

Research and Educational Publications from Shoals Marine Laboratory

This list includes publications based on work conducted at the Isles of Shoals using facilities and vessels of Shoal Marine Laboratory. Papers are listed in reverse chronological order. Asterisks (*) denote an author who was an REU or RIFS student. Authors indicated in bold currently lead major research or survey programs at SML. Some publications include SML contribution numbers in their text or acknowledgments; such contribution numbers are noted in this list.

- Bonter, D.N., M.C. Moglia and L.E. DeFisher. 2015. Sons don't take advantage of a head start: Parity in offspring sex ratios despite greater initial investment in males. *Journal of Avian Biology* 46:1-8. (SML Contribution 177)
- Keogh, C.L., M.E. Sanderson, and J.E. Byers. 2015. Local adaptation to parasite selective pressure: comparing three congeneric co-occurring hosts. *Oecologia* (in press). (SML Contribution 171)
- Moisander, P.H., A.D. Sexton, and M.C. Daley. 2015. Stable associations masked by temporal variability in the marine copepod microbiome. *PLoS ONE* 10: e0138967. doi:10.1371/journal.pone.0138967 (SML Contribution 184)
- Covino, K.M, S.R. Morris, and F.R. Moore. 2015. Patterns of testosterone in three Nearctic–Neotropical migratory songbirds during spring passage. *Gen. Compar. Endro.*, in press. (SML Contribution 182)
- Covino, K.M., 2015. 2015. Determination of sex using morphometrics in the northern waterthrush (*Parkesia noveboracensis*) and Swainson's thrush (*Catharus ustulatus*). *Wilson Journal of Ornithology* 127: (SML Contribution 180)
- Shah, S.S*, E.I. Greig, S.A. MacLean*, and D.N. Bonter. 2015. Risk-based alarm calling in a nonpasserine bird. *Anim. Behav.* 106:129-136. (SML Contribution 166).
- Bonter, D.N., S.A. MacLean*, S.S. Shah*, and M.C. Moglia*. 2014. Storm induced shifts in optimal nesting sites: A potential effect of climate change. *Journal of Ornithology.* 155: 631-638. (SML Contribution 167).
- Ellis, J.C., S.M. Bogdanowicz, M.C. Stoddard, and L.W. Clark. 2014. Hybridization of a lesser black-backed gull and herring gulls in eastern North America. *Wilson J. Ornithology* 126:338-345. (SML Contribution 168)
- Garrett, J.N. and F.E. Fish. 2014. Kinematics of terrestrial locomotion in harbor seals and gray seals: Importance of spinal flexion by amphibious phocids. *Marine Mammal Science.* **(*): *** - ***. DOI: 10.1111/mms.2170
- Mychajliw*, A.M. and R.G. Harrison. 2014. Genetics reveal the origin and timing of a cryptic insular introduction of muskrats in North America. *PLoS ONE.* doi: 10.1371/journal.pone.0111856

- MacLean*, S.A. and **D.N. Bontler**. 2013. The sound of danger: threat sensitivity to predator vocalizations, alarm calls, and novelty in gulls. PLoS ONE. 8(12): e82384. doi:10.1371/journal.pone.0082384. (SML Contribution 166)
- DeFisher*, L.E. and **D.N. Bontler**. 2013. Effects of invasive European fire ants (*Myrmica rubra*) on Herring Gull (*Larus argentatus*) reproduction. PLoS ONE 8(5):e64185. (SML Contribution163)
- Simonis, J.L. 2013. Predator ontogeny determines trophic cascade strength in freshwater rock pools. Ecosphere 4:art62. <http://dx.doi.org/10.1890/ES13-00019.1> Shoals Marine Laboratory Contribution #165.
- Brown, JM, NR Felice, NB Scalfone, and I Hewson. 2012 Influence of habitat confluence on aquatic microbial assemblages in experimental mesocosms. Aquatic Microbiology Ecology. 66: 33 – 40. (SML Contribution160)
- Ellis, J.C.**, K.E. Allen, M.S. Rome and M.J. Shulman. 2012. Choosing among mobile prey species: Why do gulls prefer a rare subtidal crab over a highly abundant intertidal one? Journal of Experimental Marine Biology and Ecology. 416 – 417: 84 – 91. Shoals Marine Laboratory Contribution #158.
- Seeley, R.H. and W.H. Schlesinger. 2012. Sustainable seaweed cutting? The rockweed (*Ascophyllum nodosum*) industry of Maine and the Maritime provinces. Annals of the New York Academy of Sciences 1249:84-103.
- Seeley, T.D.**, P. K. Visscher, T. Schlegel, P. M. Hogan, N. R. Franks and J. A. R. Marshall. 2012. Stop Signals Provide Cross Inhibition in Collective Decision-Making by Honeybee Swarms. Science. 335: 108 – 111.
- Suomala, R.W., **S.R. Morris**, and K.J. Babbitt. 2012. Comparison of migrant songbird stopover ecology on two islands in the Gulf of Maine. Wilson Journal of Ornithology 124:217-229. Shoals Marine Laboratory Contribution #154.
- Hewson, I.**, J.M. Brown, S.A. Gitlin and D.F. Doud. 2011. Nucleopolyhedrovirus detection and distribution in terrestrial, freshwater and marine habitats of Appledore Island, Gulf of Maine. Microbial Ecology. 62(1): 48 – 57, doi: 10.1007/s00248-9856-1. Shoals Marine Laboratory Contribution #156.
- Elias, S.P., R. P. Smith, **S.R. Morris**, P.W. Rand, C. Lubelczyk and E.H. Lacombe. 2011. Density of *Ixodes scapularis* ticks on Monhegan Island after complete deer removal: A question of avian importation? Journal of Vector Ecology. 36(1): 11 – 23, doi: 10.1111/j.1948-7134.2011.00136.x. Shoals Marine Laboratory Contribution #155.
- Martiny, A.C., J.B.H. Martiny, C. Weihe, A. Field and **J.C. Ellis**. 2011. Functional metagenomics reveals previously unrecognized diversity of antibiotic resistance genes in gulls. Frontiers in Microbiology. 2: doi: 10.3389/fmicb.2011.00238.

- Savoca*, M.S., **D.N. Bonter**, B. Zuckerberg, J.L. Dickinson, and **J.C. Ellis** 2011. Nesting density is an important factor affecting chick growth and survival in the herring gull. *The Condor* 113(3): 565 – 571. Shoals Marine Laboratory Contribution #157.
- Suomala, R.W., **S.R. Morris**, K.J. Babbitt, and T.D. Lee. 2010. Migrant songbird species distribution and habitat use during stopover on two islands in the Gulf of Maine. *Wilson Journal of Ornithology* 122:725-737. Shoals Marine Laboratory Contribution #153.
- Seeley, T.D.** 2010. *Honeybee Democracy*. Princeton, N.J. Princeton Univ. Press.
- Rangel, J., S.R. Griffin, and **T.D. Seeley**. 2010. An oligarchy of nest-site scouts triggers a honeybee swarm's departure from the hive. *Behavioral Ecology and Sociobiology* 66: 979-987.
- Rangel, J., S.R. Griffin, and **T.D. Seeley**. 2010. Nest-site defense by competing honey bee swarms during house-hunting. *Ethology* 116:608-618.
- Mulder, C.P.H. and **J.C. Ellis**. 2010. Seabird Island Ecology. In *Encyclopedia of Life Sciences (ELS)*. John Wiley & Sons, Ltd: Chichester. Doi: 10.1002/9780470015902.a0022557.
- Dantzker, M. and D.O. Brown. 2009. *Signals for Survival* (High-definition video). Sinauer, Sunderland, Massachusetts. 38 minutes.
- List, C., C. Elsholtz, and T.D. **Seeley**. 2009. Independence and interdependence in collective decision making: an agent-based model of nest-site choice by honeybee swarms. *Philosophical Transactions of the Royal Society of London B* 364:755-762.
- Freeman, A., J. Meszaros*, and J.E. Byers. in press, 2009. Poor phenotypic integration of blue mussel inducible defenses in multiple predator environments. *Oikos*
- Perez, K.O., R.L. Carlson, M.J. Shulman, **J.C. Ellis**. 2009. Why are intertidal snails rare in the subtidal? Predation, growth and the vertical distribution of *Littorina littorea* (L.) in the Gulf of Maine. *J. Experimental Marine Biology and Ecology* 369:79-86.
- Blakeslee*, A. and J.E. Byers. 2008. Using parasites to inform ecological history: comparisons among three congeneric marine snails. *Ecology* **89**:1068-1078.
- Blakeslee*, A., J.E. Byers, M.P. Lesser. 2008. Solving cryptogenic histories using host and parasite molecular genetics: the resolution of *Littorina littorea*'s North American origin. *Molecular Ecology* **17**:3684-3696.
- Bogomolni, A.**, R. Gast, **J.C. Ellis**, M. Dennett, K. Pugliares, B. Lentell, M. Moore. 2008. Victims or vectors: a survey of vertebrate zoonoses from coastal waters of the Northwest Atlantic. *Diseases of Aquatic Organisms*. 81:13-38
- Byers, J.E., A. Blakeslee*, E. Linder, A. Cooper, and T. Maguire*. 2008. Controls of spatial

- variation in the prevalence of trematode parasites infecting a marine snail. *Ecology* **89**:439-451.
- Ellis, J.C.**, M.C. Stoddard*, and L.W. Clark. 2008. Breeding by a Lesser Black-backed Gull (*Larus fuscus*) on the Atlantic coast of North America. *North American Birds*. 61:546-548. Shoals Marine Laboratory Contribution # 144.
- Griffen, B.D. and T. Williamson. 2008. Influence of predator density on nonindependent effects of multiple predator species. *Oecologia*. 155: 151 – 159.
- Nichols, W.F. and V.C. Nichols. 2008. The land use history, flora, and natural communities of the Isles of Shoals, Rye, New Hampshire and Kittery, Maine. *Rhodora* **110**:245-295.
- Passino, K.M., **T.D. Seeley**, and P.K. Visscher. 2008. Swarm cognition in honey bees. *Behavioral Ecology and Sociobiology* **62**:401-414.
- Rangel, J. and **T.D. Seeley**. 2008. The signals initiating the mass exodus of a honey bee swarm from its nest. *Animal Behaviour* **76**:1943-1952.
- Rittschof*, C.C. and **T.D. Seeley**. 2008. The buzz-run: how honey bees signal ‘Time to go!’ *Animal Behaviour* **75**:189-197.
- Schultz, K., K.M. Passino, and **T.D. Seeley**. 2008. The mechanism of flight guidance in honeybee swarms: subtle guides or streaker bees? *Journal of Experimental Biology* **211**:3287-3295.
- Seeley, T.D.** and P.K. Visscher. 2008. Sensory coding of nest-site value in honeybee swarms. *Journal of Experimental Biology* **211**:3691-3697.
- Ellis, J.C.**, M.J. Shulman, H. Jessop, R. Suomala, **S. Morris**, V. Seng, M. Wagner, and K. Mach. 2007. Impact of a few mammalian predators on breeding success in large colonies of Herring Gulls and Great Black-backed Gulls. *Waterbirds*. 30:375-383.
- Ellis, J.C.**, M.J. Shulman, M. Wood, J.D. Witman, S. Lozyniak. 2007. Regulation of cross-ecosystem food webs by avian predators on New England rocky shores. *Ecology*. 88:853-863.
- Visscher, P.K. and **T.D. Seeley**. 2007. Coordinating a group departure: who produces the piping signals on honeybee swarms? *Behavioral Ecology and Sociobiology* **61**:1615- 1621.
- Wood, C.L.*, J.E. Byers, K. Cottingham, I. Altman, M. Donahue, and A. Blakeslee. 2007. Parasites alter community structure. *Proceedings of the National Academy of Sciences* **104**:9335-9339.
- Beekman, M., R.L. *Fathke, and **T.D. Seeley**. 2006. How does an informed minority of scouts guide a honey bee swarm as it flies to its new home? *Animal Behaviour* **71**:161- 171.

- Carlson*, R.L., M.J. Shulman, **J.C. Ellis**. 2006. Factors contributing to spatial heterogeneity in the abundance of the common periwinkle *Littorina littorea* (L.) J. Molluscan Studies. 72:149-156. Shoals Marine Laboratory Contribution # 124.
- Ellis, J.C.**, J.M. Fariña, and J.D. Witman. 2006. Nutrient transfer from sea to land: the case of gulls and cormorants in the Gulf of Maine. Journal of Animal Ecology. 75:565-574.
- Ellis, J.C.** and T.P. Good. 2006. Nest attributes, aggression, and breeding success of gulls in single and mixed-species subcolonies. The Condor. 108:211-219.
- Fischer, E., A. Pszeny, W. Keene, J. Maben, A. Smith, A. Stohl, and R. Talbot (2006), Nitric acid phase partitioning and cycling in the New England coastal atmosphere, J. Geophys. Res., 111, D23S09, doi:10.1029/2006JD007328. Shoals Marine Laboratory Contribution # 126.
- Jones, P.L. and M.J. Shulman. 2006. Subtidal-intertidal trophic links: American lobsters [*Homarus americanus* (Milne-Edwards)] forage in the intertidal zone on nocturnal high tides. Journal of Experimental Marine Biology and Ecology. 361(2): 98 – 103.
- Morris, S. R.**, A. M. Larracuenta, K. M. Covino*, M. S. Mustillo, K. E. Mattern, D. A. Liebner, and H. D. Sheets. 2006. Utility of open population models: Limitations posed by parameter estimability in the study of migratory stopover. Wilson Journal of Ornithology 118:513-526. Shoals Marine Laboratory Contribution #127.
- Passino, K. and **T.D. Seeley**. 2006. Modeling and analysis of nest-site selection by honey bee swarms: the speed and accuracy trade-off. Behavioral Ecology and Sociobiology 59:427-442.
- Seeley, T.D.**, P.K. Visscher, and K.M. Passino. 2006. Group decision making in honey bee swarms. American Scientist 94:220-229.
- Ellis, J.C.**, W. Chen*, B. O'Keefe*, M.J. Shulman, J.D. Witman. 2005. Gull predation on crabs in the rocky intertidal and shallow subtidal zones of coastal New England. Journal of Experimental Marine Biology and Ecology. 324:31-43. Shoals Marine Laboratory Contribution # 120.
- Morris, S. R.**, D. A. Liebner, A. M. Larracuenta, E. M. Escamilla, and H. D. Sheets. 2005. Multiple-day constancy as an alternative to pooling for estimating mark-recapture stopover length in Nearctic-Neotropical migrant landbirds. Auk 122:319-328. Shoals Marine Laboratory Contribution # 117.
- Morris, S. R.**, E. M. Turner, D. A. Liebner, A. M. Larracuenta, and H. D. Sheets. 2005. Problems associated with pooling mark-recapture data prior to estimating stopover length for migratory passerines. Pages 673-679 in Bird Conservation Implementation and Integration in the Americas: Proceedings of the Third International Partners in Flight Conference 2002 (C.J. Ralph and T.D. Rich, eds.). U.S.D.A. Forest Service, PSW-GTR-191, Albany, CA. Shoals Marine Laboratory Contribution #109.

- Sive, B. C., Y. Zhou, D. Troop, Y. Wang, W. C. Little, O. W. Wingenter, R. S. Russo, R. K. Varner, and R. Talbot. 2005. Development of a cryogen-free concentration system for measurements of volatile organic compounds, *Anal. Chem.*, 77(21), 6989-6998, 10.1021/ac0506231. Shoals Marine Laboratory Contribution # 122.
- Stefaniak*, L.M., J. McAtee and M.J. Shulman. 2005. The costs of being bored: effects of a clionid sponge on the gastropod *Littorina littorea*. *Journal of Experimental Marine Biology and Ecology*. 327: 103 -114. Shoals Marine Laboratory Contribution #121.
- *Cully, S.M. and **T.D. Seeley**. 2004. Self-assemblage formation in a social insect: the protective curtain of a honey bee swarm. *Insectes Sociaux* **51**:317-324.
- Novak*, M. 2004. Diurnal activity in a group of Gulf of Maine decapods. *Crustaceana*. 77(Part 5): 603 – 620. Shoals Marine Laboratory Contribution # 118.
- Rome*, M.S. and **J.C. Ellis**. 2004. Foraging ecology and interactions between Herring Gulls and Great Black-backed Gulls in New England. *Waterbirds*. 27: 200-210. Shoals Marine Laboratory Contribution # 119.
- Seeley, T.D.** and P.K. Visscher. 2004. Group decision making in nest-site selection by honey bees. *Apidologie* **35**:1-16.
- Seeley, T.D.** and P.K. Visscher. 2004. Quorum sensing during nest-site selection by honeybee swarms. *Behavioral Ecology and Sociobiology* **56**:594-601.
- Apprill*, A.M. and M.P. Lesser. 2003. Effects of ultraviolet radiation on *Laminaria saccharina* in relation to depth and tidal height in the Gulf of Maine. *Marine Ecology Progress Series*. 256: 75 – 85. Shoals Marine Laboratory Contribution # 108.
- Byrnes*, J. and J. Witman. 2003. Impact assessment of an invasive flatworm, *Convoluta convoluta*, in the southern Gulf of Maine. *Journal of Experimental Marine Biology and Ecology*. 293: 173 – 191. Shoals Marine Laboratory Contribution # 132.
- Morris, S. R.**, C. R. Pusateri and K. A. Battaglia. 2003. Spring migration and stopover ecology of Common Yellowthroats (*Geothlypis trichas*) on Appledore Island, Maine. *Wilson Bulletin* 115:64-72. Shoals Marine Laboratory Contribution # 110.
- Seeley, T.D.** and P.K. Visscher. 2003. Choosing a home: how the scouts in a honey bee swarm perceive the completion of their group decision making. *Behavioral Ecology and Sociobiology* **54**:511-520.
- Britton, N.F., S.C. Pratt, N.R. Franks, and **T.D. Seeley**. 2002. Deciding on a new home: how do honey-bees agree? *Proceedings of the Royal Society of London* **B 269**:1383-1388.

- Flesher, D. and F.H. Martini. 2002. Lampreys, Pages 16 – 19 in *Bigelow and Schroeder's Fishes of the Gulf of Maine*, third edition. (B.B. Collette and G. Klein-MacPhee, eds.) Smithsonian Institute Press, Washington, D. C.
- Martini, F.H. and D. Flescher. 2002. Hagfishes, Pages 9 – 16 in *Bigelow and Schroeder's Fishes of the Gulf of Maine*, third edition. (B.B. Collette and G. Klein-MacPhee, eds.) Smithsonian Institute Press, Washington, D. C.
- Wheeler, A.G. Jr. 2002. *Chilacis typhae* (Perrin) and *Holcocranum saturejae* (Kolenati) (Hemiptera: Lygaeoidea: Artheneidae): Updated North American distributions of two palearctic cattail bugs. 2002. Proc. Entomol. Soc. Wash. 104(1), pp. 24-32.
- Gellin, C. E. and **S. R. Morris**. 2001. Patterns of movement during passerine migration on an island stopover site. *Northeastern Naturalist* 8:253-266. (SML Contribution 107)
- Morris, S.R.** and J. Glasgow. 2001. Spring and fall migration of American Redstarts on Appledore Island, Maine. *Wilson Bulletin* 113:202-210. (SML Contribution 106)
- Seeley, T.D.** and S.C. Buhrman. 2001. Nest-site selection in honey bees: How well do swarm implement the "best-of-N" decision rule? *Behavioral Ecology and Sociobiology* 49:416-427. (SML Contribution 105)
- Levin, P.S., **J.A. Coyer**, R. Petrik, and T.P. Good. 2002. Community-wide effects of non-indigenous species on temperate rocky reefs. *Ecology*. 83: 3182-3193. (SML Contribution 104)
- Weidenmiller, A., and **T.D. Seeley**. 1999. Imprecision in the waggle dances of honey bees for nearby food sources: Error or adaptation? *Behavioral Ecology and Sociobiology* 46:190-199. (SML Contribution 103)
- Morris, S.R.**, and M.T. Bradley. 2000. Is tail feather shape a reliable indicator of age in warblers and thrushes? *North American Bird Bander* 25:125-131. (SML Contribution 102)
- Morris, S. R.**, A. J. Donovan, and S. M. Agugliaro. 2003. Accuracy of sex determination of hatch-year Common Yellowthroats (*Geothlypis trichas*) during the fall. *North American Bird Bander* 28:105-110. (SML Contribution 102)
- Genovese, S.J and J.D. Witman 1999. Interactive effects of flow speed and particle concentration on growth rates of an active suspension feeder. *Limnology and Oceanography* 44: 1120-1131. (SML Contribution 101).
- Rivest, B., **J. Coyer** and S. Tyler. 1999. The first known invasion of a free-living marine flatworm. *Biological Invasions* 1(4):393-394. (SML Contribution 100)
- Martini, F. H. 1998. The Ecology of Hagfishes, in *The Biology of Hagfishes*, J. M. Joergenson ed., Chapman and Hall Pubs., London, pp: 57-77.

- Martini, F.H. 1998. Secrets of the Slime Hagfish. Scientific American. October 1998. V.228, no. 4: 44-49.
- Martini, F.H., J.B. Heiser, and M.P. Lesser. 1998. A population profile for Atlantic Hagfish, *Myxine glutinosa* l., in the Gulf of Maine, part 2: Morphological variation in populations of *Myxine glutinosa* l. in the North Atlantic ocean. Fishery Bulletin. 96: 516-514.
- Levin, P.S., W. Chiasson, J.M. Green. 1997. Geographic differences in recruitment and population structure of a temperate reef fish. Marine Ecology Progress Series 161: 23-35.
- Martini, F., J.B. Heiser, and M.P. Lesser. 1997. Ecology of the Hagfish, *Myxine glutinosa* l., in the Gulf of Maine II: Potential impact on benthic communities and commercial fisheries. Journal of Experimental Marine Biology and Ecology, V.214: 97-106
- Lesser, M.P., E.H. Martini, and J.B. Heiser. 1996. Ecology of the Hagfish, *Myxine glutinosa* l., in the Gulf of Maine I: Metabolic rates and energetics. Journal of Experimental Marine Biology and Ecology, V.208: 215-225.
- Levin, P.S. 1996. Recruitment in a temperate demersal fish: Does larval supply matter? Limnology & Oceanography 41: 672-679.
- Martini, F.H., J.B. Heiser, and M.P. Lesser. 1996. A population profile for Atlantic Hagfish, *Myxine glutinosa* l., in the Gulf of Maine, part 1: Morphometrics and reproductive state. Fishery Bulletin. 95 (2): 311-320.
- Morris, S.R.** 1996. Mass loss and probability of stopover by migrant warblers during spring and fall migration. J. Field Ornithol. 67:456-462.
- Morris, S.R.**, D.W. Holmes, and M.E. Richmond. 1996. A ten-year study of the stopover patterns of migratory passerines during fall migration on Appledore Island, Maine. Condor 98:395-409.
- Smith, R.P., Jr., P.W. Rand, E. H. Lacombe, **S.R. Morris**, D.W. Holmes, and D.A. Caporale. 1996. Role of bird migration in the long distance dispersal of *Ixodes dammini*, the vector of lyme disease. J. Infectious Diseases 174:221-224. Shoals Marine Laboratory Contribution # 133.
- Levin, P.S. 1994. Small-scale recruitment variation in a temperate fish: the roles of macrophytes and food supply. Environmental Biology of Fishes 40: 271-281.
- Levin, P.S. 1994. Fine-scale variation in recruitment of a temperate demersal fish: the importance of settlement versus post-settlement loss. Oecologia. 97: 124-133.
- Morris, S.R.**, M.E. Richmond, and D.W. Holmes. 1994. Patterns of stopover by warblers during spring and fall migration on Appledore Island, Maine. Wilson Bull. 106:703-718.

- Factor, J.R., and B.L. Dexter. 1993. Suspension feeding in larval crabs (*Carcinus maenas*). Journal of the Marine Biological Association, U.K., 73:207-211.
- Levin, P.S. 1993. Habitat structure, conspecific presence and spatial variation in the recruitment of a temperate reef fish. *Oecologia*. 94: 176-185.
- Witman, J.D., and K.P. Sebens. 1992. Regional variation in fish predation intensity: a historical perspective in the Gulf of Maine. *Oecologia* 90:305-315.
- Kingsbury, J.M. 1991. *Here's How We'll Do It: An Informal History of the Construction of the Shoals Marine Laboratory, Appledore Island, Maine*. Bullbrier Press, Ithaca, NY. 364 pp.
- Levin, P.S. and A.C. Mathieson 1991. Variation in a host-epiphyte relationship along a wave exposure gradient. *Marine Ecology Progress Series* . 77: 271-278.
- Witman, J.D. 1987. Subtidal coexistence: storms, grazing, mutualism, and the zonation of kelps and mussels. *Ecol. Monogr.* 57:167-187.
- Seeley, Robin Hadlock**. 1986. Intense natural selection caused a rapid morphological transition in a living marine snail. *Proc. Natl. Acad. Sci. USA*. 83: 6897-6901.
- Witman, J.D. 1985. Refuges, biological disturbance, and rocky subtidal community structure in New England. *Ecol. Monogr.* 55:421-445.
- Seeley, T.D.** 1983. Division of labor between scouts and recruits in honeybee foraging. *Behavioral Ecology and Sociobiology* 12:253-259.
- Seeley, T.D.** 1982. How honeybees find a home. *Scientific American* 247 (Oct): 158-168.
- Boden, G.T. 1979. The effect of depth on summer growth of *Laminaria saccharina* (Phaeophyta, Laminariales). *Phycologia* 18:405-408.
- Seeley, T.D.**, R.A. Morse, and P.K. Visscher. 1979. The natural history of the flight of honey bee swarms. *Psyche* 86:103-113.
- Seeley, T.D.** 1977. Measurement of nest cavity volume by the honey bee (*Apis mellifera*). *Behavioral Ecology and Sociobiology* 2:201-227.
- Boden, G.T. 1977. *The Vascular Flora of Appledore Island*. Shoals Marine Laboratory, Ithaca, NY. 46 pp.
- Gowen, A.G. and H.F. Mulligan. 1978. *A Photographic Guide to the Phytoplankton of the Coastal Waters, Gulf of Maine*. Shoals Marine Laboratory, Ithaca, NY. 164 pp.

Fowler-Billings, Katharine. 1977. Geology of the Isles of Shoals. Published by the State of New Hampshire Department of Resources and Economic Development. Concord, NH.

Kingsbury, J.M. 1975. *Oil and Water. The New Hampshire Story*. Shoals Marine Laboratory, Ithaca, NY. 102 pp.

Honors Theses resulting from SML REU and RIFS research

Brown, E. 2001. The role of food availability in determining the distribution and abundance of the sea star (*Asterias vulgaris*) and the green sea urchin (*Strongylocentrotus droebachiensis*). Honor's Thesis. Brown University.

Byrnes, J. 2001. The potential impact of an invasive acoel, *Convoluta convoluta*, in the Gulf of Maine. Honor's Thesis. Brown University.

Chen, W. 2001. Avian predation in the intertidal: Impact of the Great Black-backed Gull, *Larus marinus* (Linnaeus), on crab abundance. Honor's Thesis. Cornell University.

Kim, A. 2001. Encapsulation as protection from ultraviolet radiation for larval stages of the intertidal gastropod, *Nucella lapillus*. Honor's Thesis. Smith College.

Kraft, N. 2001. The role of decapod predation in limiting the lower distribution of the intertidal snail *Littorina littorea* in the Gulf of Maine. Honor's Thesis. Brown University.

Masters Theses & Ph.D. Dissertations

Burbidge, S. 2008. (Antioch New England) Thesis. Master of Science. Nest-site Selection and Response to Habitat Manipulation by Roseate Terns (*Sterna dougallii*) on Seavey Island, New Hampshire.

Morris, S.R. 1996. (Cornell) Ph.D. Dissertation. The migration and stopover ecology of neotropical migrants on Appledore Island, Maine.

Morris, S.R. 1993. (Cornell) M.S. Thesis. Patterns of stopover migratory passerines on Appledore Island, Maine: An analyses of banding records from 1983-1991.

Lyman, E. G. 1988. (UNH) Thesis. Master of Science. A Comparison of Island and Mainland Populations of the Muskrat, *Ondatra zibethicus*.

Doherty, K. 1986. (UNH) Thesis, Master of Science. An evaluation of secondary wastewater treatment alternatives for saline domestic wastewater.

Hallows, L.J. Shoals Marine Laboratory, Appledore Island, Maine. 1986.

Montagnes, D. 1986. (UNH) The annual cycle of planktonic ciliates in the waters surrounding the Isles of Shoals, Gulf of Maine: Estimates of biomass and production.

McGill-Harelstad, P. A. 1985. (Cornell) Ph.D. Dissertation. Mechanisms and Consequences of Interspecific Interactions among Gulls. 113 pages.

Weeks, H.J. 1985. (Cornell) Ph.D. Dissertation. Ecology of the Three Spined Stickleback (*Gasterosteus aculeatus*): Reproduction in rocky tidepools.

Lewis, S.J. 1982. (Cornell) Ph.D. Dissertation. Effects of oil on avian productivity and population dynamics. 172 pages.

Boden, G.T. (Cornell) 1977. Thesis, Master of Science. Some aspects of the ecology and growth of the brown seaweeds (*Laminaria* spp., *Agarum* spp., and *Alaria* spp.) in the Southern Gulf of Maine.

McGill, P.A. 1977. (Cornell) M.S. thesis. Breeding Ecology and Competition between Great Black-backed and Herring Gulls. 88 pages.

Kinner, Nancy 1976 (UNH) Thesis, Master of Science. An evaluation of the treatment of saline domestic wastewater using rotating biological contactor.

Martini, R.F. 1975. (Cornell) PhD dissertation. Product development and nutritional evaluation of underutilized species of sharks. .