
- 2005 Member, Search Committee for *Fishery Biologist* in the Department of Zoology
- 2005 Member, PAMS Committee for *Campaign Kickoff for Alumni & Friends of NCSU*
- 2005 Proposal Review Panel member, Florida Sea Grant
- 2005-06 Member, International Scientific Committee for the 3rd Int. Symposium on Stock Enhancement & Sea Ranching, Seattle, WA, Sept. 2006
- 2005-Pres. Advisory Board, *Applied Marine Biology Program*, Carteret Community College, Morehead City, NC
- 2006-Pres. Member, *NC Coastal Studies Institute, Scientific Coordinating Committee.*
- 2006-Pres. Member, *Marine Science and Education Partnership*, Carteret Co., NC
- 2006-07 Member, UNC President Bowles Marine Science Task Force
- 2006-Pres. Member, *Marine Science Technology Transfer Working Group*
- 2007-Pres. Member, *NC Eastern Region, Center of Innovation in Marine Biotechnology Planning Team*
- 2007 Member, Proposal Panel Team, *NOAA CSCOR Multistress Panel.*
- 2007-Pres. Member, *National Association of Marine Laboratories & Southern Association of Marine Laboratories*
- 2007-Pres. Member, *North Carolina Environmental Observing Network System (NC-EONS)*
- 2008-Pres. Member, External Advisory Board, *SPICOSA (Science and Policy Integration for COastal Zone Assessment)*, European Union.
- 2008 Chair, Search Committee for *Oceanographer* in Department of MEAS, NC State University
- 2008-Pres. Member, *University of North Carolina System, Marine & Coastal Sciences Council*
- 2009-Pres. Member, *NC Biotechnology Center, Agri-Business Working Group for Marine and Aquaculture.*

FUNDED GRANTS (PI unless noted otherwise)

1. 1990 NOAA/National Undersea Research Program: "Recruitment dynamics of the Caribbean spiny lobster (*Panulirus argus*) in the central Bahamas". - \$100,000/1 yr. (co-PI with R. Lipcius).
2. 1990 Consejo Nacional de Ciencia y Tecnologia (Mexico): "Ecology and management, R. Lipcius & E. Sosa-Cordero).of juvenile spiny lobsters in Ascension Bay, Mexico". - \$50,000/2 yrs. (co-PI w/ D. Miller).
3. 1991 NOAA/National Undersea Research Program: "Recruitment dynamics and stock enhancement of the Caribbean spiny lobster". - \$140,533/1 yr. (co-PI with R. Lipcius).
4. 1992 NOAA/National Undersea Research Program: "Recruitment dynamics and sustainable resource use in the Caribbean spiny lobster". - \$140,384/1 yr. (co-PI with R. Lipcius).
5. 1993 Washington Sea Grant: "Use of intertidal oyster shell to enhance habitat for 0+ Dungeness crab: effects on species assemblages and management implications". - \$180,807/2 yrs. (co. PI w/ D. Armstrong).

6. 1993 NOAA/National Undersea Research Program: "Fisheries oceanography and recruitment in the Caribbean and Sub-Tropics (FORECAST)". - \$1,100,000/2 yrs. (co-PI with R. Lipcius, J. Shenker, A. Stoner).
7. 1994 Cooperative Institute of Fisheries Oceanography: "Habitat heterogeneity, species-area relationships and population sources and sinks: A process oriented research approach to marine biodiversity". - \$24,998/1 yr.
8. 1994 NC State University, Faculty Research & Professional Development: "A process oriented research approach to marine biodiversity". \$5,000/8 mo.
9. 1995 NOAA/National Undersea Research Program: "Recruitment dynamics and sustainable resource use in the Caribbean spiny lobster". - \$270,000/2 yrs. (co-PI w/ R. Lipcius)
10. 1995 EPA-EMAP Carolinian Province Project: "Use of the burrowing amphipod, *Leptocheirus plumulosus*, as a bioindicator of habitat degradation in North Carolina estuaries". \$6,996/5 mo.
11. 1995 NC Sea Grant/Fisheries Moratorium Steering Committee: "Evaluation of fisheries resource data collection, analysis and availability: an example protocol using the blue crab" \$14,351/1 yr.
12. 1995 NC Sea Grant: "Testing hydrodynamic predictions of larval recruitment limitation and identification of early juvenile 'source' habitats. ~\$70,000/2 yrs. (PI w/ L. Xie, R. Lipcius, co-PIs).
13. 1996 NC Division of Marine Fisheries: "Population dynamics of the blue crab in North Carolina: Statistical analyses of long-term fisheries data". \$30,341/2 yrs.
14. 1996 NC State University, Outreach and Professional Development: "Blue crabs, high school students, and the scientific method: NCSU outreach in coastal NC. \$3,000/1 yr.
15. 1996 WA Sea Grant: "Seasonal and spatial indices of population biomass and production of crab (*Cancer magister*) in a Washington estuary. \$30,330 1 yr. (co-PI w/ D. Armstrong).
16. 1997 Earthwatch-The Center for Field Research. "Nassau groupers". \$6,852/1 yr.
17. 1997 NOAA/National Undersea Research Program: "Recruitment and metapopulation of the Caribbean spiny lobster". \$49,961/1 yr. (co-PI w/ R. Lipcius).
18. 1997 South Carolina Marine Resources Research Institute: "Measurements of settlement and post-settlement abundance of gag grouper in North Carolina". \$14,015/1 yr.
19. 1997 NC State University, Outreach and Professional Development: "Blue crabs, high school students, and the scientific method: NCSU outreach in coastal NC. \$3,000/1 yr.
20. 1998 Earthwatch-The Center for Field Research. "Nassau groupers". ~\$8,500/1 yr.
21. 1998 NC Sea Grant. "Understanding population dynamics of the blue crab in North Carolina: an integrated modeling, field research and educational outreach program. \$94,642/2 yrs. (PI w/L. Xie co-PI).
22. 1998 Z. Smith Reynolds Foundation. "Research experiences for teachers and students: partnerships to transfer coastal research to public education". \$33,139/1 yr.
23. 1998 National Science Foundation, Early Career Program & Biological Oceanography. "The scientific method, stochastic dynamics and deterministic forcing: an integrated modeling, field research and educational outreach program to understand population dynamics of the blue crab." \$466,405/5 yrs.
24. 1999 NC Sea Grant/ NC Division of Marine Fisheries: "Stock assessment of the blue crab (*Callinectes*

- sapidus* in North Carolina”. \$44,000/ 1.5 yrs. (P.I.w/ J. Hightower co-PI).
25. 2000 NC Sea Grant. “Direct and indirect effects of water quality on trophic interactions in a eutrophic coastal river: movement patterns, foraging, and mortality of blue crabs.” \$81,416/2 yrs. (PI w/ T. Wolcott co-PI).
 26. 2000 National Science Foundation. “Impact of larval transport and benthic habitat quality upon recruitment dynamics: poor nursery habitat decouples larval supply from reproductive output of Caribbean spiny lobster”. \$84,786/ 2 yrs.
 27. 2000 NOAA/National Undersea Research Program/Caribbean Marine Research Center, “Spawning aggregations of the Nassau grouper: essential habitat, population structure, and fish movement patterns”, \$31,206/1 yr. (PI w/ J. Hightower, P. Rand, C. Dahlgren, A-M. Eklund, S. Bolden, co-PI’s).
 28. 2000 NC Fisheries Research Grant Program/NC Sea Grant Program. “Population dynamics and stock assessment of the blue crab (*Callinectes sapidus*) in North Carolina”. \$57,710/2 yrs. (PI w/ J. Hightower and E. Johnson co-PI’s).
 29. 2000 NOAA/National Undersea Research Program-Wilmington “Coupling of Gulf Stream water intrusions with postlarval settlement of snapper/grouper and lobster at a mid-shelf reef, Onslow Bay, NC, \$14,011/1 yr., co-PI w/D. Lindquist, PI, and T. Potts and F. Bingham co-PI’s).
 30. 2000 NOAA/NC Sea Grant. “Blue crab symposium 2000”, \$5,000/1 yr.
 31. 2000 NOAA/ Chesapeake Bay Program Office. “Blue crab symposium 2000”, \$3,000/1 yr.
 32. 2000 National Science Foundation. “Biocomplexity Incubation Activity: Interactions between life and the environment in the coastal zone, NC”, \$71,164/2 yrs., P.I. w/ T. Hopkins (NCSU) and D. Kamykowski (NCSU).
 33. 2001 NC Fisheries Resource Grant Program/NC Sea Grant. “Mortality and CPUE of blue crab in North Carolina’s soft shell crab industry”, \$84,848/16 mos.
 34. 2001 NOAA/National Undersea Research Program/Caribbean Marine Research Center. “Spawning aggregations of the Nassau grouper: essential habitat, population structure, and fish movement patterns”, \$21,010/ 1 yr., P.I. w/ P. Rand (NCSU/ZOO), C. Dahlgren (CMRC), and A-M. Eklund (NMFS/Miami).
 35. 2001 NC Sea Grant. “Use of emerging technology to determine nursery origin and essential fish habitat (EFH) for summer flounder, *Paralichthys dentatus*. \$8,843/1yr. (co-PI w/ T. Kellison, PI and W. Showers co-PI).
 36. 2001 NC Fisheries Resource Grant Program/NC Sea Grant. “Field assessment of spawning sanctuaries and possible migration corridors for the blue crab spawning stock in North Carolina”, \$85,953/18 mos.
 37. 2001 NC Fisheries Resources Grant Program/NC Sea Grant. “Blue crab stock enhancement potential: field releases and pond rearing”, \$48,920/12 mos. (co-PI w/T. Kellison PI).
 38. 2002 NOAA/NURP/Caribbean Marine Research Center. “Connectivity and spatial dynamics of a Nassau grouper metapopulation in the Bahamas: fulfilling urgent, key information needs for conservation”. \$70,000/2 yrs. (PI w/ P. Rand, A-M Eklund, C. Dahlgren co-PIs).
 39. 2002 University of Miami/RSMAS. “Application and refinement of underwater 3-D video to quantify spatial structure of fish schools using Nassau grouper spawning aggregations”,

- \$10,988/12 mos. (PI w/ P. Rand co-PI)
40. 2002 The Oceans Conservancy. “Fish and spiny lobster density, size-structure, and fish diversity within multiple backreef habitats of Great White Heron National Wildlife Refuge”. ~\$200k/4 years. (PI w/ J. Sobel program manager).
 41. 2002 National Sea Grant Program. “Is growth a reliable indicator of essential fish habitat?” \$197,305/2 yrs. (PI w/ J. Hare and S. Searcy co-PIs).
 42. 2002 NC Sea Grant/ Fisheries Resource Grant Program. “High school students and the blue crab: an educational outreach program to test a ‘recruitment failure hypothesis’ for the blue crab”. \$40,889/1 yr.
 43. 2002 NC Sea Grant Fisheries Resource Grant Program. “Economic and biological feasibility of blue crab pond culture”. \$36,310/1 yr. (w/ T. Kellison co-PI).
 44. 2002 National Science Foundation. “Collaborative: estuarine crab transport: linking post-settlement dispersal, bio-physical mechanisms and hydrodynamic corridors”. \$470,542/3 yrs. (PI w/ T. Hopkins and R. Forward co-PIs).
 45. 2002 Univ. MD/Center for Marine Biotechnology/Blue Crab Advanced Research Consortium. “Ecological feasibility of blue crab stock enhancement: field and laboratory experiments in NC”. \$40,000/1 yr.
 46. 2002 NOAA/National Marine Fisheries Service. “Determination of a recruitment index methodology and the establishment of recruitment indices for estuarine-dependent finfish, blue crab and shrimp on the NC coast”. \$75,000/3 yrs. (co-PI w/ L. Pietrafesa PI and L. Xie, D. Dickey, J. Morrison co-PIs).
 47. 2003 NC Department of Transportation. “A comparison of the impacts of culverts versus bridges on stream habitat and aquatic fauna”; \$483,449/2 yrs.; co-PI w/ J. Levine (PI), G. Cope, A. Bogan, D. Shea and J. Gregory.
 48. 2003 Univ. MD/Center for Marine Biotechnology/Blue Crab Advanced Research Consortium. “Ecological feasibility of blue crab stock enhancement: field and laboratory experiments in NC”; \$120,000/2 years.
 49. 2004 National Fish & Wildlife Foundation. “Impact of sport divers on lobsters and coral reefs”. \$43,632 1/yr.
 50. 2005 NC Sea Grant/Blue Crab Research Grant Program. “Blue crab stock enhancement: further progress in freshwater pond rearing”. \$32,581/1 yr.
 51. 2005 NC Sea Grant/Blue Crab Research Grant Program. “Blue crab dependence on SAV nurseries in Albemarle Sound”. \$42,479/1 yr.
 52. 2005 NC Sea Grant. “Oyster dispersal and meta-population dynamics in Pamlico Sound: Part I, larval dispersal”. \$102,029/2 years, Co-PI with C. Cudaback, PI.
 53. 2006 NC Sea Grant, FRG Program. “Oyster dispersal and meta-population dynamics in Pamlico Sound: Part II, settlement, survival and spawning potential”. \$62,222/1 yr.
 54. 2006 NOAA, University of Maryland, BCARC. Blue crab (*Callinectes sapidus*), an integrated research program of basic biology, hatchery technologies, and potential for replenishing stocks. \$5 million/5 yrs., co-PI.
 55. 2007 NC Sea Grant, FRG Program. “Oyster dispersal and meta-population dynamics in Pamlico Sound: Part II, settlement, survival and spawning potential”. \$40,000/1 yr.

56. 2007 NC Sea Grant/Blue Crab Research Grant Program. “Blue crab stock enhancement: further progress in freshwater pond rearing”. \$19,000/1 yr.
57. 2007 NC Sea Grant/Blue Crab Research Grant Program. “Blue crab dependence on SAV nurseries in Albemarle Sound”. \$42,479/1 yr.
58. 2007 UNC General Administration, “Initiation of an Inter-Institutional Environmental Observation Network System for North Carolina (NC EONS)”, \$54,000/2 yrs. PI.
59. 2008 NC Sea Grant. “Oyster dispersal and meta-population dynamics in Pamlico Sound: Part II, settlement, survival and spawning potential”. \$87,000/2 yrs.
60. 2008 NC Sea Grant. “Timing and route of movement in mature female blue crabs in a tidal estuary”. \$68,772/1 yr.
61. 2008 NOAA, University of Maryland, BCARC. “Blue crab (*Callinectes sapidus*), an integrated research program of basic biology, hatchery technologies, and potential for replenishing stocks”. \$96,578/1 yr.
62. 2008 NOAA/National Sea Grant. . “Designing marine reserve networks for oyster restoration: metapopulation and graph theoretic approaches”. NMFS-Sea Grant Fellowship in Population Dynamics. D. Eggleston, \$115,500/3 yrs.
63. 2009. Timing and route of movement in mature blue crabs in northeastern NC. NC Blue Crab Research Program, NC Sea Grant, \$6,000/1 yr.
64. 2009. NSF/PIRE: “Caribbean network of deep-water refugia for exploited marine species. R. Lipcius, PI, D. Eggleston and others co-PI. \$1,326,997/4 yrs. (pending).
65. 2009. NSF/Biological Oceanography. “Collaborative Research: Interacting effects of local demography and larval connectivity on estuarine metapopulation dynamics in a network of reserves”. D. Eggleston, PI; T. Wolcott, E. North, & R. Luettich, co-PIs. \$1,034,612/3 yrs. (pending).
66. 2009 NC Division of Marine Fisheries/DEHNR/APNEP. “Performance-based aquatic vegetation monitoring”. \$20,259/1 yr. (pending).
67. 2009 NOAA Habitat Restoration, American Re-investment and Recovery Act. “Ecological performance measures of large-scale, sub-tidal oyster restoration. \$285,382/18 months (pending).
68. 2009 NOAA Habitat Restoration, American Re-investment and Recovery Act. “Baseline survey of recreational angling at oyster restoration sites”. \$31,384/18 months; co-PI with B. Efland, PI (pending).

PUBLICATIONS (Peer-Reviewed)

1. **Eggleston, D. B.** (1990). Behavioural mechanisms underlying variable functional responses of blue crabs (*Callinectes sapidus*) feeding on juvenile oysters (*Crassostrea virginica*). *Journal of Animal Ecology* 59(2):613-628.
2. **Eggleston, D. B.** (1990). Foraging behavior of the blue crab, *Callinectes sapidus*: effects of prey density and size. *Bulletin of Marine Science* 46(1):62-82.
3. **Eggleston, D. B.**, R. N. Lipcius, D. L. Miller, and L. Coba-Cetina. (1990). Shelter scaling regulates survival of juvenile Caribbean spiny lobster *Panulirus argus*. *Marine Ecology*

- Progress Series* 62:79-88.
4. **Eggleston, D. B.** and E. A. Bochenek. (1990). Stomach contents and parasite infestation of school bluefin tuna, *Thunnus thynnus*, collected from the mid-Atlantic Bight, Virginia. *U.S. Fishery Bulletin* 88(2):389-394.
 5. **Eggleston, D. B.** (1990). Variable functional responses of blue crabs (*Callinectes sapidus*) feeding on juvenile oysters (*Crassostrea virginica*): effects of predator sex and size, and prey size. *Journal of Experimental Marine Biology and Ecology* 143:73-90.
 6. **Eggleston, D. B.,** & R. N. Lipcius. (1992). Shelter selection by spiny lobster under variable predation risk, social conditions and shelter size. *Ecology* 73(3):992-1011.
 7. **Eggleston, D. B.,** R. Lipcius, & D. Miller. (1992). Enhancement of spiny lobster survival by artificial shelters: habitat, scaling, and spatial effects upon predation intensity. *Proceedings of the Gulf and Caribbean Fisheries Institute* 42:127-134.
 8. **Eggleston, D. B.,** R. N. Lipcius, & A. H. Hines. (1992). Variation in density-dependent predation by blue crabs upon infaunal clam species with contrasting distribution and abundance patterns. *Marine Ecology Progress Series* 85:55-68.
 9. **Eggleston, D. B.,** R. Lipcius, & D. Miller. (1992). Artificial shelters and survival of juvenile Caribbean spiny lobster: spatial, habitat and lobster size effects. *U.S. Fishery Bulletin* 90(4):691-702.
 10. Briones-Fourzan, P., E. Lozano-Alvarez & **D. B. Eggleston.** (1994). The use of artificial shelters ("casitas") for research and harvesting of spiny lobster in Mexico. Pages 340-337 *In*. Phillips, B. F., J. S. Cobb & J. Kittaka (eds.), "Spiny lobster management: Current situation and perspectives". *Fishing News Books, Blackwell Scientific Publications, Oxford, UK*
 11. Mueller, K. W., G. D. Dennis, **D. B. Eggleston,** & R. I. Wicklund. (1994). Size-specific social interactions and feeding modes in a population of mutton snapper, *Lutjanis analis* (Pisces: Lutjanidae) in the central Bahamas. *Environmental Biology of Fishes* 40:175-188.
 12. Mintz, J., R. Lipcius, **D. Eggleston** and M. Seebo. (1994). Survival of juvenile Caribbean spiny lobster: Effects of shelter size, geographic location and conspecific abundance. *Marine Ecology Progress Series* 112:255-266.
 13. **Eggleston, D.** & D. Armstrong. (1995). Pre- and post-settlement determinants of estuarine Dungeness crab recruitment. *Ecological Monographs* 65:191-254.
 14. **Eggleston, D. B.** (1995). Recruitment in Nassau grouper (*Epinephelus striatus*): Post-settlement abundance, microhabitat features, and ontogenetic habitat shifts. *Marine Ecology Progress Series* 124:9-22.
 15. **Eggleston, D.,** R. Lipcius, J. Grover. (1997). Predator and shelter effects on coral reef fish and spiny lobster prey. *Marine Ecology Progress Series* 149:43-59.
 16. Feldman, K., D. Armstrong, **D. Eggleston,** B. Dumbauld. (1997). Effects of substrate selection behavior and post-settlement survival on recruitment success of the thalassinidean shrimp, *Neotrypaea californiensis*, to intertidal shell and mud habitats. *Marine Ecology Progress Series* 150:121-136.
 17. **Eggleston, D.,** L. Etherington, W. Elis. (1997). Organism response to habitat patchiness: species- and habitat-dependent recruitment of decapod crustaceans. *Journal of Experimental Marine Biology and Ecology* 223:111-132.

18. Lipcius, R., W. Stockhausen, **D. Eggleston**, B. Hickey. (1997). Hydrodynamic decoupling of spawning stock, habitat quality and recruitment in the Caribbean spiny lobster: source-sink dynamics? *Journal of Marine and Freshwater Research* 48:807-815.
19. **Eggleston, D.**, D. Armstrong, W. Elis, W. Patton. (1998). Estuarine fronts as conduits for larval transport: hydrodynamics and spatial distribution of megalopae. *Marine Ecology Progress Series* 164:73-82.
20. Grover, J., **D. Eggleston**, J. Shenker. (1998). Transition from pelagic to demersal phase in early-juvenile Nassau grouper, *Epinephelus striatus*: pigmentation, squamation, and ontogeny of diet. *Bulletin of Marine Science* 62: 97-113.
21. **Eggleston, D.**, J. Grover, R. Lipcius. (1998). Ontogenetic diet shifts in Nassau grouper: trophic linkages and predatory impact. *Bulletin of Marine Science* 63:111-126.
22. **Eggleston, D. B.**, R. N. Lipcius, L. S. Marshall, Jr. and S. G. Ratchford. (1998). Spatiotemporal variation in postlarval recruitment of the Caribbean spiny lobster in the central Bahamas: lunar and seasonal periodicity, spatial coherence, and wind forcing. *Marine Ecology Progress Series* 174:33-49.
23. Ratchford, S. G. and **D. B. Eggleston**. (1998). Size- and scale-dependent chemical attraction contributes to an ontogenetic shift in sociality. *Animal Behaviour* 56:1027-1034.
24. Lipcius, R. N., **D. B. Eggleston**, D. L. Miller, T. Camarena. (1998). Spiny lobster survival in seagrass and algae: an inverted size refuge and non-linear survival function. *Marine and Freshwater Research* 49:807-816.
25. **Eggleston, D. B.**, W. E. Elis, L. L. Etherington, C. P. Dahlgren, M. H. Posey. (1999). Organism response to habitat patchiness and diversity: habitat colonization by estuarine macrofauna. *Journal of Experimental Marine Biology and Ecology* 236:107-132.
26. **Eggleston, D. B.** (1999). Application of landscape ecological principles to oyster reef habitat restoration. Pages 213-277 in Luckenbach, M. W., R. Mann and J. A. Wesson (eds.) *Oyster Reef Habitat Restoration: A Synopsis and Synthesis of Approaches*. Virginia Institute of Marine Science Press.
27. Xie, L. and **D. B. Eggleston**. (1999). Computer simulations of wind-induced estuarine circulation patterns and estuary-shelf exchange processes: the potential role of wind forcing on larval transport. *Estuarine, Coastal and Shelf Science* 49:221-234.
28. Lipcius, R. N. and **D. B. Eggleston**. (2000). Introduction: ecology and fishery biology of spiny lobsters. Pages 1-42 in Phillips, B. F., J. S. Cobb and J. Kittaka (eds.). *Spiny Lobster Management*. Fishing News Books, Blackwell Scientific Publications, Oxford.
29. Briones-Fourzan, P., E. Lozano-Alvarez and **D. B. Eggleston**. (2000). The use of artificial shelters (Casitas) in research and harvesting of Caribbean spiny lobsters in Mexico. Pages 420-446 in Phillips, B. F., J. S. Cobb and J. Kittaka (eds.). *Spiny Lobster Management*. Fishing News Books, Blackwell Scientific Publications, Oxford.
30. Ratchford, S. G. and **D. B. Eggleston**. (2000). Temporal shift in the release of a chemical attractant contributes to a diel shift in sociality. *Animal Behaviour* 59:793-799.
31. Taylor, D. L. and **D. B. Eggleston**. (2000). Effects of hypoxia on an estuarine predator-prey interaction: foraging behavior and mutual interference in the blue crab *Callinectes sapidus* and the infaunal clam prey *Mya arenaria*. *Marine Ecology Progress Series* 196:221-237.

32. Dahlgren, C. P. and **D. B. Eggleston**. (2000). Ecological processes underlying ontogenetic habitat shifts in a coral reef fish. *Ecology* 81(8):2227-2240.
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- evaluation of summer flounder stock enhancement potential using experimental ecology. *Marine Ecology Progress Series* 250:263-278.
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 47. **Eggleston, D. B.**, E. G. Johnson, G. T. Kellison and D. A. Nadeau. (2003) Intense removal and non-saturating functional responses by recreational divers on spiny lobster prey. *Marine Ecology Progress Series* 257:197-207.
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 49. Bell G. W., **D. B. Eggleston** and T. G. Wolcott. (2003.) Behavioral responses of free-ranging blue crabs to episodic hypoxia. II. Feeding. *Marine Ecology Progress Series* 259:227-235.
 50. Chaves, J. C. and **D. B. Eggleston**. (2003). Blue crab mortality in North Carolina's soft-shell industry: biological and operational considerations. *Journal of Shellfisheries Research* 22:241-249.
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 52. Etherington, L. L., **D. B. Eggleston**, and W. Stockhausen (2003). Partitioning loss rates of early juvenile blue crabs from seagrass habitats into mortality and emigration. *Bulletin of Marine Science* 72(2):371-392.
 53. **Eggleston, D. B.** (2003). Introduction to the Proceedings of the Blue Crab Symposium. *Bulletin of Marine Science* 72(2):261-263.
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 57. Burkholder, J, **D. Eggleston**, H. Glasgow, C. Brownie, R. Reed, G. Melia, C. Kinder, G. Janowitz, R. Corbett, M. Posey, T. Alphin, D. Toms, N. Deamer. (2004). Comparative impacts of major hurricanes on the Neuse River and Western Pamlico Sound ecosystems. *Proceedings of the National Academy of Sciences* 101:9291-9296.
 58. **Eggleston, D B.**, C. P. Dahlgren and E. G. Johnson. (2004). Fish density, diversity and size-structure within multiple back-reef habitats of Key West National Wildlife Refuge, USA. *Bulletin of Marine Science* 75:175-204.
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 61. Darcy, M. C. and **D. B. Eggleston**. (2005). Do habitat corridors influence animal dispersal and colonization in estuarine systems? *Landscape Ecology* 20:841-855.
 62. **Eggleston, D. B.**, G. W. Bell and A. D. Amavisca. (2005). Interactive effects of hypoxia and cannibalism on juvenile blue crab mortality. *Journal of Experimental Marine Biology and Ecology* 325:18-26.
 63. Parsons, D. P. and **D. B. Eggleston**. (2005). Indirect effects of recreational fishing on spiny lobster behavior (*Panulirus argus*). *Marine Ecology Progress Series* 303:235-244.
 64. Parsons, D. M. and **D. B. Eggleston**. (2006). Human disturbance, natural predators and unobserved mortality in a spiny lobster, *Panulirus argus*, fishery. *Journal of Experimental Marine Biology and Ecology* 334:196-205.
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 66. Drew, C. A. and **D. B. Eggleston**. 2006. Currents, landscape structure, and recruitment success along a passive-active dispersal gradient. *Landscape Ecology* 21:917-931.
 67. Reyns, N. B., **D. B. Eggleston** and R. A. Luettich. (2006). Secondary dispersal of early juvenile blue crabs within a wind-driven estuary. *Limnology and Oceanography* 51; 1982-1995.
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 74. Searcy, S, **D. B. Eggleston**, J. Hare. (2007). Environmental influences on the relationship

- between juvenile and larval growth for Atlantic croaker, *Micropogonias undulatus*. *Marine Ecology Progress Series* 349:81-88.
75. **Eggleston, D. B.**, E. G. Johnson, G. T. Kellison, G. R. Plaia and C. Huggett. (2008). Pilot evaluation of early juvenile blue crab stock enhancement using a replicated BACI design. *Reviews in Fisheries Science* 16 (1-3): 91-100.
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 78. Zohar, Y., A. H. Hines, O. Zmora, E. G. Johnson, R. N. Lipcius, R. D. Seitz, **D. B. Eggleston**, A. R. Place, E. Schott, J. Stubblefield and J. Sook Chung. (2008). The Chesapeake Bay Blue Crab: (*Callinectes sapidus*): A multidisciplinary approach to responsible stock enhancement. *Reviews in Fisheries Science* 16 (1-3): 25-35.
 79. Drew, C. A. and **D. B. Eggleston**. (2008). Local juvenile fish densities in Florida Keys mangroves correlates with regional landscape characteristics. *Marine Ecology Progress Series* 362:233-243.
 80. Vander Pluym, J.L., **D.B. Eggleston**, and J.F. Levine. (2008). Impacts of road crossings on fish movement and community structure. *Journal of Freshwater Ecology* 23(4): 545-574.
 81. **Eggleston, D. B.** and D. M. Parsons. 2008. Disturbance-induced spill-in of Caribbean spiny lobster to marine reserves. *Marine Ecology Progress Series* 371: 213-220.
 82. Moorman, M. C., **D. B. Eggleston**, C. B. Anderson, A. Mansilla and P. Szjener. (2009). The implications of North American Beaver and Trout invasion on native diadromous fish in the Cape Horne Biosphere Reserve, Chili. *Transactions of the American Fisheries Society* 138:306-313.
 83. Johnson, E. G. and **D. B. Eggleston**. (2008). Population density, loss and movement of blue crabs in salt marsh creeks of the Newport River estuary. *Marine Ecology Progress Series* (in press).
 84. **Eggleston, D. B.**, G. W. Bell, S. P. Searcy. Do Blue Crab Spawning Sanctuaries in North Carolina Protect the Spawning Stock? *Transactions of the American Fisheries Society* (in press).
 85. Searcy, S.P., **D.B. Eggleston**, and J. Hare. Factors influencing early recruitment success of an estuarine-dependent fish and the importance of density-dependent mortality. *Canadian Journal of Fisheries and Aquatic Sciences*. (in review).
 86. Bell, G. W., **D. B. Eggleston** and E. J. Noga. Molecular keys unlock the mysteries of variable survival responses of blue crabs to hypoxia. *Oecologia*. (in review).
 87. Bell, G. W., **D. B. Eggleston** and E. J. Noga. Environmental and physiological controls of blue crab avoidance behavior during exposure to hypoxia. *Biological Bulletin* (in review).
 88. Eggleston, D. B., N. B. Reynolds, L. L. Etherington, G. Plaia, L. Xie. Climate impacts on large-scale estuarine blue crab settlement. *Fisheries Oceanography* (in review).

89. **Eggleston, D. B.**, G. W. Bell, E. G. Johnson, G. T. Kellison. Nurseries as integrated ecosystems: a reminder from backreef habitats in the lower Florida Keys. *Bulletin of Marine Science* (in review)
90. **Eggleston, D. B.**, E. G. Johnson, L. L. Etherington, N. B. Reynolds. Interacting effects of humans and nature: Floodwaters, fishermen, and blue crab population decline. *Proceedings of the National Academy of Sciences* (in prep.).
91. Searcy, S.P., **D.B. Eggleston**, and J. Hare. Flushed down the river: resilience of an estuarine dependent fish to disturbance. (in prep. for *Ecology*).
92. Searcy, S.P., **D.B. Eggleston**, and J. Hare. The relationship between larval fish supply and later juvenile abundance in two North Carolina estuaries. (In prep. for *Fishery Bulletin*).
93. **Eggleston, D. B.** and S.P. Searcy. Reef fish and crustacean recruitment to backreef habitats in the lower Florida Keys: the role of Atlantic versus Gulf of Mexico sources. (In prep. for *Bulletin of Marine Science*).

(copies of manuscripts in press or review are available upon request)

Technical reports, non peer-reviewed book chapters, popular articles, videos

1. **Eggleston, D. B.** (1988). Remote sensing of offshore water mass features: present and potential benefits to Virginia's recreational fishery for marlin and tuna. *Scientific Report in Applied Marine Science and Ocean Engineering No. 295 of the Virginia Institute of Marine Science*, College of William and Mary, Gloucester Point, VA 23062. 34 pp.
2. **Eggleston, D. B.**, R. N. Lipcius, D. L. Miller. (1990). Stock enhancement of Caribbean Spiny Lobster. *The Lobster Newsletter* 3(1):10-11.
3. **Eggleston, D. B.** & R. N. Lipcius. (1992). Dynamics of shelter selection in the Caribbean spiny lobster. *The Lobster Newsletter* 5(1):7-8.
4. **Eggleston, D.** and S. McKeena. (1996). Evaluation of fisheries resource data collection, analysis and availability: an example protocol using the blue crab. *UNC-Sea Grant-96-01*, 23 pp.
5. **Eggleston, D.** (1997). Use of a burrowing amphipod, *Leptocheirus plumulosus*, as a bioindicator of habitat degradation in North Carolina estuaries. *Final Report to the EPA E-MAP Carolinian Province Project*, 29 pp.
6. **Eggleston, D. B.** (1998) Population dynamics of the blue crab in North Carolina: Statistical analyses of fisheries survey data. *Final Report for Contract M-6053 to the NC Department of Environmental Health and Natural Resources, Division of Marine Fisheries*, 66 p.
7. **Eggleston, D. B.** (1999). Habitats, hurricanes, and the blue crab. Journal of the NC Wildlife Federation, Summer 1999.
8. "Blue Crab Secrets", Video Produced by UNC-TV.
9. **Eggleston, D. B.**, C. P. Dahlgren and E. G. Johnson. (2000). Fish and Caribbean spiny lobster distribution and abundance patterns in the Key West National Wildlife Refuge: an initial assessment in the Lakes and Marquesas regions. Report #2 in partial fulfillment of a challenge Cost-Share Agreement between the Center for Marine Conservation and U.S. Fish and Wildlife Service for Contract 1448-40181-99-6. 71 pp.
10. "Nassau grouper: Keeper of the Reef", 2001. Video, Produced by ION Digital, Reno, NV.

11. **Eggleston, D. B.**, J. Hightower, P. Rand, C. Dahlgren, A-M.Eklund, and S. Bolden. (2001). Spawning aggregations of Nassau grouper: essential habitat, population structure and fish movement patterns. Final Report for Project CMRC-99-NRDE-03-00A to the Caribbean Marine Research Center, 10 pp.
12. **Eggleston, D. B.** and J. C. Chaves. (2002). Blue crab mortality in North Carolina's soft-shell industry: biological and operational considerations. Final report to the NC Sea Grant/ Fisheries Research Grant Program for Project 01-FEG-03, 38 p.
13. **Eggleston, D. B.**, P. Rand, C. Taylor, A-M. Eklund, J. Schull. (2003). Connectivity and spatial dynamics of a Nassau grouper metapopulation in the Bahamas: fulfilling urgent, key information needs for conservation. Final Report for Contract CMRC-01-NRDE-04, Caribbean Marine Research Center, 40 pp.
14. Lipcius, R.N., W.T. Stockhausen and **D.B. Eggleston**. (2003). Metapopulation dynamics and marine reserves: Caribbean spiny lobster in Exuma Sound, Bahamas. In: Chapter 7, The Bahamas: Tropical Island Nation) **Coastal-Marine Conservation: Science and Policy** (Eds. Ray, G.C. and J. McCormick-Ray). Blackwell Scientific, Oxford, UK.
15. **Eggleston, D. B.**, J. Hightower and E. Johnson. (2004). Population dynamics and stock assessment of the blue crab in North Carolina. Final Report to the NC Sea Grant/Blue Crab Research Program for Project for Projects 99-FEG-10 and 00-FEG-11, 230 pp.
16. **Eggleston, D. B.** and C. P. Dahlgren. (2004). Ingress of postlarval spiny lobster and larval fish to the Key West National Wildlife Refuge: An Initial Assessment in the Lakes and Marquesas Regions. Final Report in Partial Fulfillment of a Challenge Cost-Share Agreement between The Oceans Conservancy and U.S. Fish and Wildlife Service for Contracts 1448-40181-99-6 and 1448-40181-00-6143, June 2004, 33 pp.
17. **Eggleston, D. B.**, S. P. Searcy, G. Plaia, and N. B. Reynolds. (2004) Ingress of postlarval spiny lobster and larval fish to the Great White Heron National Wildlife Refuge: an initial assessment of Atlantic Ocean versus Gulf Stream sources. Final Report in Partial Fulfillment of a Challenge Cost-Share Agreement between The Oceans Conservancy and U.S. Fish and Wildlife Service for Contracts 1448-40181-99-6 and 1448-40181-00-6143. June 2004. 38 pp.
18. **Eggleston, D. B.** G. W. Bell, E.G. Johnson, and G. T. Kellison. (2004). Fish and spiny lobster density, size-structure, and fish diversity within multiple back reef habitats of Great White Heron National Wildlife Refuge, USA. Final Report in Partial Fulfillment of a Challenge Cost-Share Agreement between the Center for Marine Conservation and U.S. Fish and Wildlife Service for Contracts 1448-40181-99-6 and 1448-40181-00-6143, June, 2004, 75 pp.
19. **Eggleston, D. B.** G. Plaia, E. G. Johnson, G. T. Kellison, C. Huggett. (2004). Blue Crab Stock Enhancement: Ecological Feasibility and Pond Culture. Final Report for 02-STOK-02 to the North Carolina Fishery Research Grant Program, Blue Crab Research Program, NC Sea Grant, July 2004, 60 pp.
20. **Eggleston, D. B.**, N. B. Reynolds, G. Plaia, and G. M. Parkins. (2005). High School Students and the Blue Crab: An Educational Outreach Program to Test Recruitment Hypotheses. Final Report for 02-POP-04 to the North Carolina Fisheries Research Grant Program, NC Sea Grant, October 2005, 91 pp.

21. **Eggleston, D. B.**, G. W. Bell, S. P. Searcy, E. G. Johnson, T. Alphin, G. Plaia, M Posey. (2006). Field Assessment of Spawning Sanctuaries and Possible Migration Corridors for the Blue Crab Spawning Stock in North Carolina. Report 01-POP-08 to the NC Blue Crab Research Program, NC Sea Grant, Raleigh, NC, 44 pp.
22. **Eggleston, D. B.**, G. R. Plaia, W. Phillips. (2007). Blue crab dependence on SRV nurseries in Albemarle Sound, NC. Report 05-BIOL-03 to the NC Blue Crab Research Program, NC Sea Grant, Raleigh, NC, 36 pp.
23. Balance, E. G. and **D. B. Eggleston**. 2008. "Oyster dispersal and metapopulation dynamics in Pamlico Sound: Part II, settlement, survival and spawning potential". Report 06-EP-03 to the North Carolina Fishery Research Grant Program, NC Sea Grant, 33 pp.
24. **Eggleston, D. B.**, G. R. Plaia, H. Daniels. 2009. "Blue crab stock enhancement: further progress in freshwater pond rearing". Report 07-STOK-01 to the NC Blue Crab Research Program, NC Sea Grant, Raleigh, NC, 15 pp.

PRESENTATIONS

Contributed:

Estuarine Research Federation (1987, 1995); Marine Benthic Ecology Meetings (1987, 1990, 1992, 1994-96, 1998-2002); Gulf & Caribbean Fisheries Institute Meetings (1988-1992); Blue Crab Conference, Virginia Beach, VA (1988); National Shellfisheries Association (1990); Annual Meeting of the Ecological Society of America (1990, 1992, 1994, 1995); Fifth Intl. Conference on Artificial Habitats for Fisheries (1991); Western Society of Naturalists (1993); Annual Meeting for Society of Conservation Biology, Victoria, B.C. (1997); ICES Recruitment Dynamics meeting; Balt., MD (1997), Blue Crab Symposium, Wilmington, NC (2000); International Lobster Conference and Workshop, Key West, FL (2000), Crustacean Society Meeting, Williamsburg, VA (2003); Marine Benthic Ecology Meeting, Williamsburg, VA (2005), Mangroves as Fish Habitat, Miami, FL (2006), International Confernece on Sea Ranching & Stock Enhancement, Seattle, WA (2006), Benthic Ecology Meeting, Atlanta, GA (2007).

Invited:

Primera Reunion de Evaluacion Academica-Reserva de la Biosfera Sian Ka'an, Chetumal, Mexico (1989); The College of William and Mary (1988, 1991); Association of Marine Laboratories of the Caribbean, Freeport, Bahamas (1991); Florida Institute of Technology (1991); Centro de Investigaciones de Quintana Roo, Chetumal, Mexico (1991); University of Washington (1992); University of Oregon (1992); Texas A&M (1992); North Carolina State University (1993 & 1994), University of North Carolina - Wilmington (1994), East Carolina University (1995); Harvard University (1996); Duke University (1997); American Fisheries Society (NC Chapter Meeting), Raleigh, NC (1997), International Crustacean Congress-Amsterdam (1998), NC Science Teachers Conference (1998), NC State University, School of Veterinary Medicine (1999), University of Maryland (1999) Conference on K-12 Outreach from University Science Departments, Raleigh, NC (2000), Mt. Olive College, NC (2000), University of North Carolina-Chapel Hill (2000), NC Marine Fisheries Commission, Greenville, NC (2001), NC Commercial Fishing Show, New Bern, NC (2001), Abdus Salam International Centre for Theoretical Physics, Trieste, Italy (2001), NC

Division of Marine Fisheries (2002), Duke University (2002), Blue Crab Advanced Research Consortium, Baltimore, MD (2002-04), American Fisheries Society, NC State University chapter, Raleigh, NC (2003), University of Maryland, Chesapeake Biological Laboratory, Solomon's, MD (2003), University of Washington (2003), Spiny lobster workshop, Key West, FL (2003), Center for Marine Science and Technology, Morehead City, NC (2003), NC State University, Dept. of MEAS, Raleigh, NC (2003), NC Commercial Fishing Show, New Bern, NC (2004), Duke University (2004), NC Wesleyan College (2005), Blue Crab Advanced Research Consortium, Ocean Springs, MS (2005), Marine Benthic Ecology Meeting, Blue crab Session, Williamsburg, VA (2005), NC American Fisheries Society Chapter meeting, Raleigh, NC (2005), American Fisheries Society, Anchorage, AK (2005); University of North Carolina-Chapel Hill (2006), Southeast Center for Ocean Science Education Excellence program (2006), U.S. Senate and House staff briefing, Washington, DC (2006), NC Biotechnology Center, Marine Science and Aquaculture Meeting, Morehead City, NC (2006), University of North Carolina-Institute of Marine Sciences (2006), Joint AERS/SEERS Meeting, Atlantic Beach, NC (2007), NC DMF/NC Aquarium/NC Coastal Federation Oyster Summit, Pine Knoll Shores, NC (2007), NOAA/NMFS Beaufort Laboratory, NC (2007), Chesapeake Biological Laboratory, Solomons, MD (2008), Chesapeake Bay Foundation/MD DNR, Annapolis, MD (2009), NC Fisheries Forum, New Bern, NC (2009), Duke University Marine Laboratory (2009).

Invited Workshops:

Infaunal Predation Workshop, The University of Connecticut (1986); Portunid Ecology Workshop, Smithsonian Environmental Research Center (1987); International Workshop on Lobster Ecology and Fisheries, Havana, Cuba (1990); Blue Crab Recruitment Workshops (held in conjunction with the Annual Marine Benthic Ecology Meetings) (1989-1992); Caribbean spiny lobster workshops (held in conjunction with the Annual Gulf and Caribbean Fisheries Institute Meetings (1988-1993); Marine Biotechnology/Technology Reinvestment Project, RTP, NC (1994); NC Ocean Task Force, Wilmington, NC (1994); Albemarle-Pamlico Estuarine Study, NOAA/COP planning workshop (1994); U.S. Southeastern & Caribbean Reef Fish workshop, Charleston, SC (1994); Oyster Reef Restoration workshop, Williamsburg, VA (1995); NC Fisheries Moratorium Steering Committee, Wilmington, NC (8/95, 11/95); United States-Australia workshop on recruitment and population dynamics of coral reef fishes, Cairns, Australia (1995), International Flatfish Workshop, RTP, NC (1998), NOAA Strategic Planning Workshop: Sustainable Fisheries, Washington, D.C. (1998-99), National Center for Ecological Analysis and Synthesis, Nursery habitats (1999-2002), Watersheds & Coastal Zone Simulation Modeling, Trieste, Italy (2000), Mid-Atlantic habitat Workshop, Natural Resources Defense Council, New York (2000), NOAA/NMFS Strategic Planning Workshop, Washington, D.C. (2001), Grays Reef Marine Sanctuary Strategic Planning Meeting, Savannah, GA (2001), Biocomplexity in North Carolina's Aquatic Ecosystems, Morehead City, NC (2001), NC Commercial Fishing Show, New Bern, NC (2002), BackReef Workshop, Caribbean Marine Research Center, Bahamas (2002), Center of Marine Biotechnology, Baltimore, MD (2002), National Marine Sanctuary Program, Monterey, CA & Miami, FL (2002), Spiny lobster workshop, Key West, FL (2003), NC Sea Grant Program Assessment Team visit, CMAST,

Morehead City NC (2003), Center for Marine Biotechnology, Baltimore, MD (2004), Blue Crab Collaborative Learning, Edenton, NC (2005), Center for Marine Biotechnology, Baltimore, MD (2006), NC Marine Science Task Force, Atlantic Beach, NC (2007), Center for Marine Biotechnology, Baltimore, MD (2007 & 2008), NOAA in the Carolinas, Beaufort, NC (2008), Marine Ecosystem Modeling, Beaufort, NC (2008), EPA Coastal Carolinas Program, RTP NC (2008), SPICOSA, Brest, France (2008).

TEACHING EXPERIENCE

- 1986-87: Virginia Department of Education, Programs for the Gifted, The College of William and Mary, School of Marine Science
- 1988-89: Earthwatch-The Center for Field Research, Punta Allen, Mexico
- 1985-89: Open Water through Divemaster Levels of SCUBA curriculum, Department of Physical Education, The College of William and Mary
- 1989-90: Teaching Assistant, "Biological Oceanography", The College of William and Mary, School of Marine Science
- 1987-89: "General Biology" (Lecture and Laboratory), Thomas Nelson Community College, Newport News, VA
- 1990-91: Performed numerous lectures in the following courses at The College of William and Mary, School of Marine Science: "Theoretical Ecology", "Fisheries Ecology", "Experimental Design", and "Biological Oceanographic Processes".
- 1992-93: "Fisheries Ecology and Management", University of Washington, School of Fisheries (with D. Armstrong)
- 1994-Pres. "Marine Benthic Ecology", "Biological Oceanography", "Introductory Oceanography"; "Ecology of Coastal Resources"; "Population Dynamics of Coral Reef Fishes"; "Quantitative Ecology and Experimental Design"; "Ecology of Fishes"; "Design and Analysis of Ecological Experiments"; North Carolina State University

PROFESSIONAL ACTIVITIES AND SOCIETIES

Reviewer:

Australian Journal of Ecology, Biological Bulletin, Bulletin of Marine Science, Choice (book reviews), Crustaceana, Ecology, Estuarine, Coastal & Shelf Science, Ethology Ecology & Evolution, Fisheries Science, Journal of Experimental Marine Biology and Ecology, Journal of Shellfisheries Research, Limnology and Oceanography, Marine Ecology Progress Series, Oikos, Marine Biology, Marine & Freshwater Research, Proceedings of the Gulf and Caribbean Fisheries Institute, Proceedings of the National Academy of Sciences, Transactions of the American Fisheries Society, U.S. Fishery Bulletin, Wetlands.

EPA, National Sea Grant College Program (National Office and various State programs), National Science Foundation, National Undersea Research Program, NOAA Coastal Ocean Program, Minerals Management Program, Smithsonian Scholarly Studies Program, Sigma-Xi Grants-in-aid-of-Research,

Israeli Science Foundation, NSF/NOAA Cameo program, SPICOSA External Review Team, European Union.

Professional Societies:

American Fisheries Society, Ecological Society of America, Estuarine Research Federation, Professional Association of Diving Instructors, Sigma Xi

Certifications:

Beginning and Advanced Hydric Soils Identification (NCSU); ASTM Phase I Environmental Site Assessments (ASTM); Beginning and Advanced Wetland Plant Identification and Delineation (Wetland & Environmental Services, Inc. Myrtle Beach, SC), U.S. Coast Guard Captain's License, 6-passenger; Professional Association of Dive Instructors, Open Water Instructor; National Undersea Research Program Nitrox Research Diver.

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