

Curriculum Vitae Professor Mark J. Butler IV

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EDUCATION

Ph.D. Biological Science, 1988 - Florida State University, Tallahassee, FL
M.S. Zoology, 1983 - Ohio State University, Columbus, OH
B.A. Biology (Geology minor), 1980 - Wittenberg University, Springfield, OH

PROFESSIONAL EMPLOYMENT

2010	Eminent Scholar, Department of Biological Sciences, Old Dominion University
2000	Professor, Department of Biological Sciences, Old Dominion University
2002-2004	Assistant Chairman, Department of Biological Sciences, Old Dominion University
1996-2000	Graduate Program Director, Master's Program in Biology, Old Dominion University
1994	Associate Professor, Department of Biological Sciences, Old Dominion University
1989	Assistant Professor, Department of Biological Sciences, Old Dominion University
1988-1989	Guyer Postdoctoral Fellow, Center for Limnology and Department of Zoology, University of Wisconsin
	Visiting Lecturer in Oceanography, Department of Geology and Oceanography, University of Wisconsin
1988	Postdoctoral Research Associate, Department of Biological Science, Florida State University

ADJUNCT FACULTY APPOINTMENTS

2007-2010	University of Florida, Dept. Fisheries & Aquatic Sciences
1998-present	Old Dominion University, Dept. of Ocean, Earth & Atmospheric Sciences
1999-2005	Florida State University, Dept. of Biological Sciences

PUBLICATIONS

Journal Articles:

- Dolan, T. W. and **M.J. Butler IV**. (in press). Host behavior and habitat structure alter disease dynamics in a social marine species: the Caribbean spiny lobster. *Ecology*
- Kintzing, M.D. and **M.J. Butler IV**. (in press) Direct and indirect predatory effects of the spotted spiny lobster (*Panulirus guttatus*) on the long-spined sea urchin (*Diadema antillarum*). *Marine Ecology Progress Series*.
- Kough, A., C.P. Paris, and **M.J. Butler IV**. (2013). Larval Connectivity and the International Management of Fisheries. *PLOS ONE 8: e64970: 1-11*
- Moss, J., D. Behringer, J. D. Shields, A. Baeza, A. Aguilar-Perera, P. G. Bush, C. Dromer, A. Herrera-Moreno, L. Gittens, T. R. Matthews, M. R. McCord, M. T. Schärer, L. Reynal, N. Truelove, and **M. J. Butler**. (2013). Distribution, prevalence, and genetic analysis of Panulirus argus Virus I from the Caribbean Sea. *Diseases of Aquatic Organisms* 104: 129–140
- Truelove, N.K., E. Burdfield-Steel, S. Griffiths, K. Ley-Cooper, R. Preziosi, **M.J. Butler IV**, D.C. Behringer, S. Box, and S. Canty. (2012) Genetic Connectivity of Caribbean Spiny Lobster (*Panulirus argus*) in Belize. *Proceedings of Gulf and Caribbean Fisheries Institute* 64, 463–467.
- Butler, M. J. IV** and A.M. Mojica. 2012. Effect of the herbivorous channel clinging crab on patch reef algal communities in Florida. *Marine Biology* 159: 2697-2706
- Behringer, D. C., **M.J. Butler IV**, and G. D. Stentiford. 2012. Disease Effects on Lobster Fisheries and Ecology. *Diseases of Aquatic Organisms* 100: 89-93
- Robertson, D.N. and **M. J. Butler IV**. 2012 Mate Choice and Sperm Limitation in the Spotted Spiny Lobster, *Panulirus guttatus*. *Marine Biological Research* 9: 69-76
- Moss J., **M. J. Butler IV**, Behringer D.C., and Shields J.D. 2012. Genetic diversity of the Caribbean spiny lobster virus, Panulirus argus virus 1, in the Florida Keys and the discovery of PaV1 in lobster postlarvae. *Aquatic Biology* 14: 223-232
- Behringer, D.C., J. Moss, J. D. Shields, and **M. J. Butler IV**. 2012. PaV1 infection in the Florida Spiny Lobster Fishery and its Effects on Trap Function and Disease Transmission. *Canadian Journal Fisheries and Aquatic Sciences* 69: 136–144
- Butler, M.J. IV**, C. B. Paris, J. S. Goldstein, H. Matsuda and R. K. Cowen. 2011. Behavior constrains the dispersal of long-lived spiny lobster larvae. *Marine Ecology Progress Series* 422: 223-237.
- Behringer, D.C., **M.J. Butler**, J. Shields, and J. Moss. 2011. A review of Panulirus argus Virus 1 – a Decade after its Discovery. *Diseases of Aquatic Organisms* 94: 153–160.
- Butler, M.J. IV**, J. Heisig-Mitchell, A.B. MacDiarmid, and R.J. Swanson. 2011. The Effect of Male Size and Spermatophore Characteristics on Reproduction in the Caribbean Spiny Lobster, *Panulirus argus*. *New Frontiers in Crustacean Biology* 15: 69-84

- Behringer, D.C., **M.J. Butler**, and J. Shields. 2010. A Review of the Lethal Spiny Lobster Virus PaV1 – Ten Years After Its Discovery. *Proceedings Gulf and Caribbean Fisheries Institute* 62: 370-375.
- Butler, M.J. IV**, A.M. Mojica, E. Sosa-Cordero, M. Millet, P. Sanchez-Navarro, M. A. M. Cuevas, J. Posada, B. Rodriquez, M. Prada, A. Oviedo, M. Arronne, N. Bach, N. Jimenez, M. C. G. Rivas, T. Matthews, and D. Behringer. 2010. Comparison of Lobster Postlarval Recruitment Patterns in the Caribbean: a CRTR Project. *Proceedings Gulf and Caribbean Fisheries Institute* 62: 360-369
- Behringer, D.C. and **M.J. Butler IV**. 2010. Disease Avoidance and its Role in Shelter Competition and Predation in Caribbean Spiny Lobster. *Behavioral Ecology and Sociobiology* 64:747–755
- Robertson, D.R. and **M.J. Butler IV**. 2009. Variable reproductive success in isolated populations of lobster. *Journal of Experimental Marine Biology and Ecology* 377: 84-92
- Goldstein, J.S. and **M.J. Butler IV**. 2009. Behavioral enhancement of onshore transport by postlarval Caribbean spiny lobster (*Panulirus argus*). *Limnology and Oceanography* 54: 1669-1678.
- Butler, M.J. IV** and J.A. Lear. 2009. Habitat-based intraguild predation by Caribbean reef octopus (*Octopus briareus*) on juvenile Caribbean spiny lobster (*Panulirus argus*). *Marine Ecology Progress Series* 386:115-122.
- Steneck, R.S., M.C. Ablan, A. Alcala, S. Arnold, **M.J. Butler**, L. McCook, C. Paris, G. Russ and P.F. Sale. 2009. Managing outside the box: coalescing connectivity networks to build resilience in coral reef ecosystems. *Coral Reefs* 28:367-378
- Behringer, D.C., **M. J. Butler IV**, W. F. Herrnkind, J. H. Hunt, C. A. Acosta, and W. C. Sharp. 2009. Is seagrass an important nursery habitat for the Caribbean spiny lobster, *Panulirus argus*, in Florida? *New Zealand Journal of Marine and Freshwater Research* 43: 327-337
- Bertelsen, R.D., **M. J. Butler IV**, W. F. Herrnkind, and J. H. Hunt. 2009. Regional Characterization of Hard-bottom Nursery Habitat for Juvenile Caribbean Spiny Lobster Using Rapid Assessment Techniques. *New Zealand Journal of Marine and Freshwater Research* 43: 299-312
- Butler, M.J. IV**, D.C. Behringer, J.D. Shields. 2008. Transmission of *Panulirus argus* virus 1 (PaV1) and its effect on the survival of juvenile Caribbean spiny lobster. *Diseases of Aquatic Organisms* 79: 173-182.
- Behringer, D.B., **M.J. Butler IV**, and J.D. Shields. 2008. Effect of PaV1 infection on Caribbean spiny lobster (*Panulirus argus*) movement, condition, and survival. *Journal of Experimental Marine Biology and Ecology* 359: 26-33.
- Goldstein, J.S., H. Matsuda, T. Takenouchi, and **M.J. Butler IV**. 2008. A description of the complete development of larval Caribbean spiny lobster *Panulirus argus* (LATREILLE, 1804) in culture. *Journal of Crustacean Biology* 28: 306-327.
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- Torres, R.C., **M.J. Butler**, and B. Shellito. 2006. A GIS-based characterization of commercial sponge populations in the Florida Keys, FL (USA). *Proceedings of the Gulf and Caribbean Fisheries Institute* 57: 1043-1044.
- Behringer, D.C. Jr., **M.J. Butler IV**, and Jeffery Shields. 2006. Avoidance of disease in social lobsters. *Nature* 441: 421
- Behringer, D.C. Jr and **M.J. Butler IV**. 2006. Trophic structure in a tropical hard-bottom community: a stable-isotope analysis. *Oecologia* 148: 334 - 341

- Behringer, D.C. Jr, and **M. J. Butler IV**. 2006. The impact of artificially enhanced density on juvenile spiny lobster condition, residency, and disease in wild populations. *Journal of Experimental Marine Biology and Ecology* 334: 84-95
- Dolan, Thomas W. III and **M. J. Butler IV**. 2006. Modeling ontological changes in the social behavior of juvenile Caribbean spiny lobster, *Panulirus argus*. *Journal of Crustacean Biology* 26: 565 – 578.
- Robles, M.D., C.J. Madden, M.R. Lara, D.L. Jones, and **M.J. Butler**. 2005. Condition of the Natural Resources of Florida Bay, Everglades National Park. State of the Parks Technical Report, NatureServe, Arlington, Virginia, 102p.
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- Butler, M. J. IV**. 2005. Benthic Fisheries Ecology in a Changing Environment: Unraveling Process to Achieve Prediction. *Aquatic Living Resources* 18: 301-311
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- Castaneda-Fernandez, V., **M. Butler**, S. Hernandez-Vazquez, S. Guzman del Proo, and E. Serviere-Vasquez. 2005. Determination of preferred habitats of early benthic juvenile California spiny lobster, *Panulirus interruptus*, on the Pacific coast of Baja California Sur, Mexico. *Marine and Freshwater Research* 56: 1 – 9.
- Pease, M., R.K. Rose, and **M.J. Butler IV**. 2005. Effects of human disturbance on the behavior of wintering ducks. *Wildlife Society Bulletin* 33: 103-112
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- Butler, Mark J. IV**, Thomas Dolan, William Herrnkind, and John Hunt. 2001. Modeling the effect of spatial variation in postlarval supply and habitat structure on recruitment of Caribbean spiny lobster. *Marine and Freshwater Research* 52: 1243 - 1253
- Butler, Mark J. IV**. 2001. Lobster biology and management: an introduction. *Marine and Freshwater Research* 52: 1033 - 1036
- Berger, Dianne K. and **Mark J. Butler IV**. 2001. Do octopuses influence den selection by juvenile Caribbean spiny lobster? *Marine and Freshwater Research* 52: 1049- 1054
- Reznick, D., **M.J. Butler IV**, and H. Rodd. 2001. Life history evolution in guppies 7: the comparative ecology of high and low predation environments. *American Naturalist* 157: 126-140
- Robertson, D.N., **M. J. Butler**, and F.C. Dobbs. 2000. An evaluation of lipid- and morphometric-based indices of nutritional condition for early benthic stage spiny lobsters, *Panulirus argus*. *Marine and Freshwater Behavior and Physiology* 33: 161-171

- Sharp, W.C., W.A. Lellis, **M.J. Butler**, W.F. Herrnkind, J.H. Hunt, M. Pardee-Woodring, and T.R. Matthews. 2000. The use of coded microwire tags for mark-recapture studies of juvenile Caribbean spiny lobster, *Panulirus argus*. *Journal of Crustacean Biology* 20: 510-521
- Butler, M.J. IV**, A.B. MacDiarmid, and J.D. Booth. 1999. Ontogenetic changes in social aggregation and its adaptive value for spiny lobsters in New Zealand. *Marine Ecology Progress Series* 188: 179-191
- MacDiarmid, A.B. and **M. J. Butler IV**. 1999. Sperm economy and limitation in spiny lobsters. *Behavioral Ecology and Sociobiology*. 46: 14-24
- Acosta, C.A. and **M.J. Butler IV**. 1999. Adaptive strategies that reduce predation on spiny lobster postlarvae during onshore transport. *Limnology and Oceanography* 44:494-501
- Acosta, C.A. and **M. J. Butler IV**. 1997. The role of mangrove habitat as nursery for juvenile spiny lobster, *Panulirus argus*, in Belize. *Marine and Freshwater Research* 48:721-728
- Herrnkind, W.H., **M.J. Butler IV**, J.H. Hunt, and M. Childress. 1997. The role of physical refugia: implications from a mass sponge die-off in a lobster nursery. *Marine and Freshwater Research* 48: 759-770
- Butler, M.J. IV**. 1997. Benthic processes in lobster ecology: report from a workshop. *Marine and Freshwater Research* 48: 659-662
- Butler, M.J. IV**, W.F. Herrnkind, and J. H. Hunt. 1997. Factors affecting the recruitment of juvenile Caribbean spiny lobsters dwelling in macroalgae. *Bulletin of Marine Science* 61: 3-19
- Acosta, C.A., T.R. Matthews, and **M. J. Butler IV**. 1997. Temporal patterns and transport processes in recruitment of spiny lobster, *Panulirus argus*, postlarvae to south Florida. *Marine Biology* 129: 79-85
- Butler, M.J. IV** and W.F. Herrnkind. 1997. A test of recruitment limitation and the potential or artificial enhancement of spiny lobster populations in Florida. *Canadian Journal of Fisheries and Aquatic Sciences* 54: 452-463
- Herrnkind, W.F., **M.J. Butler IV**, and J.H. Hunt. 1997. Can artificial habitats that mimic natural structures enhance recruitment of Caribbean spiny lobster? *Fisheries* 22: 24-27
- Heffner, R.A., **M.J. Butler IV**, and C.K. Reilly. 1996. Pseudoreplication revisited. *Ecology* 77: 2558-2562
- Reznick, D.A., **M.J. Butler IV**, H. Rodd, and P. Ross. 1996. Life history evolution in guppies (*Poecilia reticulata*) 6. differential mortality as a mechanism for natural selection. *Evolution* 50: 1651-1660
- Butler, M.J. IV**, J.H. Hunt, W.F. Herrnkind, T. Matthews, M. Childress, R. Bertelsen, W. Sharp, J.M. Field, and H. Marshall. 1995. Cascading disturbances in Florida Bay, USA: cyanobacteria blooms, sponge mortality, and implications for juvenile spiny lobster *Panulirus argus*. *Marine Ecology Progress Series* 129: 119-125
- 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. *Crustaceana* 67: 26-45
- Herrnkind, W.F. and **M.J. Butler IV**. 1994. Settlement of spiny lobsters, *Panulirus argus* in Florida: pattern without predictability. *Crustaceana* 67: 46-64
- Forcucci, D.M., **M.J. Butler IV**, and J.H. Hunt. 1994. Growth and population dynamics of juvenile Caribbean spiny lobster, *Panulirus argus*, in Florida Bay, FL (USA). *Bulletin of Marine Science* 54: 805-818

- Mattingly, H.T. and **M.J. Butler IV**. 1994. Laboratory predation on the Trinidadian guppy: implications for the size-selective predation hypothesis and guppy life history evolution. *Oikos* 69: 54-64
- Butler, M.J., IV** and W.F. Herrnkind. 1992. Spiny lobster recruitment in south Florida: field experiments and management implications. *Proceedings of the Gulf and Caribbean Fisheries Institute* 41: 508-515.
- Butler, M.J., IV** and W.F. Herrnkind. 1992. Are artificial "Witham" surface collectors adequate indicators of Caribbean spiny lobster recruitment? *Proceedings of the Gulf and Caribbean Fisheries Institute* 42: 135-136.
- Butler, M.J., IV** and W.F. Herrnkind. 1991. Effect of benthic microhabitat cues on the metamorphosis of postlarvae of the spiny lobster *Panulirus argus*. *Journal of Crustacean Biology* 11:23-28.
- Butler, M.J., IV**. 1989. Community responses to variable predation: field experiments with sunfish and freshwater macroinvertebrates. *Ecological Monographs* 59: 311-328.
- Butler, M.J., IV**. 1988. In situ observations of bluegill (*Lepomis macrochirus*) foraging behavior: the effects of habitat complexity, school size, and predators. *Copeia* 1988: 941-946.
- Butler, M.J., IV**. 1988. An evaluation of reproductively-mediated character displacement in the crayfishes *Orconectes rusticus* and *O. sanborni*. *Ohio Journal of Science* 88: 87-91.
- Herrnkind, W.F., **M.J. Butler IV**, and R.A. Tankersley. 1988. The effects of siltation on the recruitment of spiny lobsters (*Panulirus argus*) in south Florida. *Fisheries Bulletin* 86: 331-338.
- Butler, M.J., IV**. 1985. On the nature of NABS: a comment. *Bulletin of the North American Benthological Society* 2: 63-66.
- Herrnkind, W.F. and **M.J. Butler IV**. 1986. Factors regulating settlement and microhabitat use by juvenile spiny lobsters, *Panulirus argus*. *Marine Ecology Progress Series* 34: 23-30.
- Butler, M.J., IV** and R.A. Stein. 1985. Range expansion in crayfish: an analysis of the replacement mechanisms. *Oecologia* 66: 168-177.
- Butler, M.J., IV** and H.H. Hobbs III. 1982. Drift and upstream movement of invertebrates in a springbrook community ecosystem. *Hydrobiologia* 89: 153-159.
- Hobbs, H.H., III and **M.J. Butler IV**. 1981. A sampler for simultaneously measuring drift and upstream movement of aquatic macroinvertebrates in lotic environments. *Journal of Crustacean Biology* 1: 140-146.

Books and Book Chapters:

- Butler, M.J. IV**. In press. Collection and preservation of Lobsters, Pp. ?? in *Crustacean Field Collecting and Preservation Techniques*, DeGrave, S. and J. Martin (Eds.), Cambridge University Press, Cambridge, United Kingdom
- Butler, M.J. IV**. 2012. Caribbean Spiny Lobsters Require Healthy Nursery Habitats. Pp. 389-390 in *Tropical Connections: Facts about south Florida's marine environment*. Kruczynski, William L. and Pamela J. Fletcher (eds), IAN Press, University of Maryland Center for Environmental Science, Cambridge, Maryland. 452 pp.
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- Sale, P.F., H. Van Lavieren, M.C. Ablan Lagman, J. Atema, **M. Butler**, F. Fauvelot, J.D. Hogen, G.P. Jones, K.C. Lindeman, C.B. Paris, R. Steneck, and H.L. Stewart. 2010. Preserving Reef Connectivity: A Handbook for Marine Protected Area Managers. Connectivity Working Group, Coral Reef Targeted Research and Capacity Building for Management Program, UNU-INWEH, Hamilton, Ontario, Canada. 78p.
- Ehrhardt, N.M., R. Puga, and **M. Butler IV**. 2010. Large ecosystem dynamics and fishery management concepts: The Caribbean spiny lobster, *Panulirus argus*, fisheries. In: *Towards Marine Ecosystem-Based Management in the Wider Caribbean*. Fanning, L., R. Mahon and P. McConney (eds). Amsterdam University Press, Amsterdam.
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- Herrnkind, W.F., **M.J. Butler IV**, and J. H. Hunt. 1999. A case for shelter replacement in a disturbed spiny lobster nursery in Florida: why basic research had to come first. In *Fish Habitat: Essential Fish Habitat and Rehabilitation*, American Fisheries Society.
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Other Published Articles:

- Goldstein, J. and **M.J. Butler IV**. 2009. Not all those who wander are lost: Phyllosoma behavior may help unravel connectivity in the Caribbean spiny lobster, *Panulirus argus*. The Lobster Newsletter 22(1): 9 - 12.
- Sale, P.F., **M. J. Butler IV**, A. Hooten, K. Lindeman, Y. Sadovy, and R. S. Steneck. 2008. Stemming Decline of the Coastal Ocean: Rethinking coastal marine management. United Nations Policy Brief, United Nations University, Hamilton, Ontario, Canada.
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- Browder, J.A., C. Yeung, T. Schmidt, **M.J. Butler IV**, M. Criales, A. Powell, D. DeAngelis, d. Evans, L. Settle, B. Sharp, C. Faunce, J. Ault, A.M. Eklund, G.L. Wyngard, G. Thayer, D. Johnson, D. Rumbold, J. Chanton, C. Chasar, J. Lorenz, E. Matheson, J. Colvocoresses, M. Robblee, L. Engleby, C. Koenig, and S. Whitcraft. 2007. Chapter 8: Higher-Trophic Level Species, pp. 110-148 in Florida Bay Science Program: A Synthesis of Research on Florida Bay, J. Hunt and W. Nuttle (eds), Fish & Wildlife Research Institute Technical Report TR-11, 148pp.
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- Butler, M.J.** and A.B. MacDiarmid. 1998. Sperm limitation in exploited populations of spiny lobsters. *Bulletin of the Ecological Society of America* 79 (3)
- Butler, M.J.**, W.F. Herrnkind, J.H. Hunt, and J.F. Field. 1996 Factors limiting spiny lobster distribution and abundance in Florida Bay: a preliminary report. *Proceedings of the Gulf and Caribbean Fisheries Institute* Vol. 44: 594.
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- Herrnkind, W.F., **M.J. Butler IV**, and D. Forcucci. 1994 The duration of the inshore postlarval stage of the spiny lobster *Panulirus argus*: implications to recruitment. *Proceedings of the Gulf and Caribbean Fisheries Institute* Vol. 43: 647

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- Butler, M.J., IV**. 1988. Community responses to variation in predation: field experiments with bluegill sunfish and lentic macroinvertebrates. *Bulletin of the North American Benthological Society* 5: 84.
- Butler, M.J., IV**. 1988. Variable predation and prey community dynamics: sunfish - macroinvertebrate interactions. *Bulletin of the Ecological Society of America* 69: 89.
- Butler, M.J., IV**. 1987. Effects of variation in predation and prey recruitment on prey community structure: field experiments with bluegill sunfish and macroinvertebrate prey in a North Florida lake. *Bulletin of the Ecological Society of America* 68: 274-275.
- Butler, M.J., IV**. 1986. Effects of temporal and spatial variation in fish predation and invertebrate recruitment on freshwater littoral zone communities. *Bulletin of the Ecological Society of America* 67: 35.
- Butler, M.J., IV**. 1986. The rusty crayfish: tyrant or prude? *Natural History* 95:4.
- Butler, M.J., IV** and W.F. Herrnkind. 1985. Habitat selection and predation in juvenile spiny lobsters: the importance of the red algae *Laurencia*. *Bulletin of the Ecological Society of America* 66: 149.
- Tankersley, R.A., W.F. Herrnkind, and **M.J. Butler**. 1985. Factors influencing habitat selection of young juvenile spiny lobsters, *Panulirus argus*. *American Zoologist* 25: 122.
- Butler, M.J., IV**. 1984. Character displacement in crayfish: a case of rapid, non-competitive evolution? *Bulletin of the Ecological Society of America* 65: 74.
- Butler, M.J., IV** and R.A. Stein. 1982. Interspecific displacement of crayfish: an analysis of the competitive mechanisms. *Bulletin of the Ecological Society of America* 63: 113.
- Cotner, J. and **M.J. Butler**. 1981. Community structure, drift, and upstream migration of the crustaceans *Synurella dentata* Hubricht and *Lirceus fontinalis* Raf. in a temperate spring. *Ohio Journal of Science* 81: 101.
- Butler, M.J., IV**. 1980. A study of the chemical and physical parameters of a temperate hardwater spring in John Bryan State Park, Green County, Ohio. *Ohio Journal of Science* 80: 93.

SCIENTIFIC PRESENTATIONS

Invited Presentations at Scientific Meetings:

- Butler, M.J. IV. 2011. Bugs Beneath the Fabric: Direct and Indirect Consequences of Marine Diseases. 8th Mote International Symposium: Species interactions in marine communities: the invisible fabric of nature, Sarasota, FL. Expenses paid.
- Butler, M.J. IV. 2011. Plenary Speaker: Marine Diseases: Ecologically Relevant and Consequential to Lobsters. 9th International Conference and Workshop on Lobsters. Bergen, Norway. *Expenses paid.*
- Butler, M. J. IV, DC Behringer, TW Dolan, JD Shields, and J Moss. 2011. Behavior influences viral disease dynamics in Caribbean spiny lobster. American Society of Limnology and Oceanography, San Juan, Puerto Rico.
- Butler, Mark J. IV. 2010. Marine diseases: an emerging ecological force. Plenary speaker, New England Lobster Disease Workshop, Kingston, Rhode Island. *All expenses paid.*
- Butler, Mark J. IV. 2009. Multiplicative effects of Exploitation on Caribbean Spiny Lobster, The Crustacean Society Annual Conference, Tokyo, Japan. *All expenses paid.*
- Butler, Mark J. IV, R. Cowen, and C. Paris. 2008. Coral Reef Targeted Research Lobster Connectivity project update: managing in and outside the MPA box. Coral Reef Connectivity Workshop, Ft. Lauderdale, FL. *All expenses paid.*
- Butler, Mark, Donald Behringer, Tom Matthews and John Hunt. 2008. Bloom impacts on hard-bottom communities. Algal Bloom Workshop: Re-evaluation of management needs in Florida Bay. Homestead, FL. *All expenses paid.*
- Butler, Mark. 2007. Behavioral influences on the ecology of lobsters. 8th International Lobster Conference, Prince Edward Island, Canada
- Butler, Mark. 2007. Marine larval connectivity at its extreme: the case for spiny lobsters. Workshop: Connectivity and Population Resilience – Sustaining Coral Reefs During the Coming Century, Townsville, Australia. *All expenses paid.*
- Butler, Mark, Robert Cowen, Hirokazu Matsuda, Jason Goldstein, and Claire Paris. 2006. Connectivity in Caribbean Spiny Lobster: the tail of the dispersal kernel? Gulf and Caribbean Fisheries Institute Meeting, Connectivity in the Caribbean Symposium, Belize City, Belize.
- Butler, Mark J. IV, B. Danilowicz, K. Lindeman, P. Sale, and R. Steneck. 2006. A recruitment monitoring program for spiny lobster in Mesoamerica. Connectivity of Mesoamerican Reefs Symposium, Miami, Florida. *All expenses paid.*
- Butler, Mark J. IV, R. Cowen, J. Goldstein, H. Matsuda, and C. Paris. 2006. Why we need connectivity information for lobster in Mesoamerica. Connectivity of Mesoamerican Reefs Symposium, Miami, Florida. *All expenses paid.*
- Butler, Mark J. IV, Donald Behringer, and A. Kathryn Kauffman. 2005. Hard-bottom community ecology in the Florida Keys with an Emphasis on Sponges. Florida Bay Science Conference, Duck Key, FL.
- Butler, Mark J. IV. 2005. Keynote Presentation: Recent advances in research on the behavior and ecology of spiny lobster. Rhode Island Sea Grant Symposium on Lobsters. Providence, RI. *All expenses paid.*

- Butler, Mark J. IV, MacDiarmid A.B, Robertson D.R. 2005. Investigations of sperm limitation in spiny lobster in Florida (USA). Part I: exploited vs. unexploited species. Symposium: Human effects on Decapod Mating Systems, International Crustacean Congress. Glasgow, Scotland.
- Butler, Mark J. IV, Dolan T., Goodrich, M. 2005. Investigations of sperm limitation in spiny lobster in Florida (USA). Part II: a spatially-explicit individual-based model. Symposium: Human effects on Decapod Mating Systems, International Crustacean Congress. Glasgow, Scotland.
- Butler, Mark. J. IV M.J., Shields J.D., Behringer D.C., Ratzlaff R.. 2005. A Pathogenic Viral Disease in Spiny Lobster: Disease Dynamics, Transmission, and Ecological Relevancy Symposium: Diseases in Crustacea, International Crustacean Congress. Glasgow, Scotland.
- Butler, Mark J. IV. 2004. Keynote Presentation: Benthic Fisheries Ecology in a Changing Environment: Unraveling Process to Achieve Prediction. Australian Society for Fish Biology, Adelaide, Australia. *All expenses paid.*
- Butler, Mark J. IV. 2004. Symposium Plenary Presentation: The Ecological Consequences of Catching the Big Ones. Australian Society for Fish Biology, Adelaide, Australia. *All expenses paid.*
- Butler, Mark J. IV. 2004. Status of spiny lobster and sponge research in the Florida Keys. Florida Keys National Marine Sanctuary “Connectivity” Conference, Key West, FL. *All expenses paid.*
- Butler, Mark J. IV and T.W. Dolan. 2003. From individuals to ecosystems using spatially-explicit individual-based modeling. American Society of Limnology & Oceanography, Salt Lake City, UT.
- Butler, Mark J. IV. 2001. Life history, individual variability, and environmental structure: incorporating ecological process into spiny lobster population models. European Decapod Fisheries Assessment and Management Meeting, La Coruna, Spain. *All expenses paid.*
- Butler, Mark J. IV, Alison B. MacDiarmid, and Jamie Heisig. 2000. Sperm depletion and fertilization success of Caribbean spiny lobster in marine reserves and fished areas. 6th International Conference and Workshop on Lobster Biology & Management, Key West, FL
- Butler, M.J. IV. 1999. Salinity changes and model predictions: will spiny lobster tolerate our environmental monkey-business? Florida Bay Conference, Key Largo, FL.
- Butler, M.J. IV. 1999. Keynote Presentation: Ecological models in the Florida Spiny Lobster Fishery. U.S./Canadian Lobster Summit III, Rockport, ME. *All expenses paid.*
- Butler, M.J. IV. 1999. Recruitment of Caribbean spiny lobster in Florida I., Australian Rock Lobster Workshop, Hobart, Tasmania. *All expenses paid.*
- Butler, M.J. IV. 1999. Recruitment of Caribbean spiny lobster in Florida II., Australian Rock Lobster Workshop, Adelaide, South Australia. *All expenses paid.*
- Butler, M.J. 1998. Modeling higher trophic levels in Florida Bay: predictions from a spatially-explicit, individual-based model for spiny lobsters. Florida Bay Science Conference, Miami, FL.
- Butler, M.J. and W.F. Herrnkind. 1997. Nursery habitat structure impacts the recruitment of Caribbean spiny lobsters: predictions from a spatially-explicit individual-based model. International Lobster Conference, Queenstown, New Zealand. *All expenses paid.*
- Butler, M.J. IV and W.F. Herrnkind. 1995. Factors affecting the distribution and survival of juvenile Caribbean spiny lobsters in macroalgae. Nemuro Conference on Oceans and Fisheries 1995: Spiny and Clawed Lobsters, Nemuro, Hokkaido, JAPAN. *All expenses paid.*
- Butler, M.J., W.F. Herrnkind, and J.H. Hunt. 1994. Spiny lobster recruitment in a changing south Florida ecosystem. Coastal Wetland Ecology & Management Symposium, Key Largo, FL. *All expenses paid.*

Butler, M.J., W.F. Herrnkind, J.H. Hunt, and J.M. Field. 1993. Recruitment of spiny lobsters in Florida: lessons from the Caribbean spiny lobster, *Panulirus argus*. International Lobster Conference, Sanriku, Japan. *All expenses paid*.

Contributed Presentations:

Over 150 presentations as author or co-author at scientific conferences, including the following:

- Butler, Mark Andrew Kough, Don Behringer, and Claire Paris. 2013. "Marine disease connectivity and its potential management", 42nd Benthic Ecology Meeting, Savannah, GA.
- Butler, Mark, A. Kough, C. Paris. 2012. Caribbean-wide Patterns of Spiny Lobster Larval Connectivity: the "Holy Grail" for International Fishery Management of an Iconic Species. Benthic Ecology Meeting, Norfolk, VA.
- Butler, Mark J. IV, D.C. Behringer, T.W. Dolan, J.D. Shields, and J. Moss. 2011. Behavior influences viral disease dynamics in Caribbean spiny lobster. Benthic Ecology Meeting, Mobile, AL.
- Butler, Mark, D. Behringer, J. Shields, C. Paris, J. Moss and R. Cowen. 2010. Connectivity, Environmental Degradation, and Behavioral Influences on Disease in Lobster. Florida Keys Ecosystem Conference, Duck Key, FL.
- Butler, Mark, D. Behringer, J. Anderson, A. Baeza, J. Butler, M. Dickson, A. Spadero, C. Stall, N. Truelove, E. Yudelman, and T. Ziegler. 2010. Sponge Community Restoration Research in the Everglades and the Florida Keys National Marine Sanctuary. Florida Keys Ecosystem Conference, Duck Key, FL.
- Butler, M.J. IV, A.M. Mojica, E. Sosa-Cordero, M. Millet, P. Sanchez-Navarro, M. A. M. Cuevas, J. Posada, B. Rodriguez, M. Prada, A. Oviedo, M. Arronne, N. Bach, N. Jimenez, M. C. G. Rivas, T. Matthews, and D. Behringer. 2009. Comparison of Lobster Postlarval Recruitment Patterns in the Caribbean: a CRTR Project. Gulf and Caribbean Fisheries Institute, Cumanas, Venezuela.
- Butler IV, M.J., C. Paris, R. Cowen, H. Matsuda, and J. Goldstein. 2009. Behavior and Oceanographic Environments Constrain Caribbean Spiny Lobster Dispersal. Gulf and Caribbean Fisheries Institute, Cumanas, Venezuela.
- Butler IV, M.J. and D.C. Behringer, Jr. 2008. Déjà vu all over again: the impact of recent cyanobacteria blooms on hard-bottom communities in Florida Bay and the Florida Keys. Florida Bay and Everglades Ecosystem Conference, Naples, FL.
- Butler IV M.J., Behringer D.C, Dolan, T.W., Shields J.D., Ratzlaff R. 2008. Dynamics and Ecological Relevancy of a Viral Disease in Caribbean Spiny Lobster. International Coral Reef Symposium, Ft. Lauderdale, FL.
- Butler, M.J. IV, R. Cowen, C. Paris, H. Matsuda, and J. Goldstein. 2008. Long PLDs, Larval Behavior, and Connectivity in Spiny Lobster. International Coral Reef Symposium, Ft. Lauderdale, FL.
- Butler, Mark, and Donald Behringer. 2008. Déjà vu all over again: the impact of catastrophic algal blooms on hard-bottom communities in the Florida Keys. Benthic Ecology Meeting, Providence, RI
- Butler, Mark, Robert Cowen, Hirokazu Matsuda, Jason Goldstein, Claire Paris. 2007. Larval behavior and connectivity in Caribbean Spiny Lobster. 8th International Lobster Conference, Prince Edward Island, Canada
- Butler, Mark, Robert Cowen, Hirokazu Matsuda, Jason Goldstein, Claire Paris, and Thomas Dolan. 2007. Connectivity in Caribbean Spiny Lobster: the tail of the dispersal kernel? Marine Benthic Ecology Meeting, Atlanta, GA

- Butler, Mark, Alison MacDiarmid, Thomas Dolan and Michael Goodrich. 2006. Mating behavior, sperm limitation, and fishing: empiricism and modeling of spiny lobsters in Florida and New Zealand. Mote Fisheries Ecology Symposium, Sarasota, FL.
- Butler, Mark J. IV., Alison MacDiarmid, Thomas Dolan, and Michael Goodrich. 2006. Modeling sperm limitation in spiny lobsters in MPAs & fished areas in Florida and New Zealand. Marine Benthic Ecology Meeting, Quebec, CANADA.
- Butler, Mark J. IV, Donald Behringer, and Jeffery Shields. 2005. A Pathogenic viral disease infecting juvenile spiny lobster in the Florida Keys. Florida Bay Science Conference, FL.
- Butler, Mark J. IV. 2005. The ecology of sponges subject to fishing and ecosystem change. Benthic Ecology Meeting, Williamsburg, VA.
- Butler, M.J. IV, William F. Herrnkind, Donald Behringer, Denice Robertson, and John Hunt. 2004. A Region-scale Test of Recruitment Limitation of Spiny Lobster in the Florida Keys. 33rd Annual Benthic Ecology Meeting, Mobile, AL.
- Butler, M.J., S. Donahue, and T. Dolan. 2004. Everglades restoration and the consequent effects of altered salinity on nursery habitat structure and spiny lobster recruitment. 7th International Lobster Conference and Workshop, Hobart, Tasmania
- Butler, M.J., W. F. Herrnkind, D. C. Behringer, D. Robertson, and J. Hunt. 2004. A region-scale test of recruitment Limitation of Spiny Lobster in the Florida Keys. 7th International Lobster Conference and Workshop, Hobart, Tasmania
- Butler, M.J. and J. H. Hunt. 2003. Regional Assessment of Hard-bottom Communities in the Florida Keys with an Emphasis on Lobster and Sponge Dynamics. Everglades and Florida Bay Joint Science Meeting, Tarpon Springs, FL.
- Butler, Mark J. IV, Scott Donahue, and Tom Dolan. 2002. Everglades restoration and the effects of changing salinity on hard-bottom communities in Florida Bay. 31st Annual Benthic Ecology Meeting, Orlando, FL.
- Butler, Mark J. IV and Scott Donahue. 2001. The potential effects of changing salinity on hard-bottom habitat and spiny lobster recruitment in Florida Bay. Florida Bay Conference, Key Largo, FL.
- Butler, Mark J. IV, Alison MacDiarmid, and Jamie Heisig. 2001. Sperm depletion and fertilization success of Caribbean spiny lobster in marine reserves and fished areas. 30th Annual Benthic Ecology Meeting, Durham, NH.
- Butler, Mark J. IV, Thomas Dolan, William Herrnkind, and John Hunt. 2000. Variable postlarval supply and salinity change in the nursery: can Caribbean spiny lobster cope? 6th International Conference and Workshop on Lobster Biology & Management, Key West, FL
- Butler, M.J. and A.B. MacDiarmid. 1999. Sperm limitation in exploited spiny lobster populations and in marine reserves. Gulf and Caribbean Fisheries Institute Meeting, Key West, FL
- Butler, M.J. IV and A.B. MacDiarmid. 1998. Sperm limitation in exploited populations of spiny lobsters. Ecological Society of America Meeting, Baltimore, MD.
- Butler, M.J. IV and A.B. MacDiarmid. 1998. Sperm ain't cheap for spiny lobsters! Marine Benthic Ecology Meeting, Melbourne, FL.
- Butler, M.J. IV, J. H. Hunt, and W.F. Herrnkind. 1997. Recruitment of Caribbean spiny lobster in a dynamic nursery: predictions from a spatially-explicit individual-based model. International Council for the Exploration of the Sea, Baltimore, MD.
- Butler, M.J. IV, A.B. MacDiarmid, and J.D. Booth. 1997. Ontogenetic changes in aggregation and its adaptive value for New Zealand spiny lobsters. Marine Benthic Ecology Meeting, Portland, ME.

- Butler, M.J. IV, W.F. Herrnkind, J.H. Hunt, and R. Bertelsen. 1996. Recruitment of Caribbean Spiny Lobsters in a Dynamic Nursery.. Marine Benthic Ecology Meeting, Columbia, SC.
- Butler, M.J., W.F. Herrnkind, and J.H. Hunt. 1994. Cascading disturbances in an ailing marine ecosystem impact the spiny lobster nursery of south Florida. Ecological Society of America, Knoxville, TN.
- Butler, M.J., W.F. Herrnkind, and J.H. Hunt. 1993. Spiny lobster research in an ailing marine ecosystem. Marine Benthic Ecology Meeting, Mobile, AL
- Butler, M.J., W.F. Herrnkind, and J.H. Hunt. 1992. Factors limiting spiny lobster distribution and abundance in Florida Bay: a preliminary report. Gulf and Caribbean Fisheries Institute, Nassau, Bahamas.
- Butler, M.J. IV and W.F. Herrnkind. 1991. Settlement of spiny lobster postlarvae: patterns and predictability. Marine Benthic Ecology Meeting, Williamsburg, VA
- Butler, M.J. IV and W.F. Herrnkind. 1990. Studies of spiny lobster recruitment in South Florida: a status report. Blue Crab Recruitment Workshop, Dauphin Island, AL
- Butler, M.J. IV and W.F. Herrnkind. 1990. Spiny lobster recruitment in South Florida: a status report. Spiny Lobster Workshop, Long Key, FL
- Butler, M.J. IV and W.F. Herrnkind. 1990. Does settlement or juvenile habitat availability regulate juvenile spiny lobster abundance? Ecological Society of America, Snowbird, UT
- Butler, M.J. IV and W.F. Herrnkind. 1990. Does settlement or habitat availability regulate Caribbean spiny lobster abundance? Marine Benthic Ecology Meeting, Mobile, AL
- Butler, M.J. IV and W.F. Herrnkind. 1990. Are artificial "Witham" surface collectors adequate indicators of Caribbean spiny lobster, *Panulirus argus* recruitment? Gulf and Caribbean Fishery Institute, Ocho Rios, Jamaica
- Butler, M.J. 1989. Fish predation or macroinvertebrate colonization: which structures lake-bottom communities? North American Benthological Society, Guelph, Ontario
- Butler, M.J. 1988. Community responses to variation in predation: field experiments with bluegill sunfish and lentic macroinvertebrates. North American Benthological Society, Tuscaloosa, AL
- Butler, M.J. 1988. Variable predation and prey community dynamics: sunfish-macroinvertebrate interactions. Ecological Society of America, Davis, CA
- Butler, M.J. and W.F. Herrnkind. 1988. Spiny lobster recruitment in south Florida: field experiments and management implications. Gulf and Caribbean Fishery Institute, St. Thomas, USVI
- Butler, M.J. 1987. Effects of variation in predation and prey recruitment on prey community structure: field experiments with bluegill sunfish and macroinvertebrate prey in a north Florida lake. Ecological Society of America, Columbus, OH
- Butler, M.J., W.F. Herrnkind, and R.A. Tankersley. 1986. Habitat selection, predation, and emigration in juvenile spiny lobsters. Marine Benthic Ecology Meeting, Boston, MA
- Butler, M.J. 1986. Effects of temporal and spatial variation in fish predation and prey recruitment on freshwater littoral zone communities. Ecological Society of America - International Congress of Ecology Meeting, Syracuse, NY
- Butler, M.J. and W.F. Herrnkind. 1985. Habitat selection and predation in juvenile spiny lobsters: the importance of the red algae *Laurencia*. Ecological Society of America, Minneapolis, MN
- Butler, M.J. and R.A. Stein. 1984. Mechanisms controlling crayfish replacements and rates of replacement in Ohio streams. Ohio Fish and Wildlife Conference, Columbus, OH

- Butler, M.J. 1984. Character displacement in crayfish: a case of rapid, non-competitive evolution? Ecological Society of America, Ft. Collins, CO
- Butler, M.J. 1982. Interspecific displacement of crayfish: an analysis of the competitive mechanism. Ecological Society of America, State College, PA
- Butler, M.J. and R.A. Stein. 1982. Competition among crayfish: mechanisms and distribution effects. American Society of Zoologists Meeting, Louisville, KY
- Butler, M.J. 1980. A study of the chemical and physical parameters of a temperate hardwater spring in John Bryan State Park, Greene County, Ohio. Ohio Academy of Science, Toledo, OH
- Butler, M.J. and H.H. Hobbs. 1980. Community structure, drift, and upstream movement in a temperate hardwater spring. American Society of Limnology and Oceanography, Knoxville, TN

Co-authored Presentations:

- Miller, J. and **Mark Butler**. 2013. "Evaluating potential den competition between Caribbean spiny lobster and Lionfish", 42nd Benthic Ecology Meeting, Savannah, GA.
- Gutzler, B. and **Mark Butler**. 2013 "Casitas as an ecological trap for the spiny lobster *Panulirus argus*? Preliminary results from the Florida Keys, FL (USA)", 42nd Benthic Ecology Meeting, Savannah, GA.
- Butler, J. and **Mark Butler**. 2013. "Soundscapes differ among seascapes in Florida Bay, Florida (USA)", 42nd Benthic Ecology Meeting, Savannah, GA.
- Baeza, J. A., D. Behringer, J. Moss, J. Shields, **M. Butler**. 2012. Exploring exogenous and endogenous factors driving spatio-temporal variability of PaV1 viral infections in Caribbean spiny lobster. Benthic Ecology Meeting, Norfolk, VA.
- Behringer, D., J. Moss, J.D. Shields, **M. J. Butler IV**. 2012. Disease through the ages (or stages): the effects of PaV1 infection on Caribbean spiny lobsters through ontogeny. Benthic Ecology Meeting, Norfolk, VA.
- Butler, J. and **M. Butler**. 2012. The potential role of sound on fish and invertebrate settlement in hard-bottom communities of the Florida Keys, Florida (USA). Benthic Ecology Meeting, Norfolk, VA.
- Dolan, T.W., **M.J. Butler IV**, J.D. 2012. The influence of fishing pressure on Hematodinium outbreaks in the American blue crab, a simulation study. Benthic Ecology Meeting, Norfolk, VA
- Kintzing M. and **M.J. Butler IV**. 2012. Frenemies? *Diadema antillarum* and the Ideal Free Distribution theory. Benthic Ecology Meeting, Norfolk, VA
- Moss, J., **M.J. Butler IV**, D.C. Behringer, J.D. Shields. 2012. Prevalence and genetic diversity of *Panulirus argus* virus I throughout the Caribbean Sea. Benthic Ecology Meeting, Norfolk, VA
- Shields J.D., C. Li, K.S. Reece, H. Wang, T.W. Dolan, **M.J. Butler**. 2012. Ecological determinants of Hematodinium epidemics in the American blue crab, *Callinectes sapidus*. American Society of Parasitologists, Richmond, VA.
- Donald C. Behringer, **Mark J. Butler**, Thomas W. Dolan, Jeffrey D. Shields, and Jessica Moss. 2011. Behavior Influences Viral Disease Dynamics in the Caribbean Spiny Lobster. Society for Invertebrate Pathology, Halifax, Nova Scotia.
- Kough, A.S., C.B. Paris, and **M. J. Butler IV**. 2011. The role of local retention versus subsidies in the connectivity of Caribbean Spiny Lobster populations. American Fisheries Society, Seattle, WA.

- Robertson, D.N. and **M.J. Butler IV**. 2011. Female Choice and Sperm Limitation in the Spotted Spiny Lobster, *Panulirus guttatus*. 9th International Conference and Workshop on Lobsters, Bergen, Norway.
- Moss, J., D.C. Behringer, **M.J. Butler IV**, and J.D. Shields. 2011. Insight into the molecular diversity of the Caribbean spiny lobster virus, *Panulirus argus* virus 1. 9th International Conference and Workshop on Lobsters, Bergen, Norway.
- Kough, A., C. Paris, and **M.J. Butler IV**. 2011. Larval Connectivity in Caribbean Spiny Lobster Populations and its Role in the Spread of the PaV1 virus. 9th International Conference and Workshop on Lobsters, Bergen, Norway.
- Dolan, T.W., **M. J. Butler IV**, and J.D. Shields. 2011. Effects of Behavior and Habitat Structure on Disease Dynamics in Caribbean Spiny Lobster. 9th International Conference and Workshop on Lobsters, Bergen, Norway.
- Behringer, D.C. Jr., **M.J. Butler IV**, and J. D. Shields. 2011. Ecological Effects of *Panulirus argus* Virus 1 (PaV1) on Caribbean Spiny Lobster Condition, Behavior, and Survival. 9th International Conference and Workshop on Lobsters, Bergen, Norway.
- Behringer, D.C. Jr., J.A. Moss, J. D. Shields and **M.J. Butler IV**. 2011. PaV1 infection in the Florida Spiny Lobster Fishery and its Effects on Trap Function and Disease Transmission. 9th International Conference and Workshop on Lobsters, Bergen, Norway.
- Dolan, T., **M.J. Butler**, H. Wang, and J. Shields. 2011. Understanding Hematodinium Epizootics in the American Blue Crab. NSF Ecology of Infectious Disease Workshop, Madison, WI. Using Coupled Physical Oceanographic and Agent-Based Biological Models
- Moss, J., D.C. Behringer, **M.J. Butler** and J.D. Shields. 2011. Insight into the molecular diversity of the Caribbean spiny lobster virus, *Panulirus argus* virus 1. National Shellfisheries Association, Prince Edward Island, Canada.
- Butler, J., **Butler, M.**, D. Behringer, J. Anderson, A. Baeza, J. Butler, M. Dickson, A. Spadero, C. Stall, N. Truelove, E. Yudelman, and T. Ziegler. 2011. Sponge Community Restoration Research in the Everglades and the Florida Keys National Marine Sanctuary. Marine Benthic Ecology Meeting, Mobile, AL.
- Tiggelaar, J. and **M. Butler**. 2011. Effects of the parasitic dinoflagellate on blue crab movement and mortality. Marine Benthic Ecology Meeting, Mobile, AL.
- Anderson, J., A. J. Spadaro, A. Baeza, D. C. Behringer, and **M. J. Butler IV**. 2011. Ontogenetic shifts in allocation to defensive structures in the Caribbean spiny lobster, *Panulirus argus*. Marine Benthic Ecology Meeting, Mobile, AL.
- Spadaro, A. J., J. Anderson, A. Baeza, D.C. Behringer, and **M. J. Butler IV**. 2011. Allometric growth and size at first maturity of the Caribbean King Crab, *Mithrax spinosissimus*, in the middle Florida Keys. Marine Benthic Ecology Meeting, Mobile, AL.
- Behringer, D.C., J.A. Moss, J.D. Shields, and **M.J. Butler IV**. 2011. PaV1 infection in the Florida spiny lobster fishery and its effect on trap function and disease transmission. Marine Benthic Ecology Meeting, Mobile, AL.
- Kintzing, M. and **M.J. Butler**. 2010. The tale of the spotted spiny lobster: innocuous crustacean by day, bane of coral reef recovery by night. Florida Keys Ecosystem Conference, Duck Key, FL.
- Behringer, D.C., J.A. Moss, J.D. Shields, and **M.J. Butler IV**. 2010. PaV1 infection in the Florida Spiny Lobster Fishery and its Effects on Trap Function and Disease Transmission. Gulf and Caribbean Fishery Institute Meeting, San Juan, Puerto Rico.
- Kintzing, M. and **M.J. Butler**. 2010. The tale of the spotted spiny lobster: innocuous crustacean by day, bane of coral reef recovery by night. Benthic Ecology Meeting, Galveston, TX.

- Behringer, D.C., **M.J. Butler**, and J. Shields. 2009. A Review of the Lethal Spiny Lobster Virus PaV1 – Ten Years After Its Discovery. Gulf and Caribbean Fisheries Institute, Cumanas, Venezuela.
- Shields, J.D., K.S. Reece, H. Wang, T.L. Miller, **M.J. Butler**. 2009. EID: Ecological Aspects of Hematodinium infections in the American blue crab. Ecology of Infectious Diseases Annual PI Meeting, Park City, Utah, April.
- Behringer, D.C., **M.J. Butler IV**, and J.D. Shields. 2009. Epidemiological Status of the Lethal Virus PaV1 and its Effect on Caribbean Spiny Lobster Condition, Olfaction, and Predation Risk. National Shellfish Association, Galveston, TX.
- Shields, J.D., **M.J. Butler**, and T.W. Dolan. 2008. A Conceptual Model For Outbreaks Of Hematodinium In Populations Of The American Blue Crab. Eastern Fish Health Workshop, Atlantic Beach, NC. April
- Shields, J.D., **M.J. Butler**, and T.W. Dolan. 2008. A Conceptual Model For Outbreaks Of Hematodinium In Populations Of The American Blue Crab. Crustacean Society Annual Meeting, Galveston, Tx, June.
- Shields, J.D., K.S. Reece, H. Wang and **M.J. Butler**. 2008. Ecological determinants of Hematodinium epidemics in the American blue crab: the effect of fishing pressure on a pathogenic disease. Ecology of Infectious Diseases Annual Meeting, Phoenix, May.
- Shields, J.D., K.S. Reece, H. Wang, and **M.J. Butler**. 2007. EID: Ecological determinants in outbreaks of Hematodinium infections in the American blue crab. Ecology of Infectious Diseases Annual Meeting, Albuquerque, NM, December.
- Michael J. Durako, M. O. Hall, **M. J. Butler**, and D. C. Behringer. 2008. Benthic Habitats in Florida Bay. Florida Bay and Everglades Ecosystem Conference, Naples, FL.
- Weisz, J.B. and M. J. Butler IV. 2008. Environmental effects on back-reef sponge distribution in the Florida Keys (USA). International Coral Reef Symposium, Ft. Lauderdale, FL.
- Kintzing, M. and M.J. Butler IV. 2008. The ecological significance of the spotted spiny lobster and the long spined sea urchin on patch reef communities in the Florida Keys. International Coral Reef Symposium, Ft. Lauderdale, FL.
- Behringer, D.C. and M. J. Butler IV. 2008. The Effects of Fishing and Harmful Algal Blooms on Sponge Ecology in the Florida Keys USA. International Coral Reef Symposium. Ft. Lauderdale, FL.
- Mojica, A. and M. J. Butler IV. 2008. Effect of the herbivorous West Indian Spider Crab (*Mithrax sppinosissimus*) on patch reef algal communities in the Florida Keys (USA). International Coral Reef Symposium, Ft. Lauderdale, FL.
- Goldstein, J., H. Matsuda, **M.J. Butler**, R. Cowen, C. Paris, and T. Takenouchi. 2008. Still elusive but now inclusive: development of larval Caribbean spiny lobster (*Panulirus argus*) in culture & implications for modeling marine connectivity. Benthic Ecology Meeting, Providence, RI
- Kintzing, M. D. and **M.J. Butler**. 2008. Impacts of the spotted spiny lobster *Panulirus guttatus* on the coral reef communities of the Florida Keys. Benthic Ecology Meeting, Providence, RI
- Mojica, A.M. and **M.J. Butler**. 2008. Effect of the herbivorous West Indian Spider Crab on patch reef algal communities in the Florida Keys (USA), Benthic Ecology Meeting, Providence, RI
- Behringer, D.C. and **M.J. Butler**. 2008. Chemical detection of disease in Caribbean spiny lobster and the effect of disease avoidance behavior in a shelter limited system. Benthic Ecology Meeting, Providence, RI
- Shields, J.D., D.C. Behringer, and **Mark Butler**. 2007. Epidemiological studies of *Panulirus argus* Virus I (PaV1) in the Caribbean Spiny Lobster. Crustacean Society Meeting, Coquimbo, Chile, 2007

- Shields, J.D., D.C. Behringer, and **Mark Butler**. 2007. Epidemiological studies of Panulirus argus Virus I (PaV1) in the Caribbean Spiny Lobster. 8th International Lobster Conference, Prince Edward Island, Canada
- Li, C., J.D. Shields, R.E. Ratzlaff, **M.J. Butler**. 2007 Histopathology and hemolymph chemistry of PaV1 infections in the Caribbean spiny lobster. 8th International Lobster Conference, Charlottetown, PEI, Canada, September.
- Garcia-Sanz, Sara, Alex Hearn, Eduardo Espinoza, and **Mark Butler**. 2007. Recruitment of red (*Panulirus penicillatus*) and green (*Panulirus gracilis*) spiny lobsters in the Galápagos Islands. 8th International Lobster Conference, Prince Edward Island, Canada
- Behringer, Donald, **Mark Butler**, and William Herrnkind. 2007. Is seagrass an important nursery habitat for Caribbean spiny lobsters? 8th International Lobster Conference, Prince Edward Island, Canada
- Behringer, Donald, **Mark Butler**, and Jeffery Shields. 2007. The function of behavior in reducing PaV1 infection risk among Caribbean spiny lobsters and potential modes of transmission. 8th International Lobster Conference, Prince Edward Island, Canada
- Kintzing, Meredith and **Mark Butler**. 2007. Investigating the role of the spotted spiny lobster (*Panulirus guttatus*) on the coral reef communities of the Florida Keys (USA). 8th International Lobster Conference, Prince Edward Island, Canada
- Lear, Jennifer, **Mark Butler**, and Jason Schratweiser. 2007. The Impact of Grouper and Octopus Predators on Population Structure, Shelter Use, and Behavior of Juvenile Caribbean Spiny Lobster. 8th International Lobster Conference, Prince Edward Island, Canada
- Dolan, Thomas and **Mark Butler**. 2007. Modeling the epizootiology of a virulent lobster disease when behavior and perhaps fishery practices matter. 8th International Lobster Conference, Prince Edward Island, Canada
- Goldstein, Jason, Hirokazu Matsuda, and **Mark Butler**. 2007. Behavior of larval and postlarval Caribbean spiny lobster and implications for connectivity. 8th International Lobster Conference, Prince Edward Island, Canada
- Behringer, Don, **Mark Butler**, Jeff Shields. 2007. Sex, hot spots, and exposure: advances in understanding the ecology and epidemiology of the lethal Caribbean spiny lobster virus PaV1. Benthic Ecology Meeting, Atlanta, GA.
- Lear, Jennifer, Christopher Binkley, and **Mark Butler**. 2007. Diversity / stability patterns of near shore hard-bottom communities in the Florida Keys. Benthic Ecology Meeting, Atlanta, GA.
- Herrnkind, William F, **M. J. Butler IV**, and John H. Hunt. 2006. From Life History Research To A Nursery-wide Test of Recruitment Limitation of Spiny Lobster in the Florida Keys. Mote Fisheries Ecology Symposium, Sarasota, FL.
- Cowen, Robert, **M. J. Butler IV**, and C. Paris. 2006. Modeling the dispersal of Caribbean Spiny Lobster larvae. Connectivity of Mesoamerican Reefs Symposium, Miami, Florida.
- Goldstein, J., H. Matsuda, T. Takenouchi, **M. J. Butler IV**, R. Cowen, and C. Paris. 2006. Behavior of larval and postlarval Caribbean Spiny Lobster with implications for pan-Caribbean Connectivity. 7th Larval Biology Meeting, Coos Bay, Oregon.
- Behringer, D.C., **M.J. Butler IV** and Jeffery Shields. 2006. The pathogenic virus PaV1 in Caribbean spiny lobster: transmission, alternative hosts, and ecological impacts. Marine Benthic Ecology Meeting, Quebec, CANADA
- Kauffman, Anne Kathryn, **M. J. Butler IV**, and Andrew S. Gordon. 2005. Sponge feeding selectivity across seasons and species in Florida Bay. Florida Bay Science Conference, Duck Key, FL.

- Shields, J.D., R. Ratzlaff, D. Behringer, and **M.J. Butler**. 2005. Pathology of PaV1 virus in Caribbean spiny lobster, *Panulirus argus*. International Crustacean Congress, Glasgow, Scotland.
- Behringer, D.C., **M.J. Butler**, and J.D. Shields. 2005. A Pathogenic Viral Disease in Spiny Lobster: Disease Dynamics, Transmission, and Ecological Relevancy. Benthic Ecology Meeting, Williamsburg, VA.
- Kauffman, A.K.M, **M. J. Butler IV**, A.S. Gordon. 2005. Florida Bay through the osculum: sponge filtration efficiency and selectivity. Benthic Ecology Meeting, Williamsburg, VA.
- Behringer, D.C., **M.J. Butler IV**, J. D. Shields, and R. Ratzlaff. 2004. A Pathogenic Viral Disease in Spiny Lobster: Disease Dynamics, Transmission, and Ecological Relevancy. Benthic Ecology Meeting, Mobile, AL
- Lear, J. A., **M. J. Butler IV** and J. Schratwieser. 2004. The impacts of grouper and octopus predators on population structure, shelter use, and behavior of juvenile Caribbean spiny lobster. Benthic Ecology Meeting, Mobile, AL
- Dolan, T.W., III. and **M. J. Butler IV**. 2004. Humans as vectors in the epizootiology of a highly virulent disease of Caribbean spiny lobster, *Panulirus argus*. Benthic Ecology Meeting, Mobile, AL
- Goldstein, J. and **M. Butler**. 2004. Postlarval detection of coastal chemical cues and their effect on metamorphosis in Caribbean spiny lobster, *Panulirus argus*. 7th International Lobster Conference and Workshop, Hobart, Tasmania
- Herrnkind, W., **M. Butler**, and J. Hunt. 2004. Habitat remediation and enhancement: providing shelter for spiny lobster at the critical life stage. 7th International Lobster Conference and Workshop, Hobart, Tasmania
- Castaneda, V., E. Serveire-Zaragoza, **M. Butler**, and S. Hernandez-Vazquez. 2004. Feeding ecology of juvenile *Panulirus interruptus* off the Pacific coast of Baja California Sur, Mexico. 7th International Lobster Conference and Workshop, Hobart, Tasmania
- Lear, J. and **M. Butler**. 2004. Strong interactions between juvenile Caribbean spiny lobster, *Panulirus argus*, and Caribbean reef octopus, *Octopus briarius*. 7th International Lobster Conference and Workshop, Hobart, Tasmania
- Shields, J., D. Behringer, and **M. Butler**. 2004. Pathology of herpes-like viral infections in *Panulirus argus*. 7th International Lobster Conference and Workshop, Hobart, Tasmania
- Linares A., **M. J. Butler**, and A. S. Gordon. 2004. Impact of sponge filtration on water column bacterial and viral abundance. Biomedical Research Conference for Minority Students, Dallas Texas.
- Behringer, D.C., **M.J. Butler IV**, J.D. Shields, and R. Ratzlaff. 2004. Behavioral alterations in response to a viral pathogen in the Caribbean spiny lobster. 7th International Lobster Conference and Workshop, Hobart, Tasmania.
- Behringer, D.C. and **M.J. Butler IV**. 2004. The impact of artificially enhanced density on juvenile *Panulirus argus* in Florida (USA.) 7th International Lobster Conference and Workshop, Hobart, Tasmania
- Behringer, D.C., **M.J. Butler IV**, and J.D. Shields. 2003. The Pathological and Ecological Effects of a Herpes-like virus in the Caribbean Spiny Lobster, *Panulirus argus*, from Florida. Everglades and Florida Bay Joint Science Meeting, Tarpon Springs, FL
- Behringer Jr., D.C., **M.J. Butler IV**, J.D. Shields and R. Ratzlaff. 2003. A lethal viral disease infecting juvenile Caribbean spiny lobster in the Florida Keys. Florida Keys Lobster Workshop, Key West, FL.

- Lear, J.A. and **M. J. Butler IV**. 2003. Interactions between juvenile Caribbean spiny lobster and Caribbean reef octopuses in the Florida Keys. Benthic Ecology Meeting, Mystic, CT.
- Herrnkind, W.F. and **M. J. Butler IV**. 2003. The Biscayne Bay (FL) spiny lobster nursery habitat ten years after Hurricane Andrew. Benthic Ecology Meeting, Mystic, CT.
- Goldstein, J.S. and **M. J. Butler IV**. 2003. Orientation, selection, and metamorphosis of Caribbean spiny lobster pueruli in response to odor plumes. Benthic Ecology Meeting, Mystic, CT.
- Behringer Jr., D.C., **M.J. Butler IV**, and J.D. Shields. 2002. Ecological ramifications of disease in the Caribbean spiny lobster, *Panulirus argus*. National Shellfisheries Association 94th Annual Meeting, Mystic, CT.
- Behringer, D. C. Jr., **M. J. Butler IV**, and J. D. Shields. 2002. Quarantined! Ecological ramifications of disease in the Caribbean spiny lobster, *Panulirus argus*. 31st Annual Benthic Ecology Meeting, Orlando, FL.
- Donahue, Scott and **M. J. Butler IV**. 2002. Sponge dynamics in nearshore hard-bottom communities of the Florida Keys. 31st Annual Benthic Ecology Meeting, Orlando, FL.
- Behringer, D. C. Jr., **M. J. Butler IV**, and Jeffery D. Shields. 2001. Ecological ramifications of disease in the Caribbean spiny lobster, *Panulirus argus*. European Decapod Fisheries Assessment and Management Meeting, La Coruna, Spain.
- Shields, J.D., D. Behringer, and **M. Butler**. 2001. Preliminary report on a pathogenic virus from the spiny lobster, *Panulirus argus*. 26th Annual Eastern Fish Health Workshop
- Behringer, D. C. Jr., **M. J. Butler IV**, and Jeffery D. Shields. 2001. Ecological ramifications of disease in the Caribbean spiny lobster, *Panulirus argus*. 30th Annual Benthic Ecology Meeting, Durham, NH.
- MacDiarmid, A.B., **M. J. Butler IV**, and Rodney D. Bertelsen. 2000. Mate choice and competition in spiny lobsters. 6th International Conference and Workshop on Lobster Biology & Management, Key West, FL
- MacDiarmid, A.B., T. Kendrick, J.S. Heisig, and **M. J. Butler IV**. 2000. Effects of female size on egg and larval size and quality in the spiny lobsters, *Jasus edwardsii* and *Panulirus argus*. 6th International Conference and Workshop on Lobster Biology & Management, Key West, FL
- Berger, Dianne K. and **M. J. Butler IV**. 2000. Do octopuses influence den selection by juvenile Caribbean spiny lobster? 6th International Conference and Workshop on Lobster Biology & Management, Key West, FL
- Robertson, Denice and **M. J. Butler IV**. 2000. The target-area hypothesis and the Spotted spiny lobster, *Panulirus guttatus*. 6th International Conference and Workshop on Lobster Biology & Management, Key West, FL
- Dolan, Thomas III and **M. J. Butler IV**. 2000. Modeling ontological changes in the social behavior of juvenile Caribbean spiny lobster, *Panulirus argus*. 6th International Conference and Workshop on Lobster Biology & Management, Key West, FL
- Schratwieser, Jason and **M. J. Butler IV**. 2000. The impact of resident and transient predators on the population dynamics of juvenile Caribbean spiny lobster. 6th International Conference and Workshop on Lobster Biology & Management, Key West, FL
- Behringer, Donald C. Jr and **M. J. Butler, IV**. 2000. The Ecological Impacts of Density and Disease on Wild Juvenile Caribbean Spiny Lobster Populations: A Work in Progress. 6th International Conference and Workshop on Lobster Biology & Management, Key West, FL
- Heisig, J.S. and **M. J. Butler IV**. 2000. Male reproductive dynamics in the Caribbean spiny lobster, *Panulirus argus*. 6th International Conference and Workshop on Lobster Biology & Management, Key West, FL

- Behringer, D.C. Jr., **M.J. Butler IV**, and S.C. Wainright. 1999. Trophic structure in a tropical hard-bottom community: a stable isotope analysis. Florida Bay Conference, Key Largo, FL.
- Behringer, D.C. Jr., **M.J. Butler IV**, and S.C. Wainright. 1999. Trophic structure in a tropical hard-bottom community: a stable isotope analysis. Marine Benthic Ecology Meeting, Baton Rouge, LA.
- Mauger, J., A.B. MacDiarmid, and **M. J. Butler**. 1998. Sperm discharge and regeneration in male spiny lobsters, *Jasus edwardsii*. New Zealand Marine Sciences Meeting, Auckland, NZ.
- Robertson, D.N. and **M.J. Butler IV**. 1998. The effect of isolation on the life history dynamics of the spotted spiny lobster, *Panulirus guttatus*. Marine Benthic Ecology Meeting, Melbourne, FL.
- Hansen, D. K. and **M. J. Butler IV**. 1998. Do octopuses influence den selection by juvenile Caribbean spiny lobster? Marine Benthic Ecology Meeting, Melbourne, FL.
- Sharp, W.C., W.A. Lellis, M. Pardee-Woodring, **M.J. Butler**, W.F. Herrnkind, J.H. Hunt, and T.R. Matthews. The use of coded microwire tags for mark-recapture studies of juvenile Caribbean spiny lobster, *Panulirus argus*. Marine Benthic Ecology Meeting, Melbourne, FL.
- Ramsdell, R. and **M.J. Butler IV**. 1996. The effect of structure on emigration and mortality of Caribbean spiny lobsters, Marine Benthic Ecology Meeting, Columbia, SC.
- Acosta, C.A. and **M.J. Butler IV**. 1996. Use of mangrove habitat by juvenile Caribbean spiny lobster, Marine Benthic Ecology Meeting, Columbia, SC.
- MacDiarmid, A.B. and **M. J. Butler**. 1996. Effects of mate size on reproduction in spiny lobsters, Marine Benthic Ecology Meeting, Columbia, SC.
- Robertson, D. and **M. J. Butler**. 1996. Evaluation of potential indices of nutritional condition of the Caribbean spiny lobster, Marine Benthic Ecology Meeting, Columbia, SC.
- Acosta, C. and **M.J. Butler IV**. 1995. Effect of wind stress on recruitment of Caribbean spiny lobster postlarvae. Larval Biology Meeting, Ft. Pierce, FL.
- Herrnkind, W.F., **M.J. Butler IV**, and J.H. Hunt. 1995. Artificial shelters for early juvenile spiny lobsters, *Panulirus argus*: underlying ecological processes and population effects. 1995 American Fisheries Society Meeting
- MacDiarmid, A., R. Stewart, and **M.J. Butler IV**. 1995. Effects of mate size on reproduction in the red rock lobster, *Jasus edwardsii*. New Zealand Marine Sciences Conference, Wellington, New Zealand.
- Herrnkind, W.F., **M.J. Butler**, and J.H. Hunt. 1995. Artificial dens for early juvenile spiny lobsters: ecological processes, population effects, and modeling. American Fisheries Society, Orlando, FL.
- Hunt, J. H., **M. J. Butler**, and W.F. Herrnkind. 1995. Cascading disturbances in Florida Bay. American Fisheries Society, Orlando, FL.
- Herrnkind, W.F. and **M.J. Butler**. 1995. The Future of juvenile spiny lobster in Florida Bay: evidence from field surveys and modeling. Florida Bay Science Conference, Gainesville, FL.
- Herrnkind, W.F., **M.J. Butler**, and J.H. Hunt. 1994. Impact of mass sponge mortality on Florida Bay spiny lobsters: there goes the neighborhood. Marine Benthic Ecology Meeting, Msytic, CT.
- Field, J.F. and **M.J. Butler IV**. 1993. The influence of temperature, salinity, and postlarval transport on the distribution of juvenile spiny lobsters in Florida Bay. Marine Benthic Ecology Meeting, Mobile, AL.
- Herrnkind, W.F., **M.J. Butler IV**, and J.H. Hunt. 1993. Impact at ground zero: Biscayne Bay spiny lobsters vs. Hurricane Andrew. Marine Benthic Ecology Meeting, Mobile, AL.
- Field, J.F. and **M.J. Butler IV**. 1992. The influence of temperature, salinity, and

- larval transport on the distribution of juvenile spiny lobsters, *Panulirus argus*, in Florida Bay. Florida Keys Regional Ecosystem Symposium, Miami, FL.
- Forcucci, D.F., **M.J. Butler IV**, and J.H. Hunt. 1992. Growth and population dynamics of juvenile spiny lobsters, *Panulirus argus*, in Florida Bay. Florida Keys Regional Ecosystem Symposium, Miami, FL.
- Herrnkind, W.F., **M.J. Butler**, and J.H. Hunt. 1992. Testing spiny lobster recruitment bottlenecks: a progress report. Marine Benthic Ecology Meeting, Newport, RI
- Swanson, R.J., M.C. Mahony, **M.J. Butler**, A.A. Acosta, and S. Oehninger. 1992. Semen analysis comparison of fresh versus test yolk buffer-extended (TYB) samples. American Society of Andrology, Bethesda, MD.
- Herrnkind, W.F., **M.J. Butler IV**, and D. Forcucci. 1990. The duration of the inshore postlarval stage of the spiny lobster *Panulirus argus*: implications to recruitment. Gulf and Caribbean Fishery Institute, Miami, FL
- Herrnkind, W.F. and **M.J. Butler**. 1990. Spiny lobster recruitment: settlement patterns and support capacity. Marine Benthic Ecology Meeting, Mobile, AL.
- Cavanaugh, V.J., R.E. Ratzlaff, and **M.J. Butler**. 1990. Evidence of a neurogenic component during IgE-induced inflammation. ASBMB/AAI Annual Meeting, New Orleans, LA.
- Herrnkind, W.F., **M.J. Butler**, and K.N. Smith. 1989. Spiny lobster postlarval recruits: where do they go and what happens to them? Marine Benthic Ecology Meeting, Solomons, MD.
- Herrnkind, W.F., **M.J. Butler**, and K.N. Smith. 1989. Predation on juvenile spiny lobsters: who's been eating our lunch? American Fisheries Society Workshop, Live Oak, FL.
- Herrnkind, W.F. and **M.J. Butler**. 1987. Spiny lobster recruitment: effects of siltation, food, and predators. Marine Benthic Ecology Meeting, Raleigh, NC
- Herrnkind, W.F. and **M.J. Butler**. 1987. Artificial structures for spiny lobster recruitment: identifying the problems to overcome. International Artificial Reef Conference, Miami, FL.
- Herrnkind, W.F., **M.J. Butler**, and R.A. Tankersley. 1986. Habitat selection, predation, and emigration in juvenile spiny lobsters. Marine Benthic Ecology Meeting, Boston, MA.
- Tankersley, R.A., W.F. Herrnkind, and **M.J. Butler**. 1985. Factors influencing habitat selection of young juvenile spiny lobsters, *Panulirus argus*. American Society of Zoologists/Crustacean Society, Baltimore, MD.
- Cotner, J. and **M.J. Butler**. 1981. Community structure, drift, and upstream migration of the crustaceans *Synurella dentata* Hubricht and *Lirceus fontinalis* Raf. in a temperate spring. Ohio Academy of Science, Kent, OH.

Invited Presentations at Universities or Research Institutions:

- 2012 University of Auckland
University of Victoria
University of Otago
East Carolina University
Old Dominion University
- 2011 University of Manchester
- 2010 North Carolina State
Hillsdale College
Virginia Institute of Marine Science Eastern Shore Laboratory

- Belize Fisheries Department
 2009 Virginia Institute of Marine Science, Virginia
 2008 University of Florida, Florida
 University of Miami, Florida
 2007 Goshen College, Indiana
 Virginia Institute of Marine Science, Virginia
 Old Dominion University, Virginia
 2006 Colby College, Maine
 Old Dominion University, Virginia
 2005 Universidad del Valle de Guatemala, Guatemala
 FUNDARY Marine Park, Guatemala
 Bay Islands Conservation Association, Utila, Honduras
 Department of Biology, Wittenberg University
 2004 Department of Biology, Tennessee Tech University
 2001 Department of Oceanography, University of Barcelona
 Centro de Investigaciones Biologicas del Noroeste, Baha Mexico
 2000 Department of Fisheries, Virginia Institute of Marine Science
 1999 Department of Zoology, Ohio State University
 South Australian Research & Development Institute, Adelaide, SA
 Center for Coastal Physical Oceanography, Old Dominion University
 1998 Department of Fisheries & Aquatic Sciences, University of Florida
 Department of Biological Science, Florida State University
 1997 Department of Biology, Colby College, Waterville, ME
 Department of Biology, University of Maryland-Baltimore
 1996 Department of Zoology, University of Rhode Island
 1995 National Institute of Water and Atmospheric Research, Wellington, New Zealand
 1994 Department of Oceanography, University of Southampton, England
 Department of Maritime Studies, University of Haifa, Israel
 1993 Department of Oceanography, Old Dominion University
 1992 Department of Biology, College of William and Mary
 Department of Biological Sciences, Old Dominion University
 1991 Department of Oceanography, Old Dominion University
 Department of Biological Sciences, Old Dominion University
 Agency for International Development, Presidents Training Initiative for the
 Island Caribbean
 1990 Blue Crab Recruitment Workshop, Dauphin Island, AL
 1989 Virginia Institute of Marine Sciences, Gloucester Pt, VA
 1988 Los Angeles County Museum of Natural History, Los Angeles, CA
 Department of Zoology, Miami University, Oxford, OH
 Department of Biological Sciences, Florida Atlantic University, Boca Raton, FL
 Department of Fisheries and Wildlife, Utah State University, Logan, UT
 1983 Department of Biology, Wittenberg University, Springfield, OH

GRANTS AND CONTRACTS

Current Grants and Contracts:

- Butler, M.J.** 2012-2014. Restoration of Shallow Sponge Communities in the Florida Keys: Phase II. NOAA-The Nature Conservancy Community Restoration Grant Program
- Butler, M.J.** 2013. "Assessment of The Effect of "Casitas" on Lobster Biology and Fishery Sustainability in The Bahamas - Phase II", Government of the Bahamas
- Behringer, D.C. Jr. and **M. J. Butler IV.** 2011-2013. "Determining the Ecological and Epidemiological Consequences of Casitas in the Florida Spiny Lobster Fishery", Florida Sea Grant

Completed Grants and Contracts:

- Butler, M.J. IV,** D. Behringer, R. Cowen, C. Paris, and J. Shields. "Connectivity of Disease in Marine Ecosystems: Multi-scale Dynamics of a Viral Disease Infecting Caribbean Spiny Lobster", 2009-2012, National Science Foundation
- Shields, J.D., **M.J. Butler IV,** K. Reese, and H. Wang. 2007 – 2012. Ecological determinants of *Hematodinium* epidemics in the American Blue Crab. National Science Foundation.
- Butler, M.J.** 2012. "Assessment of The Effect of "Casitas" on Lobster Biology and Fishery Sustainability in The Bahamas - Phase II", Government of the Bahamas
- Johnson, S. , **M. Butler,** N. Gemmell, J. Jack, A. MacDiarimid, and R. Smith. 2011-2012. "Unnatural mating: the effect of large male-selective harvesting on mating dynamics and reproductive success in the spiny lobster, *Jasus edwardsii*", National Geographic Society
- Butler, M.J. IV.** "Assessment of PaV1 Virus Prevalence in Bahamian Lobster Fishery", 2010, World Wildlife Fund
- Behringer, D. and **M. J. Butler.** 2008 – 2010. "The possible effects of the commercial trap fishery on a lethal viral disease (PaV1) in spiny lobster", Florida Sea Grant
- Butler, M.J. IV.** 2009 - 2011. "A Proposal for Shallow Hard-bottom Sponge Community Restoration Research in the Everglades National Park", Everglades National Park
- Butler, M.J. IV** and D. Behringer. 2009-2011. "Restoration of shallow sponge communities in the Florida Keys: Phase I", NOAA-The Nature Conservancy Community Restoration Grant Program
- Butler, M.J. IV,** J. Shields, R. Ratzlaff, and R. Cooper. 2005 – 2008. Disease dynamics in degraded nurseries: a viral disease in spiny lobster. National Science Foundation.
- Butler, M.J. IV** and R. Cowen. 2005-2008. "Connectivity of lobster populations in Mesoamerica". Global Environment Fund, World Bank.
- Behringer, D.C., T. Frazer, R. Swett, R. Watkins, and **M.J. Butler.** 2007-2009. "Determining Coral Reef Impacts Associated with Boat Anchoring and User Activity", Florida Fish & Wildlife Conservation Commission, Wildlife Legacy Program.
- Behringer, D.C. and **M.J. Butler IV.** 2008-2009. Investigating the role of the spotted spiny lobster (*Panulirus guttatus*) in the recovery of the long-spined sea urchin (*Diadema antillarum*) on the coral reefs of the Florida Keys", Save Our Reefs Program.
- Butler, M.J.** 2006-2008. "Everglades restoration impacts on lobster: simulation modeling". South Florida Water Management District.
- Butler, M.J.** "Population replenishment and connectivity of reef fishes and lobster". University of Miami.

- Matthews, T., J. Hunt, and **Butler, M.J. IV**. 2005-2007. Hard-bottom monitoring program for the Florida Keys. Florida Fish & Wildlife Conservation Commission.
- Butler, M. J. IV** and A. Gordon. 2004 - 2006. "Hard-bottom dynamics in the Florida Keys: monitoring & targeted research", NOAA Coastal Ocean Program
- Sale, P., E. Arias, **M. Butler**, B. Danilowicz, K. Lindeman, R. Steneck, and P. Usseglio. 2005-2006. Monitoring recruitment in protected areas in Mesoamerica. National Fish & Wildlife Foundation, Coral Reef Conservation Fund
- Butler, M.J. IV**, J. Sheilds, R. Ratzlaff. 2002 – 2004. "The behavioral and ecological effects of viral disease in Caribbean Spiny Lobster", National Science Foundation
- Butler, M.J.** 2004. "Metadata analysis of lobster recruitment in Florida". Florida Fish and Wildlife Conservation Commission
- Butler, M.J. IV**. 2001 – 2003. "Regional Assessment of Sponge Dynamics & Sponge Fishery Impacts", NOAA Coastal Ocean Program
- Sheilds, J., **M.J. Butler IV**, and R. Ratzlaff. 2002 – 2003. "Epidemiological studies on spiny lobsters, *Panulirus argus*, infected with a pathogenic herpes-like virus", NOAA/National Marine Fisheries: Saltonstall-Kennedy Program
- Butler, M.J. IV**. 2000-2002. "Changing salinity effects on spiny lobster and hard bottom habitat", National Marine Fisheries Service
- Butler, M.J. IV**. 2001 – 2003. "Regional characterization of hard-bottom communities in the Florida Keys National Marine Sanctuary", Florida Fish & Wildlife Conservation Commission
- Butler, M.J. IV** and A.B. MacDiarmid. 1998 – 2001. "Marine reserves and spiny lobsters: effects on male size and reproductive success", National Science Foundation
- MacDiarmid, A.B. and **M.J. Butler**. 1998 – 2001. "Reproductive and recruitment limitations in exploited red rock lobsters", New Zealand Foundation for Research, Science & Technology
- Butler, M.J. IV** and W.F. Herrnkind. 2000. "Sixth International Lobster Conference and Workshop", Florida Sea Grant
- Butler, M.J. IV** and Susan Barco. 2000. "Teaching Virginia's boaters to respect protected marine species", Virginia Marine Science Museum
- Herrnkind, W.F. and **M.J. Butler IV**. 2000 – 2001. "Management of spiny lobsters in south Florida based on postlarval supply and juvenile dynamics", Florida Sea Grant
- Herrnkind, W.F. and **M.J. Butler IV**. 1998 - 2000. "Establishing the importance of postlarval supply to recruitment and management of spiny lobsters in the Florida Keys", Florida Sea Grant,
- Butler, M.J. IV**, J.H. Hunt, W.F. Herrnkind. 1998 - 2000. "Variation in postlarval supply and its consequences for recruitment of spiny lobsters in the Florida Keys", National Undersea Research Program
- Butler, M.J.** 1998. "Computer simulation modeling of lobster recruitment", Florida Department of Environmental Protection
- Herrnkind, W.F. and **M.J. Butler IV**. 1997. "Measuring and modeling the contribution of seagrass habitat to juvenile spiny lobster recruitment in Florida Bay", Florida Sea Grant
- Butler, M.J.** 1995-1997 "Reproduction and recruitment of spiny lobsters: a geographic and taxonomic comparison", National Science Foundation
- Herrnkind, W.F. and **M.J. Butler IV**. 1995-1997. "The future of Florida spiny lobster: developing a predictive model and putting artificial shelters to the acid test", Florida Sea Grant

- Butler, M. J.** 1996. "Lobster recruitment modeling", Florida Department of Environmental Protection
- Butler, M. J.** 1995. "Reproduction and recruitment of spiny lobsters", New Zealand National Institute for Water and Atmospheric Research Visiting Scholar Award
- Butler, M.J.** and W.F. Herrnkind. 1994-1995. "Nursery habitat structure and spiny lobster stocks: research services and modeling", Florida Department of Environmental Protection
- Butler, M.J.** and C. A. Acosta. 1994-1995. "Recruitment and habitat utilization of Caribbean spiny lobster, *Panulirus argus*, in Belize coastal waters", Smithsonian Museum of Natural History
- Butler, M.J.** and W.F. Herrnkind. 1993. "Processes regulating spiny lobster recruitment and the potential for stock enhancement II", Florida Sea Grant
- Butler, M.J.** and W.F. Herrnkind. 1993. "Macroalgal abundance and spiny lobster recruitment in south Florida", Florida Department of Environmental Protection
- Butler, M.J.** and C.A. Acosta. 1992. "Recruitment and habitat utilization of Caribbean spiny lobster, *Panulirus argus*, in Belize coastal waters ", Smithsonian Museum of Natural History
- Butler, M.J.** 1992. "Characterization of spiny lobster postlarval supply and juvenile nurseries in the upper Florida Keys", NOAA Undersea Research Program
- Butler, M.J.** and W.F. Herrnkind. 1992. "Emergency response funds: Impacts of Hurricane Andrew on epibenthic community structure in Biscayne Bay", Florida Sea Grant
- Butler, M.J.** and W.F. Herrnkind 1991-1993. "Limits to the recruitment of spiny lobster, *Panulirus argus*, in Florida: a field assessment of enhancement techniques", Florida Sea Grant
- Butler, M.J.** and C.A. Acosta. 1991. "Recruitment and habitat utilization of Caribbean spiny lobster, *Panulirus argus*, in Belize coastal waters ", Smithsonian Museum of Natural History
- Butler, M.J.** 1991. "Protecting Caribbean spiny lobster populations: what constitutes juvenile habitat and can it be enhanced? Old Dominion University Faculty Summer Research Award
- Butler, M.J.**, W.F. Herrnkind, and J.H. Hunt. 1991. "The impact of the Florida Keys reef tract on spiny lobster recruitment and population biology: contrasts between *Panulirus argus* and *P. guttatus*? NOAA Undersea Research Program
- Herrnkind, W.F. and **M.J. Butler**. 1990. "Life of a Key Lobster", Earthwatch Foundation
- Herrnkind, W.F. and **M.J. Butler**. 1989. "Life of a Key lobster", Earthwatch Foundation
- Reznick, D. and **M. J. Butler**. 1989-1991. "Life history evolution in Trinidadian guppies (*Poecilia reticulata*)", National Science Foundation
- Butler, M.J.** and W.F. Herrnkind 1988-1989. "Florida spiny lobster recruitment: project renewal", Florida Sea Grant
- Herrnkind, W.F. and **M. J. Butler**. 1987-1988. "Spiny lobster recruitment in Florida: settlement, mortality, and stock prediction", Florida Sea Grant
- Butler, M.** 1985-1987. "Community responses to variable predation: a field experiment with bluegill sunfish and freshwater benthic macroinvertebrates", National Science Foundation Doctoral Dissertation Improvement Grant
- Butler, M.** 1984. "Field tests of hypotheses regarding character displacement in crayfish", Sigma Xi Grant-in-Aid of Research
- Butler, M.** 1981-1983. "Displacement of the crayfish *Orconectes sanborni* by *O. rusticus*: an analysis of the mechanisms", Ohio Department of Natural Resources
- Butler, M.** 1981. "Competitive exclusion in two species of crayfish, *Orconectes rusticus* and *O. sanborni*", Sigma Xi Grant-in-Aid of Research

Butler, M. and R. Stein 1981. "Competitive interactions between two species of crayfish?", Ohio State University Grant-in-Aid of Research

HONORS AND AWARDS

- 2011 Virginia Outstanding Faculty Member of the Year, Virginia State Council of Higher Education
Nominee for US Professor of the Year
- 2010 Eminent Scholar, Old Dominion University
Nominee for US Professor of the Year
Finalist: State Council of Higher Education Outstanding Faculty of the Year Award
- 2009 Co-authored publication (Steneck et al. 2009) selected as one of most interesting papers in biology for 2009 by "Faculty 1000 Biology"
- 2008 Hirschfield Award for Faculty Excellence in Teaching, Research & Service, College of Sciences, Old Dominion University
Finalist, Doctoral Mentoring Award, Office of Graduate Studies, Old Dominion University
- 2005 Award for Outstanding Teaching, Department of Biological Sciences, Old Dominion University
- 1995 "Best Paper in Fisheries Science", New Zealand Marine Sciences Conference
- 1991 "Most Inspiring Faculty Award", College of Sciences, Old Dominion University
- 1989 "Best Oral Presentation in Basic Science", North American Benthological Society
- 1988 Guyer Postdoctoral Fellowship, University of Wisconsin
- 1986 Marine Science Graduate Fellowship, Aylesworth Foundation
- 1986 Marine Science Fellowship, International Women's Fishing Association
- 1983 College of Sciences Fellowship, Florida State University
- 1980 Cum Laude, Mortar Board Honorary, Tri-Beta Honorary - Wittenberg University

GRADUATE STUDENT SUPERVISION

I have fortunate enough to have had in my laboratory many fine graduate students over the years, all of whom quickly found employment within their field of study or went on to further their graduate training elsewhere. Those students now hold academic positions (University of Florida, Tennessee Tech University, University of Northern Kentucky, Loyola University) or important administrative positions at federal, state, and non-governmental organizations throughout the country (e.g., Science Director – NOAA/Florida Keys National Marine Sanctuary; Conservation Director - International Gamefish Association Headquarters; Staff Scientist – National Marine Fisheries Service; Scientist – Battelle National Laboratories). Students who obtained their Masters degree in my laboratory have gone on to pursue doctoral degrees at institutions such as: MIT-Woods Hole, Florida State University, University of Edinburgh, University of New Hampshire, and University of Missouri. I have also served as an outside committee member or reviewer of doctoral dissertations at both US institutions (e.g., North Carolina State University, Virginia Institute of Marine Science, Florida State University) and universities abroad (e.g., University of Adelaide, Australia; University of Western Australia, Australia; University of the West Indies – Kingston, Jamaica).

Postdoctoral Fellows:

Antonio Baeza (2010-2012)

Jeremy Wiesz (2005-2008)

Donald Behringer (2003 – 2004)

Emmanuel Ricelet (1999-2000), Postdoc Fellowship from French Government

Students Graduated:

John Tiggelaar (M.S.), Thesis topic: "The effect of Hematodinium infection on the ecology of the blue crab, *Callinectes sapidus*"

Thomas Dolan (Ph.D., 2011), Dissertation: "Spatially-Explicit Agent-Based Modeling of Ecosystem Change and Epizootiological Impacts on Caribbean Spiny Lobster, *Panulirus argus*"

Meredith Kintzing (Ph.D., 2011), Dissertation: "Assessing the ecological significance of interactions between the spotted spiny lobster (*Panulirus guttatus*) and the long spined sea urchin (*Diadema antillarum*) in shaping coral reef communities in the Florida Keys.

Angela Mojica (M.S. 2009), Thesis: "Effect of the herbivorous channel clinging crab (*Mithrax spinosissimus*) on patch reef algal communities in the Florida Keys, Florida USA"

Scott Donahue (M.S. 2007), Thesis: "Influences of the Loggerhead sponge (*Speciospongia vesparium*) and the Vase sponge (*Ircinia campana*) on nearshore hard-bottom community development in the Florida Keys".

Jason Goldstein (M.S. 2006), Thesis: "Behavioral enhancement of onshore transport by postlarval Caribbean spiny lobster, *Panulirus argus*".

Holly Fernbach (M.S. 2004), Thesis: "Social continuity of migratory bottlenose dolphin off Cape Henry, VA"

Jennifer Lear (M.S. 2004), Thesis: "Strong interactions between juvenile Caribbean spiny lobster (*Panulirus argus*) and Caribbean reef octopus (*Octopus briareus*) in the Florida Keys, FL"

Roxanne Carter (M.S.), Non-thesis: "GIS analysis of Florida Keys hard-bottom communities"

Gretchen Bath-Martin (Ph.D. 2003), Dissertation: "Experimental investigation of elemental incorporation in the otoliths of larval and juvenile fish: implications for use as environmental recorders".

Donald Behringer (Ph.D. 2003), Dissertation: "A stable isotope analysis of hard bottom community food webs in the Florida Keys"

Jamie Heisig (M.S. 2003), Thesis: "Biochemical and histological analysis of sperm longevity and spermatophore structure in spiny lobsters"

Denice Robertson (Ph.D. 2001), Dissertation: "The target-area hypothesis: the impact of patch reef size on population structure, mating, and reproductive success of the spotted spiny lobster, *Panulirus guttatus*"

Tom Dolan (M.S., 2000), Non-thesis: "Modeling ontological changes in the social behavior of juvenile Caribbean spiny lobster, *Panulirus argus*"

Jason Schratwieser (M.S. 1999), Thesis: "The impact of resident and transient predators on the population dynamics of juvenile Caribbean spiny lobster in Florida"

Dianne Hansen (M.S. 1998), Non-thesis: "The effect of octopus predators on habitat choice by spiny lobsters"

Charles Acosta (Ph.D., 1997), Dissertation: "Ecology of postlarval Caribbean spiny lobsters, *Panulirus argus*"

Cheryl Frew (M.S., 1994), Thesis: "The role of colonization, predation, and season in determining macroinvertebrate community structure in a temperate lake"

Georgi Hyde (M.S., 1993), Non-Thesis: "An evaluation of field techniques for use in studies of post-algal phase juvenile spiny lobsters, *Panulirus argus*"

Jennifer Field (M.S., 1993), Thesis: "The influence of temperature, salinity, and postlarval transport on the distribution of juvenile spiny lobsters, *Panulirus argus*, in Florida Bay"

Hayden Mattingly (M.S., 1991), Thesis: "A laboratory study of predation on the Trinidadian guppy, *Poecilia reticulata*, by two natural piscine predators: effects of predator size, prey size, and habitat complexity"

Current Students:

Jack Butler (Ph.D.), Thesis topic: "Sponge mass mortalities, changing sound signatures, and alterations in recruitment in tropical marine hard-bottom communities"

Lester Gittens (Ph.D.) Thesis Topic: "Lobster fishery management in the Bahamas"

Jason Spadero (M.S.) Thesis Topic: "Spider crabs as tools for coral reef restoration"

Ben Gutzler (M.S.), Thesis Topic: "Effect of casita fishery on lobster population biology in the Florida Keys"

COURSES TAUGHT

Department of Biological Sciences, Old Dominion University:

Biometry (706/806), Limnology (417/517), Marine Ecology (415/515), Experimental Marine Ecology (444/544), Field Studies in Marine Biology (444), Marine Biology (232), Ecological Sciences Seminar (708/808; graduate seminars: statistical ecology, community ecology, historical ecology, null models in ecology, ecological grantsmanship, Monte Carlo methods in biology)

Department of Geology and Oceanography, University of Wisconsin:

Oceanography (105)

PROFESSIONAL SERVICE

Scientific Meeting Activities:

- 2011-2012 Chair & Organizer, 41st Annual Benthic Ecology Meeting, Norfolk, VA
- 2010 Organizer, Florida Keys Lobster Fishermen Workshop
- 2009 IUCN Threatened Species Workshop Participant, Taiwan
- 2004-2009 International Workshop Instructor: Monitoring recruitment on coral reefs, Coral Reef Targeted Research Program: Akumal, Mexico; Turneffe Cay, Belize; Miami, FL, Roatan, Honduras; Ft. Lauderdale, FL.
- 1990-2011 Scientific Session Chair, Marine Benthic Ecology Meetings
- 2007 Symposium organizer and Chair: "Lobster Behavior", 8th International Lobster Conference, Prince Edward Island, Canada
- 2005 Symposium organizer and Co-Chair: "Effect of Human Exploitation on Crustacean Mating Systems", 6th International Crustacean Congress, Glasgow, Scotland
- Session Chair, Benthic Ecology Meeting, Williamsburg, VA
- 2004 Session Chair, 7th International Lobster Conference, Hobart, Tasmania
- 2003 Session Chair, European Decapod Fisheries Assessment and Management Meeting, La Coruna, Spain.
- 2000 Chair, Organizing Committee, 6th International Lobster Conference, Key West, FL
- 1997 Symposium organizer and Chair: "Benthic ecology of lobsters", 5th International Lobster Conference, Queenstown, New Zealand
- 1993 Session Chair, 4th International Lobster Conference, Sanriku, Japan
- 1992 Symposium organizer and co-chair: "Recruitment dynamics in marine fisheries: integrating basic and applied ecology", Ecological Society of America Meeting, Honolulu, Hawaii
- 1990 Co-Chairman - Program Committee, Marine Benthic Ecology Meeting, Williamsburg, VA
- 1990 Local Site Selection Committee, Association of Southeastern Biologists Meeting, Virginia Beach, VA
- 1987 Symposium organizer and chair: International Congress of Ecology - Ecological Society of America Meeting, Syracuse, NY

Professional Administrative and Editorial Activities:

- 2012 Guest Editor, *Diseases of Aquatic Organisms*
Advisory Board, Goshen College Marine Biology Program & Station
- 2011 President-Elect, Benthic Ecology Society
VA State Council of Higher Education Faculty Award Review Committee
Chair, Kanciruk Student Travel Award Foundation
- 2009 – 2013 Wetlands Board Member, City of Suffolk, VA
- 1998-2012 Panelist, The National Science Foundation
- 1996 - 2008 Editor, *The Lobster Newsletter* (international newsletter)
- 1999 – 2004 Editorial Staff, *Marine Ecology Progress Series*
- 1999 Blue Crab Scientific Task Force, Appointed by VA Secretary of Natural Resources
- 1995- 2003 Scientific Advisory Board, Gulf of Mexico Fishery Management Council
- 1995-1998 Panelist, The National Undersea Research Program

1993-1995 Secretary, Aquatic Ecology Section of the Ecological Society of America
 1991-1995 Board of Directors, Gulf and Caribbean Fisheries Institute
 1989-1992 Senior Editor, *Proceedings of the Gulf and Caribbean Fisheries Institute*

In addition to the responsibilities listed above, I regularly review manuscripts for journals such as: *Ecology/Ecological Monographs, Marine Ecology Progress Series, Marine Biology, American Midland Naturalist, Journal of Experimental Marine Biology and Ecology, Bulletin of Marine Science, Journal of Crustacean Research, Transactions of the American Fisheries Society, and Fisheries*. I also regularly review proposals for: The National Science Foundation, Sea Grant, The National Marine Fisheries Service, and NOAA's National Undersea Research Program.

Significant Departmental Service Activities:

2012 Director, Marine Biology Concentration Program
 Director, Marine & Aquatics Laboratory Facility
 Faculty Advisor, ODU Marine Biology Student Association
 2011 Director, Marine Biology Concentration Program
 Director, Marine & Aquatics Laboratory Facility
 Faculty Advisor, ODU Marine Biology Student Association
 2010 Chair, Promotion & Tenure Committee
 Chair, Seminar Committee
 2009 Chair, Promotion & Tenure Committee
 Chair, Seminar Committee
 2008 Chair, Promotion & Tenure Committee
 Chair, Executive Committee
 2007 Chair, Ecology/Evolutionary Biology Search Committee
 2005-present Faculty Mentor
 2005 Computational Biologist Search Committee
 2002-2004 Assistant Departmental Chair
 2002 Chair, Tenure & Promotion Committee
 Chair, Ecological/Evolutionary Biologist Faculty Search Committee
 Executive Committee
 2001 Parasitology Faculty Search Committee
 2000, 2002 Executive Committee
 1996-2000 Graduate Program Director, Master's in Biology Program
 1997-1998 Chair, Portfolio Review Committee
 1997-1998 Chair, Environmental Biology Faculty Search Committee
 1994-present Curriculum Committee
 1996 Chair, Executive Committee
 1995 Executive Committee
 1989-2000 Advisor for Biology Graduate Student Organization

Significant University Service Activities:

2013 Council for International Initiatives
 2011 Chair, Eminent Scholar Committee
 University Research Data Management Committee
 Chair, Cobb Island Station Initiative Committee

- 2006-present Chair & Organizer, Diving Control Board, ODU Academic Diving Program
2003-2007 College of Sciences Research Building Planning & Design Committee
2003-2004 College of Sciences Research Committee
2002- 2004 College of Sciences Tenure & Promotion Committee
1998-1999 Search Committee for Vice President, Graduate Studies & Research
1998-present *ad hoc* Committee on Marine Mammalogy program for College
1998-1999 *ad hoc* Committee for fast-track M.S. degree in Environmental Science
1997 University Intercollegiate Athletic Committee
1997 President's "Bus Tour" to recruit students
1992 - 1994 University Intercollegiate Athletic Committee
1993 College of Sciences Computing Services Committee
1992 *ad hoc* Committee on Integrity in Research
1991 *ad hoc* College of Sciences Honor Code Committee
1990-1991 Faculty Senate (1990-1991)
Committee M: Intercollegiate Athletics; chairman (1991)
1989 University Parking Services Committee