

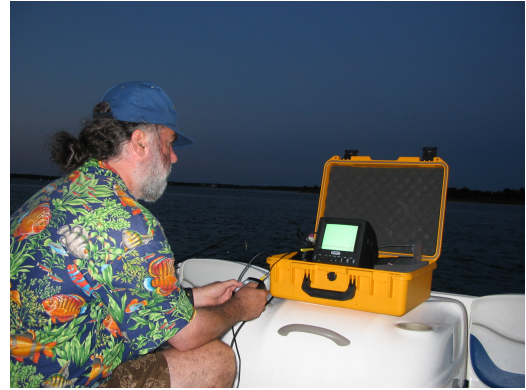
CURRICULUM VITAE¹

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EDUCATION

- B.S.** (with Honors), Marine Biology, University of North Carolina at Wilmington, 1983
- M.S.**, Marine Biology, College of Charleston, Charleston Higher Education Consortium, Charleston, South Carolina, 1987
- Ph.D.**, Ecology and Evolution, Rutgers, the State University of New Jersey, 1992

OVERVIEW

I have worked with colleagues, fishers, and the public to promote the non-invasive use of passive acoustics to fisheries and ecology questions for over 20 years. In doing so, I have recorded soundscapes in estuaries from Florida to Maine, on the commercial fishing grounds of the Gulf of Maine, in the deep-sea off of New England, and in freshwater habitats from the Amazon, Canyons of Utah, and in rivers, lakes, and ponds throughout New England. Today I'm known as "The Fish Listener" a title I promote to emphasize the act of listening to the natural environment. I got my BS (with honors) working on the symbiosis of fish and jellyfish with the late Dr. David Lindquist at the University of North Carolina at Wilmington. My MS was in Marine Biology at the Charleston Higher Education Consortium, working

¹ Note that my on-line C.V. has links to abstracts, data, some current proposals and current research activities.

on fish aggregation devices (FADs) with Dr. George Sedberry. My Ph.D. is in Ecology and Evolution from Rutgers University working on the importance of tidal marsh creeks to fishes and invertebrates with Dr. Kenneth Able. In the past I have managed multidisciplinary estuarine and fisheries programs for the National Marine Fisheries Service and University of Massachusetts. To date I have published over 80 papers and my work has been chronicled in the New York Times, NPR, Discover Magazine, and on-line. I have maintained a web site on fish ecology, <http://www.fishecology.org>, since 1998 which is popular among both researchers and the general public. The web page archived data on the food habits of 174 species of fish and squid, based on over 123,000 stomach samples collected by the National Marine Fisheries Service between 1973 and 1990 during annual Bottom Trawl Surveys. The site also includes brief descriptions of some of my work with fish sounds (Soniferous studies), including examples of the sounds of numerous species, as well as hundreds of unknown sounds. I recently began a blog with National Geographic Field Notes: "[Listening to Fish](#)".

RESEARCH INTERESTS

Ichthyology, Marine Biology and Ecology, Marine Invertebrate Ecology, Marine Behavioral Ecology. Fish and invertebrate ecology and behavior, estuarine ecology, community structure, habitat identification and use, physiological mediation of habitat use patterns, trophic structure, food habits, fish-invertebrate symbiosis (especially fish-jellyfish), ecology of artificial reefs, fish use of structure as habitat, schooling behavior, energy exchange between habitats through fish/invertebrate migrations, and use of fish vocal patterns as a tool to study their behavioral ecology and to identify essential fish habitats. Promotion of the development of passive acoustic technology applications to fisheries and marine and aquatic ecology.

PROFESSIONAL EXPERIENCE

The Fish Listener, Consulting business specializing in passive acoustic research on fishes and habitat soundscape descriptions. 2016 - present

Adjunct Associate Professor, Department of Biology, University of Victoria, BC, Canada. July 1, 2019 - present. I collaborate

with the Juanes Lab, especially regarding passive acoustics research, and help mentor students.

Affiliate Member of the **Faculty of Graduate Studies**, University of Victoria, BC, Canada. March 2018 - present.

Visiting Scientist, Department of Biology, University of Victoria, Victoria, BC, Canada. April 2017 - June 30, 2019

Adjunct Assistant Professor, Graduate Faculty Status, Department of Environmental Conservation, School of Food and Natural Resources, University of Massachusetts at Amherst. Served on thesis and dissertation committees of students. Co-taught, with Dr. Francis Juanes, a graduate seminar course in Trophic Dynamics. Research areas include: 1) behavior and habitat use patterns of salt marsh nekton; 2) regime shifts, statistical methods and analysis of Narragansett Bay fish time series; 3) Sound production by Cod, haddock and other Gulf of Maine fishes; 4) importance of the soundscape and sound production in North American freshwater habitats; 5) Invasion of the Hudson River by the freshwater drum; 6) Importance of fish fart and other air passage sounds; 7) development of technologies to aid the identification of unknown fish sounds; 8) Importance of sound production in the ecology of deep sea fishes. **Sept 1995 - December 2014.**

Board of Directors, The River Project. A nonprofit environmental organization founded in 1986 to inform the public about the Hudson River environment (<http://www.riverproject.org>). Plans are to rebuild The River Project as part of the new Tribeca section of the Hudson River Park now under construction. Pier 40 West St. & Houston St. 2nd floor, New York, NY. **2007-present.**

Senior Scientist and Director, Marine Ecology and Technology Applications, Inc. Our company is interested in nurturing the process of technogenesis in local, regional and national institutions. We find innovative new applications for existing technology and identify new technologies needed for marine ecology and conservation sciences. We also work to enhance the transfer of knowledge among industry, academic and resource management professionals and aid these professionals in communicating with the public. **2006-2012.**

Visiting Instructor, Massachusetts Maritime Academy. Taught Biology of Fishes, **Fall 2009 and Spring 2012.**

Board Member, Professionalism Committee Chair, Southern New England Chapter of the American Fisheries Society. Established in 1968, the Southern New England Chapter is one of many American Fisheries Society Chapters created to provide regional support for the objectives of the parent society. The AFS is the oldest and largest scientific group dedicated to the advancement of fisheries science and the conservation of renewable aquatic resources. **2008-2012.**

Research Associate and Program Manager, for the Fisheries Observation Program at SMAST. Responsible for managing a multidisciplinary program to collect fisheries related data from industry-based research programs. Major components included managing the Georges Bank High Resolution Trawl Survey, two major Atlantic Cod tagging projects, and a yellowtail flounder tagging project in the Gulf of Maine and Georges Bank areas. The program involved extensive collaboration with the New Bedford and other New England commercial fishing fleets. Direct supervision of three technicians. **March 1, 2003 - November 17, 2005.**

Postdoctoral Fellow and Program Manager, Mount Hope Bay Natural Laboratory, School for Marine Science and Technology, UMass Dartmouth. Oversaw the development of this multidisciplinary program aimed at examining anthropogenic and natural influences on the Mt. Hope Bay ecosystem. Coordinated in-house and collaborative research projects among 9 faculty members, developed MHBNL research plan, planned and coordinated public outreach forums related to MHB. **November 18, 2001 - March 1, 2003.**

Research Associate, Cape Cod Museum of Natural History, Brewster, MA. Provide expertise on marine ecology and biology of marine invertebrates and fishes of the region. Conducted a survey of the soniferous fishes of Cape Cod. **September 2001 - 2002.**

Acting Chief, Food Chain Dynamics Investigation, Woods Hole Laboratory, Northeast Fishery Science Center, NOAA, NMFS, Woods Hole, Massachusetts. Responsible for supervising research activities of 9 staff (GS-05 to GS-12) interested in determining food web structure on the northeast continental shelf, and in

the implications of feeding interactions and harvesting on fish community structure. A large part of my duties included serving as the site manager of the NOAA Coastal Oceans Program Georges Bank Predator Prey Study (Principle Investigator, Dr. Michael Fogarty, Univ. Maryland), including full budgetary control (400K per year), and supervision of extensive field activities involving NOAA Research Vessels. One major achievement was the establishment of a quality-controlled historic data set on the food habits of NW Atlantic fishes that is linked to the NMFS bottom trawl survey data. This achievement has enabled extensive research into the NW Atlantic food web by NMFS staff and their collaborators. **Received a full grade promotion August 1996. November 1995-November 1997.**

Research Planning Committee for the James J. Howard Marine Sciences Laboratory. Served as a member of a panel of scientist charged with development of a long-term research plan for the James J. Howard Marine Sciences Laboratory. Co-authored a working paper: "Multispecies Interactions in Coastal Waters of the Northeast U.S., Multispecies Interactions Involving Bluefish and Striped Bass: the Role of Inshore Ecosystems. A Research Proposal for: the James J. Howard Marine Sciences Laboratory, Northeast Fisheries Science Center, National Marine Fisheries Service" by Allen Bejda, John Borman, Wallace Morse, David Mountain, Rodney Rountree, Gary Shepherd, Anne Studholme, and Stuart Wilk. **1995-1996.**

Research Fishery Biologist, Woods Hole Laboratory, Northeast Fisheries Science Center, NMFS, Woods Hole, Massachusetts. Supervised quality control and restructuring of an extensive time series (18 years and over 130,000 samples) of food habits data of continental shelf fishes. Responsible for training of NMFS staff and Research Cruise volunteers with the identification of fishes and invertebrates commonly encountered in stomach samples. Served as Watch Chief and Chief Scientist aboard NEFSC research cruises. Examined aspects of groundfish community structure based on long term food habits data. Contributed to efforts to construct multi species models of Georges Banks groundfish communities and population dynamics. **Received a Commendable Performance Award 1993, and Outstanding Performance Awards 1994 and 1995. August 1992-1995.**

Visiting Instructor, Marine Animal Ecology, Department of Biological Sciences, Rutgers, the State University of New Jersey, New Brunswick, New Jersey. **February-June 1992.**

Doctoral Candidate, Ecology and Evolution, Rutgers, the State University of New Jersey, New Brunswick, New Jersey. Dr. Kenneth W. Able, Major Advisor. Drs. Peter J. Morin, C. Levett Smith, and Timothy E. Targett Research Committee members. My research focused on the importance of salt marsh creeks as nursery habitat for fishes and decapods in New Jersey. As part of this work I've described faunal composition, abundance, seasonality, diel patterns, and patterns of growth of marsh creek fauna (see publications list). My interests also focused on the importance of seasonal migrations to energy export from the marsh, and on how creek morphology and tidal dynamics influenced community structure. This was the first study to focus on salt marsh tidal creek habitat in the northeastern United States, and it provided compelling evidence of the critical function of marsh creeks as nursery habitats in the Northeast. It also revealed the importance of conducting both day and night sampling in the estuary in order to adequately describe habitat use as a nursery. Additionally, this study infers a great importance of diel and tidal migrations to habitat use in the estuary. Another important outcome of this research was the identification of the, hitherto unknown, critical nursery habitat for summer flounder. **February 1986-May 1992.**

Graduate Research Assistant, under Dr. Kenneth W. Able, Center for Coastal and Environmental Studies, Rutgers University. Conducted research on estuarine habitat utilization by fishes. **February 1987-1991.**

Masters Candidate, Marine Biology, College of Charleston, Charleston, South Carolina. Dr. George R. Sedberry, Major Advisor. Drs. Charles K. Biernbaum, Harry W. Freeman and Mr. Mel Bell, Research Committee Members. My research examined how fishes use structure by using fish aggregation devices (FADs) I designed to test the hypothesis that the abundance of pelagic fish attracted to the structure was not related to structure size or complexity. This study is significant because it was the first rigorously designed field experiment with treatment replications to address the question (due to the logistical difficulty of carrying out this type of work in the open ocean), and was the first to demonstrate a significant effect of structure size/complexity on pelagic fish abundance (see publications list). I also made observations that suggested that FADs might enhance demersal productivity in some cases, rather than simply aggregating fishes. My recent research on modeling

schooling behavior with Dr. Sedberry is rooted in observations made during this study. **August 1983-December 1987.**

Contributing Scientist, NOAA National Undersea Research Program. 1987. Provided review and comments to the Southeastern Council for Undersea Research (SECURE) Science Panel for the draft report: "Assessment of Undersea Research Requirements of the Southeastern United States" by SECURE Science Panel: Peter Bennett, Maurice Lynch, Dirk Frankenberg, Richard Lee, William Lindberg, Donald Swift, and Elizabeth Wenner, **December 1987.**

Graduate Research Assistant, under Dr. David S. Liao, South Carolina Marine Resources Division, Charleston, South Carolina. Assisted with South Carolina recreational shrimping creel survey. Conducted interviews, wrote statistical programs for data analysis and assisted with development of questionnaires. **May-December 1986.**

Graduate Teaching Assistant, General Biology Laboratory Instructor. College of Charleston. **September-May 1984 and January-December 1985.**

Biological Technician, under Dr. C. A. Barans and Mr. M. Bell, South Carolina Marine Resources Division, Charleston. Collected samples and biological data on king mackerel at recreational fishing tournaments and worked as a diver and technician in the Artificial Reef Program. **July-October 1984.**

Contracted worker for M. Bell, South Carolina Wildl. Marine Resources Rec. Fish. Dept. Built and assisted in deployment of 300 fish aggregation devices to be used in a state sponsored artificial reef. **June 1984.**

Assistant Vertebrate Collection, under Dr. J.F. Parnell, Univ. North Carolina at Wilmington. Prepared of bird skins and cetacean skeletons for the collection. **September 1982-May 1983.**

Assistant Ichthyology Collection, under Dr. D.G. Lindquist, Univ. North Carolina at Wilmington. Maintained fish collection, identified and catalogued specimens. **September 1981-September 1982.**

EXPERIENCE AT SEA

Chief Scientist aboard R/V *Connecticut* during passive acoustics studies of Stellwagen Bank National Marine Sanctuary, funded by NE-GL NURC. Have participated as Scientist, Watch Chief, or Chief Scientist on numerous NMFS Research Cruises aboard the R/V *Albatross* and R/V *Delaware* operating in waters from Nova Scotia Canada to Cape Hatteras North Carolina. Have logged 64 open ocean dives to a maximum of 110 ft conducted on board South Carolina Marine Resources Dept. research vessels off the southeastern U.S. from 1984 - 1986.

SPECIAL SKILLS

Training in both univariate and multivariate statistics, experience with Statistical Analysis System (SAS), VAX, UNIX, ORACLE, Fortran, and several types of word processors. Experience in design and maintenance of large relational data sets. Ichthyological curatorial experience (UNC-Wilmington), familiarity with marine fishes and invertebrates of eastern United States. PADI open water diver, experience in underwater fish census techniques. Experience with fish tagging methods. Experienced in supervision of biological collection in the open ocean on both large and small research vessels.

PUBLICATIONS

Rountree, R.A. 1989. Association of fishes with fish aggregation devices: effects of structure size on fish abundance and predator avoidance behavior. *Bulletin of Marine Science* 44(2):960-972.

Rountree, R.A. 1990. Community structure of fishes attracted to shallow water fish aggregation devices off South Carolina, U.S.A. *Environmental Biology of Fishes* 29:241-262.

Rountree, R.A., and K.W. Able. 1992. Fauna of polyhaline subtidal marsh creeks in southern New Jersey: composition, abundance and biomass. *Estuaries* 15(2):171-185.

Rountree, R.A., and K.W. Able. 1992. Foraging habits, growth, and temporal patterns of salt marsh creek habitat use by juvenile summer flounder in New Jersey. *Transactions of the American Fisheries Society* 121(6):765-776.

Szedlmayer, S.T., K.W. Able and R.A. Rountree. 1992. Summer

flounder growth and temperature induced mortality during the first year in southern New Jersey. *Copeia* 1992(1):120-128.

Rountree, R.A., and K.W. Able. 1993. Diel variation in decapod crustacean and fish assemblages in New Jersey marsh creeks. *Estuarine, Coastal and Shelf Science* 37:181-201.

Able, K.W., D.A. Witting, R.S. McBride, R.A. Rountree, and K.J. Smith. 1996. Fishes of polyhaline estuarine shores in Great Bay-Little Egg Harbor, New Jersey: a case study of seasonal and habitat influences. Chapter 14. In: Nordstrom, K.F., and C.T. Roman (eds.). *Estuarine Shore: Evolution, Environments and Human Alterations*. John Wiley & Sons, New York. John Wiley & Sons Ltd.

Rountree, R.A., and K.W. Able. 1996. Seasonal abundance, growth and foraging habits of juvenile smooth dogfish, *Mustelus canis*, in a New Jersey estuary. *Fishery Bulletin* 94(3):522-534.

Mann, D.A., J.D. Bowers-Altman, and R.A. Rountree. 1997. Sounds produced by the striped cusk-eel *Ophidion marginatum* (Ophidiidae) during courtship and spawning. *Copeia* 1997(3):610-612.

Rountree, R.A., and K.W. Able. 1997. Nocturnal fish use of New Jersey marsh creek and adjacent bay habitats. *Estuarine, Coastal and Shelf Science* 44:703-711.

Deegan, L.A., J.E. Hughes and R.A. Rountree. 2000. Salt marsh support of marine transient species. Pages 333-365. In: Weinstein, M., and D. Kreeger (eds). *Concepts and Controversies in Tidal Marsh Ecology*. Kluwer Academic Publishers, Boston. 875 p.

Scharf, F.S., F. Juanes, and R.A. Rountree. 2000. Predator size-prey size relationships of marine fish predators: interspecific variation and the effects of ontogeny and body size on trophic niche breadth. *Marine Ecology Progress Series* 208:229-248.

Avent, S.R., S.M. Bollens, M. Butler, E. Horgan, and R.A. Rountree. 2001. Planktonic hydroids on Georges Bank: ingestion and selection by predatory fishes. *Deep-Sea*

Research II 48:673-684.

- Rountree, R.A.** 2002. Wolffishes. Family Anarhichadidae. Pages 485-496. In: Collette, B.B., and G. Klein-MacPhee. (eds.). Bigelow and Schroeder's Fishes of the Gulf of Maine. 3rd Edition. Smithsonian Institution Press, Washington, D.C. 748 p.
- Rountree, R.A.** 2002. Barracudas. Family Sphyraenidae. Pages 505-507. In: Collette, B.B., and G. Klein-MacPhee. (eds.). Bigelow and Schroeder's Fishes of the Gulf of Maine. 3rd Edition. Smithsonian Institution Press, Washington, D.C. 748 p.
- Rountree, R.A. and J. Bowers-Altman.** 2002. Soniferous behavior of the striped cusk-eel, *Ophidion marginatum*. *Bioacoustics* 12(2/3):240-242.
- Rountree, R.A., P.J. Perkins, R.D. Kenney, and K.R. Hinga.** 2002. Sounds of Western North Atlantic Fishes: Data rescue. *Bioacoustics* 12(2/3):242-244.
- MacDonald, D., and R.A. Rountree.** (Editors). (2006). Natural and Anthropogenic Influences on the Mount Hope Bay Ecosystem. *Northeast Naturalist* 13(special issue 4).
- MacDonald, D., and R.A. Rountree.** 2006. Conclusions to the special issue: Natural and Anthropogenic Influences on the Mount Hope Bay Ecosystem. Pp. 199-204 *In*: MacDonald, D., and R.A. Rountree (eds). Natural and Anthropogenic Influences on the Mount Hope Bay Ecosystem. *Northeast Naturalist* 13(special issue 4).
- Rountree, R.A., R.G. Gilmore, C.A. Goudey, A.D. Hawkins, J. Luczkovich, and D.A. Mann.** 2006. Listening to Fish: Applications of Passive Acoustics to Fisheries Science. *Fisheries* 31(9):433-446 [Feature article with full cover]
- Rountree, R.A., and D. MacDonald.** 2006. Introduction to the special issue: Natural and Anthropogenic Influences on the Mount Hope Bay Ecosystem. Pp. 1-26 *In*: MacDonald, D., and R.A. Rountree (eds). Natural and Anthropogenic Influences on the Mount Hope Bay Ecosystem. *Northeast Naturalist* 13(special issue 4).

- Gröger, J. P., Winkler, H., Rountree, R. A.** 2007. Population dynamics of pikeperch (*Sander lucioperca*) and its linkage to fishery driven and climatic influences in a southern Baltic lagoon of the Darss-Zingst Bodden Chain. *Journal of Fisheries Research* 84(2007):189-201.(doi: 10.1016/j.fishres. 2006.10.018).
- Rountree, R.A., and K.W. Able.** 2007. Spatial and temporal habitat use patterns for salt marsh nekton: implications for functions. *Aquatic Ecology* 41:25-45.
- Fine, M.L., H. Lin, B.B. Nguyen, R.A. Rountree, T.M. Cameron and E. Parmentier.** 2007. Functional morphology of the sonic apparatus in the fawn cusk-eel *Lepophidium profundorum* (Gill, 1863). *J. Morphology* 268:953-966.
- Gröger, J.P., R.A. Rountree, and Hans-Joachim Ratz.** 2007. A stock rebuilding algorithm featuring risk assessment and an optimization strategy of single or multispecies fisheries. *ICES Journal of Marine Science* 64(6):1105-1115; doi:10.1093/icesjms/fsm085
- Gröger, J. P., R. A. Rountree, U. H. Thygesen, D. Jones, D. Martins, Q. Xu and B. Rothschild.** 2007. Geolocation of Atlantic cod, *Gadus morhua*, movements in the Gulf of Maine using tidal information. *Fisheries Oceanography* 16(4):317-335. (doi:10.1111/j.1365-2419.2007.00433.x).
- Stolkin, R., S. Radhakrishnan, A. Sutin, R. Rountree.** 2007. Passive acoustic detection of modulated underwater sounds from biological and anthropogenic sources. *IEEE MTS Oceans*
- Anderson, K.A., R.A. Rountree and F. Juanes.** 2008. Soniferous fishes in the Hudson River. *Transactions of the American Fisheries Society* 137(2):616-626.
- Barns, C., D.M. Bethea, R.D. Brodeur, J. Spitz, V. Ridoux, C. Pusineri, B.C. Chase, M.E. Hunsicker, F. Juanes, A. Kellermann, J. Lancaster, F. Menard, F.-X. Bard, P. Munk, J.K. Pinnegar, F.S. Scharf, R.A. Rountree, K.I. Stergiou, C. Sassa, A. Sabates, and S. Jennings.** 2008. Predator and prey body sizes in marine food webs. *Ecology* 89:881 (Ecological Archives E089-051.)
- Luczkovich, J.J., D.A. Mann and R.A. Rountree.** 2008. Passive

Acoustics as a Tool in Fisheries Science. *Transactions of the American Fisheries Society* 137(2):533-541.

- Luczkovich, J.J., D.A. Mann and R.A. Rountree.** (eds). 2008. Passive Acoustics as a Tool in Fisheries. Special Section. *Transaction of the American Fisheries Society* 137(2).
- Rountree, R.A.** 2008. Do you hear what I hear? Future technological development - and needs- in passive acoustics underwater observation. *Marine Technology Reporter* 51(9):40-46.
- Rountree, R.A., J.P. Gröger, and D. Martins.** 2008. Large vertical movements by a goosefish, *Lophius americanus*, suggests the potential of data storage tags for behavioral studies of benthic fishes. *Marine and Freshwater Behaviour and Physiology* 41(1):73-78.
<http://dx.doi.org/10.1080/10236240801934065>)
- Pappal, Adrienne L., D.G. MacDonald and R.A. Rountree.** 2009. Evidence of cobble habitat preference in age-0 winter flounder, *Pseudopleuronectes americanus*. *Marine and Freshwater Behavior and Physiology* 42(1):43-53.
- Rountree, R.A., and G.R. Sedberry.** 2009. A theoretical model of shoaling behavior based on a consideration of patterns of overlap among the visual fields of individual members. *Acta Ethologica* 12:61-70. ***Top ten downloads for the journal**
- Rountree, R.A., and F. Juanes.** 2010. First attempt to use a remotely operated vehicle to observe soniferous fish behavior in the Gulf of Maine, Western Atlantic Ocean. *Current Zoology* 56(1):90-99.
- Gröger, J.P., M. Missong, and R.A. Rountree.** 2011. Analyses of interventions and structural breaks in marine and fisheries time series: detection of shifts using iterative methods. *Ecological Indicators* 11(5):1084-1092
doi:10.1016/j.ecolind.2010.12.008
- Pappel, A.L., R.A. Rountree and D.G. MacDonald.** 2012. Relationship between body size and habitat complexity preference in age-0 and -1 year winter flounder *Pseudopleuronectes americanus*. *Journal of Fish Biology*

81(1):220-229.

- Rountree, Rodney A., Francis Juanes, Clifford A. Goudey and Kenneth E. Ekstrom.** 2012. Is biological sound production important in the deep sea? Pp. 181-183. In: Popper, A.N. and Hawkins, A. (eds.) *The Effects of Noise on Aquatic Life*. Springer Science+Business Media, LLC, New York. DOI 10.1007/978-1-4419-7311-5_41.
- Burchard, K.A., F. Juanes, R.A. Rountree, and W. Roumillat.** 2013. Staging ovaries of Haddock (*Melanogrammus aeglefinus*): implications for maturity indices and field sampling practices. *Fishery Bulletin* 111(1):90-106.
- Wall, C.C., R.A. Rountree, C. Pomerleau and F. Juanes.** 2013. An exploration for deep-sea fish sounds off Vancouver Island from the NEPTUNE Canada ocean observing system. *Deep-Sea Research I* 83:57-64.
- Burchard, K.A., F. Juanes, and R.A. Rountree.** 2014. Diel reproductive periodicity of *Melanogrammus aeglefinus* in the southwestern Gulf of Maine. *Transactions of the American Fisheries Society*. 143(2):451-466.
- Bolgan M, O'Brien J, Rountree RA, Gammell M.** 2016. Does the Arctic charr, *Salvelinus alpinus*, produce sounds in a captive setting? *J. Fish Biol* 89(3): 1857-1865.
- Riera, A., Rountree, R.A., Mouy, X., Ford, J.K. and Juanes, F.,** 2016. Effects of anthropogenic noise on fishes at the SGaan Kinghlas-Bowie Seamount Marine Protected Area. In *Proceedings of Meetings on Acoustics 4ENAL* (Vol. 27, No. 1, p. 010005). ASA.
- Wall Bell, C.C., R.A. Rountree and F. Juanes.** 2016. Mapping the Acoustic Soundscape off Vancouver Island Using the NEPTUNE Canada Ocean Observatory. Chapter 151. Pp. 1205-1211. In: A.N. Popper, A. Hawkins (eds.), *The Effects of Noise on Aquatic Life II, Advances in Experimental Medicine and Biology* 875, DOI 10.1007/978-1-4939-2981-8_151
- Rountree, R.A., and F. Juanes.** 2016. Potential of passive acoustic recording for monitoring invasive species: freshwater drum invasion of the Hudson River via the New York Canal System. *Biological Invasions* 19:2075-2088 DOI

10.1007/s10530-017-1419-z

- Riera, A., Rountree, R.A., Pine, M.K. and Juanes, F., 2018.** Sounds of Arctic cod (*Boreogadus saida*) in captivity: A preliminary description. *The Journal of the Acoustical Society of America* 143(5): EL317-EL321.
- Mouy, X., Rountree, R., Juanes, F. and Dosso, S.E., 2018.** Cataloging fish sounds in the wild using combined acoustic and video recordings. *The Journal of the Acoustical Society of America* 143(5): EL333-EL339.
- Rountree, R.A., F. Juanes, and M. Bolgan. 2018.** Air movement sound production by alewife, white sucker, and four salmonid fishes suggests the phenomenon is widespread among freshwater fishes. *PLOS ONE* 13(9): e0204247. <https://doi.org/10.1371/journal.pone.0204247>.
- Rountree R.A., Bolgan M. & Juanes F. 2019.** How Can We Understand Freshwater Soundscapes Without Fish Sound Descriptions? *Fisheries* 44(3):137-143. <https://doi.org/10.1002/fsh.10190>
- Correa, J.M.G., Sempere, J.T.B., Juanes, F., Rountree, R., Ruiz, J.F. and Ramis, J., 2019.** Recreational boat traffic effects on fish assemblages: First evidence of detrimental consequences at regulated mooring zones in sensitive marine areas detected by passive acoustics. *Ocean & Coastal Management* 168:22-34.
- Aguzzi Jacopo, Chatzievangelou Damianos, Marini Simone, Fanelli Emanuela, Danovaro Roberto, Flögel Sascha, Le Bris Nadine, Juanes Francis, De Leo Fabio, Del Rio Joaquin, Thomsen Laurenz, Costa Corrado, Riccobene Giorgio, Tamburini Cristian, Lefevre Dominique, Gojak Carl, Poulain Pierre-Marie, Favali Paolo, Griffa Annalisa, Purser Autun, Cline Danelle, Edgington Duane, Navarro Joan, Stefanni Sergio, Company Joan Batista, D'Hondt Steve, Priede Imants G., Rountree Rodney. 2019.** New high-tech flexible networks for the future monitoring of deep-sea ecosystems. *Environmental Science & Technology* 53(12): 6616-6631.
- Rountree, R., Burchard, K.A., Goudey, C.A., Mouy, X. and Juanes, F. 2019.** July. Passive acoustic monitoring of haddock in the Gulf of Maine: Preliminary results. *In Proceedings of Meetings on Acoustics 5ENAF* 37(1):070011. *Acoustical*

Society of America.

- Rountree, Rodney A., Francis Juanes and Marta Bolgan.** 2020. Temperate freshwater soundscapes: A cacophony of undescribed biological sounds now threatened by anthropogenic noise. *PLoS ONE* 15(3): e0221842. <https://doi.org/10.1371/journal.pone.0221842>
- Rountree, R.A. and Juanes, F.,** 2020. Potential for use of passive acoustic monitoring of piranhas in the Pacaya-Samiria National Reserve in Peru. *Freshwater Biology*, 65(1):55-65. <https://doi.org/10.1111/fwb.13185>
- Riera, A., Rountree, R. A., Agagnier, L. And Juanes, F.** 2020. Sablefish (*Anoplopoma fimbria*) produce high frequency rasp sounds with frequency modulation. *The Journal of the Acoustical Society of America*, 147(4), pp.2295-2301.
- Aguzzi, J., Chatzievangelou, D., Thomsen, L., Marini, S., Bonofiglio, F., Juanes, F., Rountree, R., Berry, A., Chumbinho, R., Lordan, C. and Doyle, J.,** 2020. The potential of video imagery from worldwide cabled observatory networks to provide information supporting fish-stock and biodiversity assessment. *ICES Journal of Marine Science*, fsaa169, <https://doi.org/10.1093/icesjms/fsaa169>
- Rodney A. Rountree, Jacopo Aguzzi, Simone Marini, Emanuela Fanelli, Fabio C. De Leo, Joaquin Del Rio and Francis Juanes.** 2020. Towards an Optimal Design for Ecosystem Level Ocean Observatories. *Oceanography and Marine Biology - An Annual Review* Vol. 58:76-106.
- Declan McIntosh, Tunai Porto Marques, Alexandra Branzan Albu, Rodney Rountree, and Fabio De Leo.** 2020. Movement Tracks for the Automatic Detection of Fish Behavior in Videos. *Tackling Climate Change with Machine Learning Workshop at the 34th Conference on Neural Information Processing Systems (NeurIPS 2020)*.
- Raick, X., Rountree, R., Kurchevski, G., Juanes, F., Huby, A., Godinho, A.L. and Parmentier, É.,** 2020. Acoustic homogeneity in the piranha *Serrasalmus maculatus*. *Journal of Fish Biology*.

Rountree, Rodney A., Francis Juanes and Marta Bolgan. (In prep). Air movement sounds in fishes may be more important than previously assumed. *Reviews in Fish Biology and Fisheries*

ABSTRACTS AND REPORTS

Rountree, R.A. 1982. The use of high-voltage photography as a technique for detecting subsurface electrical inhomogeneities in materials. *Journal Elisha Mitchell Scientific Society* 98(4):217 (abstract).

Rountree, R.A. 1983. The use of high-voltage photography for materials testing. II. Distinguishing materials irrespective of surface phenomena. *Journal Elisha Mitchell Scientific Society* 99(4):163 (abstract).

Rountree, R.A. 1983. The Ecology of *Stomolophus meleagris* and its fish symbionts. *Journal Elisha Mitchell Scientific Society* 99(4):172 (abstract).

Rountree, R.A. 1983. Review of the parasites and other symbionts of Cnidarians, especially scyphozoans, including a list of parasites of all known fish symbionts of medusae. Unpublished Report

Rountree, R.A. 1987. Ecology of the association of fishes with fish aggregation devices (FADs): Importance of structural complexity, with a discussion of the association of fishes with drift materials. MS Thesis, College of Charleston, South Carolina. U.M.I. #MAI-1333393. 176 p.

Rountree, R.A. 1992. Fish and macroinvertebrate community structure and habitat use patterns in salt marsh creeks of southern New Jersey, with a discussion of marsh carbon export. Ph.D. Dissertation, Rutgers, The State University of New Jersey. New Brunswick. U.M.I. #DAI-9232951. 292 p.

Rountree, R.A., K.J. Smith, and K.W. Able. 1992. Length frequency data for fishes and turtles from polyhaline subtidal and intertidal marsh creeks in southern New Jersey. Rutgers University, Institute of Marine and Coastal Sciences Technical Report No. 92-34.

Rountree, R.A., and M.J. Fogarty. 1993. Spatial, temporal and

predator-prey size patterns of cannibalism by silver hake. International Council For the Exploration of the Sea, Demersal Fish Committee, C.M. 1993/G:37. 12 pp.

- Bejda, A., J. Boreman, W. Morse, D. Mountain, R. Rountree, G. Shepherd, A. Studholme, and S. Wilk.** 1996. Multispecies Interactions in Coastal Waters of the Northeast U.S., A research proposal for the James J. Howard Marine Sciences Laboratory, Northeast Fisheries Science Center, National Marine Fisheries Service. NEFSC Working paper.
- Able, K.W., A. Kustka, D.A. Witting, K.J. Smith, R.A. Rountree and R. McBride.** 1997. Fishes of Great Bay, New Jersey: Larvae and Juveniles Collected by Nightlighting. Technical Report, Institute of Marine and Coastal Sciences, Rutgers, The State University of New Jersey, New Brunswick, N.J. 08903. 30 p.
- Rountree, R.A. and G.R. Sedberry.** 1998. A preliminary model of shoaling behavior based on visual field overlap patterns. Pages 57-60 IN: MacKinlay, D.D., and D. Houlihan. (eds.). Fish Feeding Ecology and Digestion: Gutshop '98. International Congress on the Biology of Fish, Towson University, Baltimore MD, July 27-30, 1998. Physiology Section, American Fisheries Society. Don MacKinlay, SEP DFO, 555 West Hastings St. Vancouver BC V6B 5G3, Canada. (Extended Abstract).
- Almeida, F., M. Fogarty, M. Grosslein, B. Kaminer, J. Link, W. Michaels, and R. Rountree.** 1999. Georges Bank predation study: report of the 1994-96 field seasons. Northeast Fish. Sci. Cent. Ref. Doc. 99-06. 58 p.
- Rountree, R.A., D. Borkman, W. Brown, Y. Fan, L. Goodman, B. Howes, B. Rothschild, M. Sundermeyer, and J. Turner.** 2003. Framework for Formulating the Mt. Hope Bay Natural Laboratory: A synthesis and Summary. School for Marine Science and Technology Technical Report No. SMAST-03-0501. 306 pp. Pdf Available online at: <http://www.smast.umassd.edu/MHBNL/report2003.php>
- Rountree, R.A.** 2003. Chapter 1. Introduction. Pages 1-12 In: Rountree, R.A., D. Borkman, W. Brown, Y. Fan, L. Goodman, B. Howes, B. Rothschild, M. Sundermeyer, and J. Turner. Framework for Formulating the Mt. Hope Bay Natural

Laboratory: A synthesis and Summary. School for Marine Science and Technology Technical Report No. SMAST-03-0501. 306 pp. <http://www.smast.umassd.edu/MHBNL/report2003.php>

Howes, B., M. Sundermeyer and R. Rountree. 2003. Chapter 3. Habitats and habitat quality. Pages 57-97 In: Rountree, R.A., D. Borkman, W. Brown, Y. Fan, L. Goodman, B. Howes, B. Rothschild, M. Sundermeyer, and J. Turner. Framework for Formulating the Mt. Hope Bay Natural Laboratory: A synthesis and Summary. School for Marine Science and Technology Technical Report No. SMAST-03-0501. 306 pp. <http://www.smast.umassd.edu/MHBNL/report2003.php>

Borkman, D., J. Turner and R. Rountree. 2003. Chapter 5. Nekton. Pages 126-161. In: Rountree, R.A., D. Borkman, W. Brown, Y. Fan, L. Goodman, B. Howes, B. Rothschild, M. Sundermeyer, and J. Turner. Framework for Formulating the Mt. Hope Bay Natural Laboratory: A synthesis and Summary. School for Marine Science and Technology Technical Report No. SMAST-03-0501. 306 pp. <http://www.smast.umassd.edu/MHBNL/report2003.php>

Rountree, R.A. 2003. Chapter 7. Summary and Conclusions. Pages 190-206 In: Rountree, R.A., D. Borkman, W. Brown, Y. Fan, L. Goodman, B. Howes, B. Rothschild, M. Sundermeyer, and J. Turner. Framework for Formulating the Mt. Hope Bay Natural Laboratory: A synthesis and Summary. School for Marine Science and Technology Technical Report No. SMAST-03-0501. 306 pp. <http://www.smast.umassd.edu/MHBNL/report2003.php>

Rountree, R.A., C. Goudey, T. Hawkins, J. Luczkovich and D. Mann. 2003. Listening to Fish: Passive Acoustic Applications in Marine Fisheries. Sea Grant Digital Oceans. Massachusetts Institute of Technology Sea Grant College Program. MITSG 0301. 36 p. <http://web.mit.edu/seagrant/aqua/cfer/acoustics/PD9x9FINAL.pdf>

Rountree, R.A., C. Goudey, and T. Hawkins. Editors. 2003. Listening to Fish: Proceedings of the International Workshop on the Applications of Passive Acoustics to Fisheries. April 8-10, 2002. Dedham, MA. MIT Sea Grant Technical Report MITSG 03-2.

Rountree, R.A., F. Juanes, and J.E. Blue. 2003a. Soniferous

Fishes of Massachusetts. Pages 77-84 In: Rountree, R.A., C. Goudey and T. Hawkins (eds). Listening to Fish: Proceedings of the International Workshop on the Applications of Passive Acoustics to Fisheries. April 8-10, 2002. Dedham, MA. MIT Sea Grant Technical Report MITSG 03-2.

Rountree, R.A., F. Juanes, and J.E. Blue. 2003b. Potential for the use of Remotely Operated Vehicles (ROVs) as a platform for passive acoustics. Pages 138-146 In: Rountree, R.A., C. Goudey and T. Hawkins (eds). Listening to Fish: Proceedings of the International Workshop on the Applications of Passive Acoustics to Fisheries. April 8-10, 2002. Dedham, MA. MIT Sea Grant Technical Report MITSG 03-2.

Anderson, K.A., R.R. Rountree, and F. Juanes. 2004. The Distribution and Behavior of Soniferous Fishes in the Hudson River: Focusing on Striped Cusk-eel, *Ophidium marginatum*. Section VI: 31 pp. In J.R. Waldman, W.C. Nieder (eds.), Final Reports of the Tibor T. Polgar Fellowship Program, 2003. Hudson River Foundation.

Anderson, K.A., R.A. Rountree, and F. Juanes. 2005. Soniferous Fishes in tidal freshwater Tivoli Bay of the Hudson River. Section VI: 25 pp. In J.R. Waldman, W.C. Nieder (eds.), Final Reports of the Tibor T. Polgar Fellowship Program, 2004. Hudson River Foundation.

Rountree, R.A., R. Kessler, D. Jones, D. Martins, and F. Bub. 2004. The High-Resolution Industry-Based Trawl Survey: Methods and Working Data. School for Marine Science and Technology, UMass Dartmouth, Technical Report No. SMAST-05-0301. 93 p.

Rountree, R.A., R. Kessler, D. Jones, D. Martins, and F. Bub. 2005. The High-Resolution Industry-Based Trawl Survey Data Report. School for Marine Science and Technology, UMass Dartmouth, Technical Report No. SMAST-05-0302. 461 p.

Gröger, J.P., R.A. Rountree, U.H. Thygesen, D. Jones, D. Martins, Q. Xu and B. Rothschild. 2005. Geolocation of Cape Cod Bay Cod using tidal information. *ICES CM* 2005/Z:10. pp 31.

Sakas, C.J., C. Goudey and R.A. Rountree. 2005. Sanctuary Sounds - Monitoring underwater sounds in the National Marine

Sanctuaries. *Oceans* 2005 MTS/IEEE

- Gröger, J.P., and R.A. Rountree.** 2006. A fish population framework to control multispecies, multistock, and/or multiarea fisheries for medium to long-term management purposes. *ICES SGMA* 2006.
- Rountree, R.A., J.P. Gröger, and D. Martins.** 2006. Extraction of daily activity pattern and vertical migration behavior from the benthic fish, *Lophius americanus*, based on depth analysis from data storage tags. *ICES CM* 2006/Q:01
- Rountree, R.A., and D. Witting.** 2006. Spatial and temporal patterns of the fish assemblages in the greater Narragansett Bay system: is Mt. Hope Bay different? Pp. 23. *In: MacDonald, D., and R.A. Rountree (eds). Natural and Anthropogenic Influences on the Mount Hope Bay Ecosystem. Northeast Naturalist* 13(4):23.
- Zhao, L., L. Goodman, C. Chen, B. Rothschild, and R. Rountree.** 2006. Simulating the effects of the heated water discharges from Brayton Point Power Station to Mount Hope Bay in finite volume coastal model. Pp. 26. *In: MacDonald, D., and R.A. Rountree (eds). Natural and Anthropogenic Influences on the Mount Hope Bay Ecosystem. Northeast Naturalist* 13(4):26.
- ACT.** 2007. Underwater Passive Acoustic Monitoring for Remote Regions. A workshop of research scientists, technology developers, and resource managers. Hawaii Institute of Marine Biology, Coconut Island, Hawaii, Feb. 7-9, 2007. Alliance for Coastal Technologies Ref. No. ACT-07-02. <http://www.act-us.info>
- Van Parijs, S. and B. Southall.** 2007. Report of the 2006 NOAA National Passive Acoustics Workshop. Developing a strategic program plan for NOAA's Passive Acoustics Ocean Observing System (PAOOS). Woods Hole, MA, 11-13 April 2006. NOAA NMFS <http://www.nefsc.noaa.gov/nefsc/publications/tm/tmspo76.pdf>
- Rountree, R.A.** 2007. Listening to Fish: New Discoveries in Science. E-book for kids grades 5-12 and adults. Free download at: <http://www.fishecology.org>

- Rountree, R.A.** 2009. Biology of Atlantic Wolffish and Cusk: implications for the Stellwagen Bank National Marine Sanctuary's function as an effective MPA. Invited talk, Stellwagen Bank National Marine Sanctuary Advisory Board meeting, 14 May 2009.
- Anderson, K., W. Roumillat, R. Rountree, and F. Juanes.** 2010. Staging haddock *Melanogrammus aeglefinus* L. ovaries: Implications for maturity indices, estimation of daily spawning timing and field sampling practices. Pages 240-243 in Wyanski, D.M. and Brown-Peterson, N.J. (Eds.) Proceedings of the 4th Workshop on Gonadal Histology of Fishes. El Puerto de Santa Maria, Spain.
<http://hdl.handle.net/10261/24937>.
- Rountree, R., Sinelnikov, Y. and Sutin, A.,** 2011. Passive acoustic fish location with a 3-D fixed array. The Journal of the Acoustical Society of America. 130(4): 2499-2499. Abstract #2499. Session 4aAB Animal Bioacoustics: Long-Term Acoustic Monitoring of Animals, 162 Annual Meeting of the American Acoustical Society, San Diego, CA.
- Rountree, R.A.** 2012. Listening to Fish Sounds in the Amazon. Biodiversity Science Issue 5.
<http://www.biodiversityscience.com/2012/01/31/fish-sounds-in-the-amazon/>
- Sousa-Lima, R.S. R.A. Rountree, M.R.M. Brito, I.M. Carletti, V.M.F. da Silva.** 2013. Invisible yet detectable: wild Amazonian Manatees (*Trichechus inuquis*) can be monitored by passive acoustics. XI Congresso de Ecologia do Brasil & I Congresso Internacional de Ecologia, Porto Seguro, Brasil; 09/2013
- Juanes, F., and R.A. Rountree.** 2016. COMMUNICATION: The potential use of visual and acoustic sensors for early detection of invasions. Pages 10-11 In: E. Dopico and Y. Borrell (Ed.). ALERTTOOLS Workshop: Science & Educational Strategies for Early Detection of Bioinvaders. Ediciones de la Universidad de Oviedo: Universidad de Oviedo. ISBN: 987-84-16664-34-4

Riera, A., Rountree, R.A., Mouy, X., Ford, J.K. and Juanes, F.,
2016. Effects of anthropogenic noise on fishes at the SGaan
Kinghlas-Bowie Seamount Marine Protected Area. In:
Proceedings of Meetings on Acoustics 4ENAL (Vol. 27, No. 1,
p. 010005). ASA.

SELECTED MEDIA EVENTS:

"*Under the Sea - Sotto Voce no more*" by Lori Valigra in the 8
November 2001 issue of The Christian Science Monitor. Can
be viewed in the archive section of the CSM web page at
[http://www.csmonitor.com/cgi-
bin/getasciarchive?script/2001/11/08/p16s1.txt](http://www.csmonitor.com/cgi-bin/getasciarchive?script/2001/11/08/p16s1.txt)
Brief description of current research on soniferous fishes,
including my cusk-eel work.

"*Rime of the Modern Mariner*" by Josie Calausiusz in the January
2002 issue of Discover Magazine (Discover 23(1):14). A
copy can be viewed online at: <http://www.discover.com>.
Focus on my research on soniferous fishes.

"*Vocal fishes*" Interview by Tracy Hampton for the Cape and
Islands National Public Radio. June 2002.
http://www.wgbh.org/cainan/article?item_id=740968

"*Listening to What Fish Tell Us*" by Tracey Crago, WHOI Sea
Grant,
"Two If By Sea" Newsletter (Fall 2002, Vol. 6 No. 2.).
[http://web.mit.edu/seagrant/pubs/2ifbysea/issues/fall02/tc.
html](http://web.mit.edu/seagrant/pubs/2ifbysea/issues/fall02/tc.html)

"*Scientists find fish like to sound off for many reasons*" by
James Kinsella, 7 November 2002. The Cape Cod Times. Story
about fish sounds on Cape Cod.

"*Local "Chatterfish" identified*" News article in the Block
Island Times. By Rob Davenport. March 29, 2003.
<http://www.blockislandtimes.com/news/2003/0329/news/034.htm>
1

"*B.I.'s 'Chatterfish' Mystery Solved*" Curious boater solves
conundrum of strange clicking sounds heard in Great Salt

Pond" by Greg Coppa. Soundings, the Nation's Boating Newspaper July, 2003 p. 13,18. Describes my work with vocal fishes and especially the striped cusk-eel.

"*SMAST Mount Hope Bay study update scheduled March 26*" by Maeve Hickok. University of Massachusetts at Dartmouth Press release.
http://www.umassd.edu/communications/articles/showarticles.cfm?a_key=230

"*Listen up and learn what fish have to say*". by Eric Williams. March 23, 2005 issue of the Cape Cod Times. Newspaper coverage of my "Ocean Treasures" lecture at the Cape Cod Museum of Natural History, Brewster, MA.

"*Listening to Fish*" Interview on "*The Point*" with Mindy Todd, the Cape and Islands Public Broadcasting Station. 11 May 2005.

"Can New England create a conservation legacy as enduring as its fishing heritage?" story by Carol Gardner in BluePlanet Magazine, Spring 2005. Available online at the Ocean Conservancy web page: <http://www.oceanconservancy.org>

"*Sounds Fishy*," by Maria Ferri. Cape Cod Magazine April 2006.

"*High-resolution industry-based trawl survey*" by Chis Weiner in: *Collaborations*, a report on collaborative research projects in the northwest Atlantic Ocean. April 2006. Available at: <http://www.namanet.org/Collaborations.php>

"*Rhode Island Collections: URI Marine Animal Sounds in the Macaulay Library's Marine Collection*" by Robert D. Kenney. Rhode Island Naturalist 13(1):19-21. Summer 2006. Available at: <http://www.uri.edu/ce/rinhs/pdfs/ri-naturalist-summer06.pdf>

"*Smart stuff with Twig Walkingstick: Wet, wild fish sounds*" by Kurt Knebusch, North Texas e-News. July 15, 2007. <http://www.ntxe-news.com>

"*Listening for those sounds from the deep*" by Rich Eldred. The Cape Codder, August 02, 2007. Available at: <http://www.townonline.com/brewster/homepage/x225115044>

"Rodney Rountree is learning how to track different species of fish by keeping his ear to the ocean" excerpted from the Cape Codder, Rich Eldrid, 2 Aug. 2007. University of Massachusetts at Amherst, College of Natural Resources and the Environment, blog site.
<http://216.122.128.205/nre/blog/news?art=896&prog=0&dept=0&fac=0&sort=date>

"Subsurface Noise" by Michael Symes, Science Editor. X-Ray Magazine 19:50-52. September 2007. http://www.xxray-mag.com/pdfs/xray19/x-ray19_part3.pdf

"What's Making That Awful Racket? Surprisingly, It May Be Fish" by Nonny de la Penna. NY Times 8 April 2008. Science section article citing recent research by several scientists, including myself, working in the field of passive acoustics.
http://www.nytimes.com/2008/04/08/science/08fish.html?_r=1&ex=1208318400&en=c81b1195b68e2f90&ei=5070&emc=eta1

The story was also picked up on Comedy Central and one of my sound clips (striped cusk-eel) was played to a national audience on the Colbert Report on April 10, 2008. It appears at about 22 s on the episode
[TIP/WAG - RAIN](#)

"Plumbing depths for fish sounds" by Andrea Cohen. MIT and WHOI Sea Grant Program Newsletter, Two if by Sea 9(2):4. Reported on my research findings of deep sea fish sounds.

"Fish Sounds with Rodney Rountree" on The Point with Mindy Todd, Cape and Islands National Public Radio, August 15, 2011. Listen to the podcast at: <http://www.wgbh.org/programs/The-Point-298/episodes/Fish-Sounds-30975>

Under Sea Sounds, Interview on the PBS show "Connecting Point" with Carrie Saldo. WGBY 57, Springfield, MA. Aired on May 8, 2012. Watch video of broadcast at:
<http://vimeo.com/41846332>

How Fish Noises Can Help Manage Species, By Beenish Ahmed on "The Morning Edition" WBUR 90.9 radio. Aired May 16, 2012. Read transcript and listen to the story at:
<http://www.wbur.org/2012/05/16/fish-sounds>

"Acústica pasiva y sonidos de peces de la Amazonía - Rodney Rountree" Interview in Revista Pirañamania - Volumen 5, March 2013. <http://www.mundopiranha.com/piranhamania5.pdf>

"'Bubble curtains' guard fish from hammering sound waves"
By Michael Risinit, The (Westchester County, N.Y.) Journal News
25 December 2013.
<https://www.usatoday.com/story/news/nation/2013/12/25/tappan-zee-bubble-curtains-guard-fish>

"Spreading the word about fish sounds" and seven other youtube video interviews with [Conversationworks](#) 11 April 2016.
Watch at: <https://www.youtube.com/playlist?list=PLRo1GzpR-VzaQlNNi4Uu6tRyk0BC8GNM9>

"Singing Fish Reveal Underwater Battles in the Amazon" By Christopher Intagliata on November 8, 2018, Scientific American Biology 60-Second Science podcast.
Listen at: <https://www.scientificamerican.com/podcast/episode/singing-fish-reveal-underwater-battles-in-the-amazon>

"Barking piranhas and screeching catfish are the sounds of the Amazon River" by Bob McDonald host of Quirks & Quarks, CBC Radio Posted: Nov 09, 2018 3:32 PM ET
Listen at: <https://www.cbc.ca/radio/quirks/barking-piranhas-and-screeching-catfish-are-the-sounds-of-the-amazon-river-1.4897319?>

"Fish Noises Help Scientists Locate, Understand Them" By Elsa Partan & Heather Goldstone, Cape, Coast and Islands National Public Radio, Living Lab Radio podcast, Dec 10, 2018
Listen at: <https://www.capeandislands.org/post/fish-noises-help-scientists-locate-understand-them?>

"Wait, fish make noise? Meet the 'fish listeners.'"
By Eva Botkin-Kowacki Staff writer
Rebecca Asoulin Audio producer
Part V of the podcast series "Peering into the Deep: Discoveries Beneath the Waves" Christian Science Monitor, August 29, 2019
<https://www.csmonitor.com/Environment/2019/0829/Wait-fish-make-noise-Meet-the-fish-listeners>

"What do small Minnesota lakes sound like?" By Weiting, Great Lakes Echo, December 10, 2019

<http://greatlakesecho.org/2019/12/10/what-do-small-minnesota-lakes-sound-like>

"Scientists discover cacophony of fish 'farts, burps and coughs'" UVic News 7 April 2020

<https://www.uvic.ca/news/topics/2020+fish-farts-francisjuanes+media-release?>

"Piranhas: Toothy Nippers With a Bad Reputation" 12 May 2020.

HowStuffWorks.com. by [Jesslyn Shields](#)
<https://animals.howstuffworks.com/fish/piranha.htm>

"Could Listening to the Deep Sea Help Save It? In the abyss, everyone can hear you scream". By Sabrina Imbler. The New York Times Nov. 10, 2020

<https://www.nytimes.com/2020/11/10/science/deep-sea-marine-biology-acoustics.html>

*****"The Fish Listener"**, by Kelley Freund, Images by Gatley Williams. The College Today 23 November 2020. I was honored with a profile in the alumni magazine of the College of Charleston where I received my MS in Marine Biology.

<https://today.cofc.edu/2020/11/23/rodney-rountree-the-fish-listener>

"Scientists using fish farts to track species, learn how fish in Okanagan Lake communicate" by Carli Berry. Kelowna News 14 February 2021. <https://infotel.ca/newsitem/scientists-using-fish-farts-to-track-species-learn-how-fish-in-okanagan-lake-communicate/it80764>

There have been well over 100 web sites and blogs that have posted information related to my deep-sea fish sounds studies, a few are listed here:

"UMass Amherst Ecologists among the First to Record and Study Deep-sea Fish Noises" UMass Amherst Press Release by Janet Lathrop.

<http://www.umass.edu/newsoffice/newsreleases/articles/145365.php>

Scientific American: 60 Second Podcast "Deep Sea Is Alive with Sound" Scientists share the first-ever recordings of deep-

sea species. Sarah Fecht reports

<http://www.scientificamerican.com/podcast/episode.cfm?id=deep-sea-is-alive-with-sound-12-02-10#comments>

NewScientist: "First recording of deep-water fish chat" by
Melissae Fellet

<http://www.newscientist.com/article/dn21406-first-recording-of-deepwater-fish-chat.html>

LiveScience: "First Recording of Deep-Sea Fish Reveals Grunts &
Quacks" by Joseph Castro (with video)

<http://www.livescience.com/18157-deep-sea-fish-sounds.html>

Fox News:

<http://www.foxnews.com/scitech/2012/01/30/first-recording-deep-sea-fish-reveals-grunts-quacks>

Yahoo News: Trending Now - "Scientists Capture the Sounds of
Deep-Sea Fish for First Time Ever" By Melissa Knowles

<http://news.yahoo.com/blogs/trending-now/scientists-capture-sounds-deep-sea-fish-first-time-170507841.html>

Science News:

http://www.upi.com/Science_News/2012/01/26/Study-records-deep-sea-fish-sounds/UPI-21301327617996/

Maritime Reporter: "UMass Research on Deep-Sea Fish Noise"

<http://www.marinelink.com/news/research-deepsea-umass342255.aspx>

Science Daily: "Ecologists Capture First Deep-Sea Fish Noises"

<http://www.sciencedaily.com/releases/2012/01/120126142908.htm>

Futura-Sciences (French website): "Océan : écoutez des sons
enregistrés à 642 mètres de profondeur" Par Quentin Mauguit

http://www.futura-sciences.com/fr/news/t/oceanographie-1/d/ocean-ecoutez-des-sons-enregistres-a-642-metres-de-profondeur_36355/

The Daily Collegian (University of Massachusetts Newspaper): "UM
researchers found fish capable of communication through a form
of talking" By: Claire Anderson

<http://dailycollegian.com/2012/02/16/um-researchers-found-fish-capable-of-communication-through-a-form-of-talking/>

"Fishy chatter - Scientists record unidentified noises in the

deep sea" By Stephen Ornes in *ScienceNews for Kids*, March 6, 2012. <http://www.sciencenewsforkids.org/2012/03/fishy-chatter/>

Other media:

PUBLISHED PHOTOGRAPHS

Cannonball jellyfish, *Stomolophus meleagris*. 2001. P. 218. In: *Dangerous Wildlife in the Southeast*. F. Lynne Bachleda. Menasha Ridge Press, Birmingham, AL. 321 p.

Cannonball jellyfish, *Stomolophus meleagris*. 2001. P. 188. In: *Dangerous Wildlife in the Mid-Atlantic*. F. Lynne Bachleda. Menasha Ridge Press, Birmingham, AL. 305 p.

UNDERGRADUATE STUDENTS

Anderson, Katie A. 2002-2004. Katie graduated from Umass Amherst in 2004.

Summer Intern 2002: Participated in Stellwagen Bank research cruise, collected passive acoustic data from coastal MA, digitized acoustic recordings and processed data files.

Directed Individual Study: Characterization of calls produced by the striped cusk-eel, *Ophidion marginatum*, in New Bedford Harbor, Massachusetts. Co-advised by Francis Juanes.

Tibor T. Polgar Fellowship, Hudson River Foundation, 2003. "The distribution and behavior of soniferous fishes in the Hudson River".

Tibor T. Polgar Fellowship, Hudson River Foundation, 2004. "Soniferous fishes in tidal freshwater Tivoli Bay of the Hudson River".

Anderson, K.A., R.A. Rountree and F. Juanes. 2008. Soniferous fishes in the Hudson River. *Transactions of the American Fisheries Society* 137(2):616-626.

GRADUATE STUDENTS

O'Brien, Todd. 1993-1994. Masters of Science completed 1994. Boston University Marine Program, Marine Biological Laboratory, Woods Hole, MA 02543. "The effects of nutrient loading on Waquoit Bay Estuarine Fish Populations." Dr. Ivan Valiela, Major Advisor.

Scharf, Frederick S. 1995-1997. Masters of Science completed September 1987, in Department of Forestry and Wildlife Management, University of Massachusetts, Amherst, MA 01003-4210, "Predator Size-Prey Size Relationships and Predator Dynamics of Marine Fish on the Northeast continental Shelf." Dr. Francis Juanes, Major Advisor.

Papers:

Scharf, F.S., F. Juanes, and M. Sutherland. 1998. Inferring ecological relationships from the edges of scatter diagrams: comparison of regression techniques. *Ecology* 79(2): 448-460.

Scharf, F.S., R.M. Yetter, A.P. Summers, and F. Juanes. 1998. Enhancing diet analyzes of piscivorous fishes in the Northwest Atlantic through identification and reconstruction of original prey sizes from ingested remains. *Fishery Bulletin* 96: 575-588.

Scharf, F.S., F. Juanes, and R.A. Rountree. 2000. Predator size-prey size relationships of marine fish predators: interspecific variation and the effects of ontogeny and body size on trophic niche breadth. *Marine Ecology Progress Series* Vol. 208:229-248.

Hanrahan, Brian. 1996-1999. Master of Science Candidate, Department of Forestry and Wildlife Management, University of Massachusetts, Amherst, MA 01003-4210. Thesis: "School structure and individual feeding behavior of bluefin tuna (*Thunnus thynnus*).\" Dr. Francis Juanes, Major Advisor.

Papers:

Hanrahan, B., and F. Juanes. 2001. Estimating the number of fish in Atlantic bluefin tuna (*Thunnus thynnus thynnus*) schools, using models derived from captive school

observations. Fishery Bulletin 99(3):420-431.

Baker, Ronald. 2006. Doctoral Candidate at James Cook University, Australia. I am an external reviewer for his dissertation entitled: "Piscivory and the functioning of shallow tropical estuarine nursery grounds."

Pappal, Adrienne. 2003-2006. Masters of Science Candidate, School for Marine Science and Technology, University of Massachusetts, Dartmouth. "Cobble habitat preferences of age-0 and age-1 winter flounder, *Pseudopleuronectes americanus*; and comparison of laboratory observation techniques" May 2006.

Papers:

Pappal, Adrienne L., D.G. MacDonald and R.A. Rountree. 2009. Evidence of cobble habitat preference in age-0 winter flounder, *Pseudopleuronectes americanus*. *Marine and Freshwater Behavior and Physiology* 42(1):43-53.

Pappel, A.L., R.A. Rountree and D.G. MacDonald. 2012. Relationship between body size and habitat complexity preference in age-0 and -1 year winter flounder *Pseudopleuronectes americanus*. *Journal of Fish Biology* 81(1):220-229.

Anderson, Katie A. 2004-2011. Masters of Science Candidate, Department of Natural Resource Conservation, University of Massachusetts, Amherst, MA. Anderson, Katie A., "Reproductive maturation and diel reproductive periodicity in western Gulf of Maine haddock" (). Masters Theses. Paper 659. <http://scholarworks.umass.edu/theses/659>

Papers:

Anderson, K., W. Roumillat, R. Rountree, and F. Juanes. 2010. Staging haddock *Melanogrammus aeglefinus* L. ovaries: Implications for maturity indices, estimation of daily spawning timing and field sampling practices. Pages 240-243 in Wyanski, D.M. and Brown-Peterson, N.J. (Eds.) Proceedings of the 4th Workshop on Gonadal Histology of Fishes. El Puerto de Santa Maria, Spain. <http://hdl.handle.net/10261/24937>.

Burchard, K.A., F. Juanes, R.A. Rountree, and W. Roumillat. 2013. Staging ovaries of Haddock (*Melanogrammus aeglefinus*): implications for maturity indices and field sampling practices. *Fishery Bulletin* 111(1):90-106.

Burchard, K.A., F. Juanes, and R.A. Rountree. 2014. Diel reproductive periodicity of *Melanogrammus aeglefinus* in the southwestern Gulf of Maine. *Transactions of the American Fisheries Society*. 143(2):451-466.

Mouy, Xavier. 2016 - present. Ph.D. candidate in Earth and Ocean Sciences University of Victoria, Victoria, Canada. Thesis: Fish bioacoustics: characterization of fish sounds and effect of noise on fish.

Papers:

Mouy, X., Rountree, R., Juanes, F. and Dosso, S.E., 2018. Cataloging fish sounds in the wild using combined acoustic and video recordings. *The Journal of the Acoustical Society of America* 143(5): EL333-EL339.

HONORS AND FELLOWSHIPS

Thomas Noble Memorial Award, West Carteret High School, 1979.
Given to student with a high potential for a career in the sciences.

Morehead City Woman's Club Scholarship, West Carteret High School, 1979.

Research Fellowship, University of North Carolina at Wilmington, 1981-2. The use of high-voltage photography as a technique for detecting subsurface electrical inhomogeneities in materials.

Research Fellowship, University of North Carolina at Wilmington, 1982-3. The ecology of *Stomolophus meleagris*, the cannonball jellyfish, and its symbionts, with special emphasis on behavior.

Media and Board Publication Scholarship, Univ. of North Carolina at Wilmington, 1983. For work as Editor of the *Journal of Undergraduate Research in the Sciences: Forum*.

Who's Who Among Students in American Universities and Colleges, 1983.

First Place - John Bowley Derieux Research Award - For best student paper in Physics. Collegiate and Senior Academy of the North Carolina Academy of Sciences, 1982.

Second Place - John Bowley Derieux Research Award - For best student paper in Biology. Collegiate and Senior Academy of the North Carolina Academy of Sciences, 1983.

Manasquan Marlin and Tuna Club, Fisheries Research Scholarship, 1987-1992.

Andrew J. Boehm Fellowship, American Fishing Tackle Manufacturers Association. 1989-1990.

United States Department of Commerce, NOAA, NMFS, Award for a **Commendable Job performance** during 1993.

United States Department of Commerce, NOAA, NMFS, Award for an **Outstanding Job performance** during 1994 and 1995.

GRANTS

John Yarborough Memorial Undergraduate Research Grant, Collegiate Academy of the North Carolina Academy of Sciences (CANCAS), 1981. The use of high-voltage photography as a technique for detecting subsurface electrical inhomogeneities in materials.

John Yarborough Memorial Undergraduate Research Grant, CANCAS, 1982. The use of high-voltage photography for materials testing. II. Distinguishing materials irrespective of surface phenomena.

John Yarborough Memorial Undergraduate Research Grant, CANCAS, 1982. The ecology of *Stomolophus meleagris*, the cannonball jellyfish, and its symbionts, with special emphasis on behavior.

Slocum-Lunz Foundation, Inc., 1984. Ecological importance of the use of floating and submerged objects by pelagic fishes.

(\$3600)

The Agricultural Society of South Carolina, 1984. Ecological importance of the use of floating and submerged objects by pelagic fishes. (\$800)

South Carolina Sea Grant Consortium, 1985. Ecological importance of the use of floating and submerged objects by pelagic fishes - equipment request. (\$800)

Slocum-Lunz Foundation, Inc. 1985-1986; Rountree, R.A., J.W. Hayse and K.F. Page. Establishment of the Graduate Student Association of the College of Charleston - Student Travel Fund. (\$3500)

Leathem-Stauber-Steinetz Fund, Rutgers University, 1987. Fish use of the estuary: importance of marsh creeks and selected microhabitats within the *Spartina alterniflora* marsh system. (\$1200)

Manasquan Marlin and Tuna Club, Fisheries Research Scholarship, 1987-1992. Utilization of tidal salt marsh creeks by New Jersey finfishes. (\$5000)

Leathem-Stauber-Steinetz Fund, Rutgers University, 1988. Utilization of tidal marsh creeks by fishes in the Great Bay Estuary of New Jersey. (\$1400)

New Jersey Marine Sciences Consortium - Minigrant, 1988. Fish utilization of salt marsh creeks in New Jersey: residence period and standing stock of summer flounder. (\$2200)

Leathem-Stauber-Steinetz Fund, Rutgers University, 1989. Utilization of salt marsh creeks by fishes: role of tidal migration of fishes in salt marsh energetics. (\$2000)

Graduate Student Research Fund, Marine Field Station, Center for Coastal and Environmental Studies, Rutgers University, 1989. Utilization of salt marsh creeks by fishes: energy flow in coastal ecosystems. (\$900)

Lerner-Gray Fund for Marine Research, American Museum of Natural History. 1989. Utilization of salt marsh creeks by fishes: energy flow in coastal ecosystems. (\$500)

- Sport Fishing Institute Fund. 1989. Utilization of salt marsh creeks by fishes: energy flow in coastal ecosystems. (\$2500)
- Andrew J. Boehm Fellowship, American Fishing Tackle Manufacturers Association. 1989-1990. Utilization of salt marsh creeks by fishes: energy flow in coastal ecosystems. (\$6986)
- Graduate Student Research Fund, Marine Field Station, Center for Coastal and Environmental Studies, Rutgers University, 1991. Fauna of polyhaline marsh creeks in southern New Jersey: length frequency data of dominant fauna. (\$1000)
- Marsh Ecology Research Program, 1999. Patterns of ontogenetic shifts in nekton habitat use along a marsh coenocline: Atlantic silverside case study. Rountree, R.A., and F. Juanes (UMASS-Amherst). (\$40,104)
- Woods Hole Sea Grant, 2001. Feasibility of identifying essential fish habitat based on acoustic monitoring of temporal and spatial patterns of sound production. Part 1. Identification of soniferous species in Cape Cod waters. Rountree, R.A. (\$4,585)
- Rhode Island Sea Grant, 2001. Feasibility of rescue of historic data on fish sounds compiled by the University of Rhode Island Narragansett Marine Laboratory during the 1950's, 60's and 70's. Kenney, R. (URI), and R.A. Rountree. (\$2,900)
- The Sounds Conservancy Grants Program. 2001. Survey of the soniferous fishes of Cape Cod. Rountree, R.A. (\$1,000).
- National Undersea Research Program, North Atlantic & Great Lakes, 2001. Identification of soniferous fishes on Stellwagen Bank: validation of their sound production characteristics and association of sounds with specific habitats and behaviors. Rountree, R.A., F. Juanes (UMASS-Amherst), and J. Blue (Leviathan Legacy, Inc., Orlando, Florida). (\$46,053)
- National Undersea Research Program, North Atlantic & Great Lakes, 2002. Identification of soniferous fishes on Stellwagen Bank: validation of their sound production

characteristics and association of sounds with specific habitats and behaviors. Rountree, R.A., F. Juanes (UMASS-Amherst), and J. Blue (Leviathan Legacy, Inc., Orlando, Florida). (\$44,874)

Northeast Consortium Cooperative Research Program. 2002. The identification of Cod and Haddock Spawning Habitat using passive Acoustics. Cliff Goudey (MIT Sea Grant) and Rodney Rountree (SMAST). (\$183,600).

Office of Naval Research. 2002. An International Workshop on the application of passive acoustics in fisheries. Rodney Rountree. (\$10,021)

MIT Sea Grant. 2002. An International Workshop on the application of passive acoustics in fisheries. Rodney Rountree. (\$14,544)

Massachusetts Office of Coastal Zone Management (\$5,000), Rhode Island Sea Grant (\$1,000), MIT Sea Grant College Program (\$2,000), Woods Hole Sea Grant Program (\$2,000), Narragansett Bay Estuary Program (\$1,000), Southeastern Massachusetts Estuary Program (\$1,000). 2003. Natural and Anthropogenic influences on the Mt. Hope Bay Ecosystem. A special Symposium held during the NEERS/SNECAFS Joint Spring Meeting. May 8-10, 2003 in Fairhaven, MA. Rodney Rountree (total \$12,000).

MIT Sea Grant. Development grant. 2004. Evaluation of listening technologies for deep-water fish. Rountree, R.A., F. Juanes and C. Goudey (\$9,950).

MIT Sea Grant. (2005-2006). Use of passive acoustics to determine spawning time and fecundity of haddock. Juanes, F., R. Rountree, and C. Goudey (\$150,000).

New York City Environmental Fund, Hudson River Foundation. 2006. Underwater Soundscape of NY Harbor: Increasing Public Awareness of the Underwater Environment. Drew, C. (The River Project), and R. Rountree. (\$18,000)

Eppley Foundation for Research. 2007-2008. Potential for the use of passive acoustic technologies in aquatic systems of North America - demonstration project in the major river systems of New England. R. Rountree (\$24,397)

MIT Sea Grant (2010-2011). DeepFSL - a low cost bimodal observation system for deep sea ecosystem research. R. Rountree, F. Juanes, and S. Fraiser. (\$96,821)

CONFERENCES, WORKSHOPS AND SYMPOSIA ORGANIZED

Listening to the Fish: An International Workshop on the Applications of Passive Acoustics in Fisheries, April 8-10, 2002 in Dedham, MA. Organizers: Rodney Rountree, SMAST, UMass Dartmouth rrountree@UMassD.Edu; Clifford A. Goudey, Marine Advisory Leader, MIT Sea Grant College Program; and Tony Hawkins, Director of Fisheries Research for Scotland, FRS Marine Laboratory Aberdeen, and Oceanlab, University of Aberdeen Scotland, UK hawkinsad@marlab.ac.uk. Sponsored by: MIT Sea Grant College Program, Office of Naval Research, and National Undersea Research Program. This workshop brought together experts in passive acoustics as it applies to fisheries, marine conservations issues and the identification of essential fish habitats. The 'hands-on' workshop drew over 50 international experts drawn from fisheries, fish biology, acoustics, signal processing, underwater technology and other related fields. Information on this workshop can be found online at: <http://web.mit.edu/seagrant/aqua/cfer/acoustics/index.html>. A brochure and a proceedings are available at: <http://web.mit.edu/seagrant/aqua/cfer/passiveacoustics/passiveacoustics.html>

Reviewed in: Juanes, F. 2002. Listening to fish: an international workshop on the application of passive acoustics in fisheries. Reviews in Fish Biology and Fisheries 12: 105-106.

New England Estuarine Research Society and Southern New England Chapter of the American Fisheries Society Joint Meeting, May 8-10, 2003, Holiday Inn, Fairhaven, MA, Hosted by, University of Massachusetts Dartmouth, School for Marine Science and Technology. R.A. Rountree, B. Howes and Nancy O'Connor, Local Organizers.

Natural and Anthropogenic influences on the Mt. Hope Bay Ecosystem, May 10, 2003, Fairhaven, MA. A special Symposium held during the Joint Meeting of the New England Estuarine

Research Society and the Southern New England Chapter of the American Fisheries Society, and hosted by the School for Marine Science and Technology, University of Massachusetts at Dartmouth. Organized by R.A. Rountree (SMAST), B. Howes (SMAST), and Christopher Kincaid (GSO/URI). Scientists from regional academic and professional institutions came together to present the results of their research within Mt. Hope Bay, including retrospective studies of existing data sets. Studies within the Greater Narragansett Bay pertinent to understanding the Mt. Hope Bay ecosystem were also presented. Sixteen full presentations and six posters were presented, and discussed in two panel sessions. Papers were published in a special issue of the *Northeast Naturalist* 13(special issue 4) in 2006.

Passive acoustics as a tool in fisheries. A special symposium held at the Annual meeting of the American Fisheries Society August 10-14, 2003, in Quebec, Canada. Organizers: Joe Luczkovich (East Carolina Univ.), David Mann (USF), and Rodney Rountree (SMAST- Umass Dartmouth). The symposium focused on the rapid development of passive acoustic technologies for use in fisheries management and research and featured 16 presentations and a panel discussion. Nine papers were published in a special module of the *Transactions of the American Fisheries Society* edited by Luczkovich, Mann and Rountree in May 2008. TAFS 137.

Contributed papers TAFS 137(2)Special Section:Passive Acoustics.

Passive Acoustics as a Tool in Fisheries Science.
Joseph J. Luczkovich, David A. Mann, and Rodney A. Rountree.

[Abstract](#) . [Full Text](#) . [PDF \(83K\)](#)

White Seabass Spawning Behavior and Sound Production.
Scott A. Aalbers and Mark A. Drawbridge.

[Abstract](#) . [Full Text](#) . [PDF \(479K\)](#)

Distribution of Red Drum Spawning Sites Identified by a Towed Hydrophone Array. Scott A. Holt. [Abstract](#) . [Full Text](#) . [PDF \(573K\)](#)

Use of Passive Acoustics to Determine Red Drum Spawning in

Georgia Waters. Susan K. Lowerre-Barbieri, Luiz R. Barbieri, J. R. Flanders, A. G. Woodward, C. F. Cotton, and M. Katheryn Knowlton. [Abstract](#) . [Full Text](#) . [PDF \(700K\)](#)

Identifying Sciaenid Critical Spawning Habitats by the Use of Passive Acoustics. Joseph J. Luczkovich, R. Christopher Pullinger, Stephen E. Johnson, and Mark W. Sprague. [Abstract](#) . [Full Text](#) . [PDF \(1.28M\)](#)

Diel Periodicity of Fish Sound Production in Charlotte Harbor, Florida. James V. Locascio and David A. Mann. [Abstract](#) . [Full Text](#) . [PDF \(565K\)](#)

Soniferous Fishes in the Hudson River. Katie A. Anderson, Rodney A. Rountree, and Francis Juanes. [Abstract](#) . [Full Text](#) . [PDF \(692K\)](#)

Use of Passive Acoustics for Assessing Behavioral Interactions in Individual Toadfish. Michael L. Fine and Robert F. Thorson. [Abstract](#) . [Full Text](#) . [PDF \(468K\)](#)

Passive Acoustic Techniques in Fisheries Science: A Review and Prospectus. Damon P. Gannon. [Abstract](#) . [Full Text](#) . [PDF \(187K\)](#)

Long-term shifts in Faunal assemblages in Eastern North America.

A special symposium held at the biennial meeting of the Coastal and Estuarine Research Federation (CERF, formerly ERF) in Providence, RI, 4-8 November 2007. Scientists from the Gulf of Saint Lawrence to the Gulf of Mexico presented 14 oral and 3 poster presentations on temporal patterns in assemblage composition of benthic invertebrates, estuarine nekton, zooplankton or fishes. Chaired by Rountree, R.A. (META, Inc) and F. Juanes (UMass Amherst).

Buchsbaum, Robert and J. Christopher Powell. 2008.

Symposium review: long-term shifts in faunal assemblages in eastern North American estuaries: a review of a workshop held at the biennial meeting of the Coastal and Estuarine Research Federation (CERF), November 2007, Providence, Rhode Island. *Reviews in Fish Biology and Fisheries* 18(4):447-450, DOI: 10.1007/s11160-008-9086-x

The Biodiversity of Fishes: Bioacoustics. A special session held at the Ecological and Evolutionary Ethology of Fishes

(EEEF) meeting in Boston, MA June 29- July 3rd. 2008.

Abate, Maria E. 2010. Proceedings of the 2008 Ecological and Evolutionary Ethology of Fishes Conference. Current Zoology 56(1): forward.
http://www.actazool.org/issuedetail.asp?volume=56&number=1&issue_id=494

PRESENTATIONS and SEMINARS

Rountree, R.A. 1982. The use of high-voltage photography as a technique for detecting subsurface electrical inhomogeneities in materials. Collegiate and Senior Academy of the North Carolina Academy of Sciences, 1982. (First Place - John Bowley Derieux Research Award - Physics, best student paper award)

Rountree, R.A. 1983a. The use of high-voltage photography for materials testing. II. Distinguishing materials irrespective of surface phenomena. Collegiate and Senior Academy of the North Carolina Academy of Sciences, 1983.

Rountree, R.A. 1983b. The ecology of *Stomolophus meleagris* and its fish symbionts. Collegiate and Senior Academy of the North Carolina Academy of Sciences, 1983. (Second Place - John Bowley Derieux Research Award - Biology, best student paper award)

Rountree, R.A. 1983c. *Stomolophus meleagris* the cabbage head jellyfish and its fish symbionts. American Society of Ichthyologists and Herpetologists, Florida State University, Tallahassee, Florida, June 1983.

Rountree, R.A. 1985a. Use of fish aggregation devices and naturally occurring drift materials as habitat by fishes. American Society of Ichthyologists and Herpetologists, University of Tennessee, Knoxville, Tennessee, June 1985.

Rountree, R.A. 1985b. Use of fish aggregation devices and naturally occurring drift materials as habitat by fishes. Artificial Reef Conference, North Carolina Sea Grant and the University of North Carolina at Wilmington, Sept. 1985.

Rountree, R.A. 1986a. Occurrence of *Octopus vulgaris* and *Menippe*

mercenaria within concrete blocks used to moor fish aggregation devices in the coastal waters off Charleston, South Carolina. Southeastern Estuarine Research Society, Surfside Beach, South Carolina, April 1986.

- Rountree, R.A. 1986b. Relationship between the structural complexity of fish aggregation devices (FADs) and the number of fish attracted. American Society of Ichthyologists and Herpetologists, Victoria, British Columbia, Canada, June 1986.
- Rountree, R.A. 1986c. Fish Use of Structure: spatial orientation of fishes associated with FADs placed in the shallow coastal waters off Charleston, South Carolina. American Society of Ichthyologists and Herpetologists, Victoria, British Columbia, Canada, June 1986.
- Rountree, R.A. 1987a. The importance of schooling behavior to the association of *Decapterus punctatus* with fish aggregation devices (FADs). American Society of Ichthyologists and Herpetologists, Albany, New York, June 1987.
- Rountree, R.A. 1987b. Association of fishes with fish aggregation devices: effects of structure size on fish abundance and predator avoidance behavior. Fourth International Conference on Artificial Habitats for Fisheries, Miami, Florida, November 1987.
- Rountree, R.A. 1989. Utilization of high salinity salt marsh creeks by fishes in New Jersey. 10th Biennial International Estuarine Research Conference, Lord Baltimore Hotel, Baltimore, Maryland, October 8-12, 1989. (Honorable Mention -Competition for best student paper)
- Rountree, R.A., and K.W. Able. 1990. New Jersey subtidal marsh creeks as nursery habitat. 14th Larval Fish Conference, Early Life History Section, American Fisheries Society, Beaufort, North Carolina, 6-9 May 1990.
- Rountree, R.A. 1990. Tidal foraging, growth, and residence period of summer flounder, *Paralichthys dentatus*, in New Jersey subtidal marsh creeks. 70th Annual Meeting American Society of Ichthyologists and Herpetologists, Charleston, South Carolina, 14-20 June 1990.

- Able, K.W., R.A. Rountree, T. Azarovitz, and B. O'Gorman. 1990a. Movements of *Mustelus canis* in the Mid-Atlantic Bight and New Jersey estuaries. 70th Annual Meeting American Society of Ichthyologists and Herpetologists, Charleston, South Carolina, 14-20 June 1990.
- Witting, D.A., K.W. Able, R.A. Rountree, S.M. Sogard, S.T. Szedlmayer. 1990. Recruitment and habitat ecology of New Jersey flatfishes: preliminary results. 70th Annual Meeting American Society of Ichthyologists and Herpetologists, Charleston, South Carolina, 14-20 June 1990.
- Able, K.W., R.A. Rountree, S.M. Sogard, S.T. Szedlmayer, and K.A. Wilson. 1990b. Measures of juvenile fish habitat quality in southern New Jersey estuaries. 120th Annual Meeting of the American Fisheries Society, Pittsburgh, Pennsylvania, 26-30 August 1990.
- Rountree, R.A., and K.W. Able. 1991a. Fauna of high salinity subtidal marsh creeks in southern New Jersey: composition, abundance and biomass. Atlantic Estuarine Research Society Spring Meeting, St. Michaels, Maryland, 3-4 May 1991.
- Rountree, R.A. 1991. Salt marsh creek community structure: importance of environmental gradients and tidal migration. 71st Annual Meeting of the American Society of Ichthyologists and Herpetologists, New York, New York, 15-20 June 1991.
- Rountree, R.A., and K.W. Able. 1991b. Salt marsh creek community structure: importance of environmental gradients and tidal migration. Annual meeting, Mid-Atlantic Chapter American Fisheries Society, Tuckerton, New Jersey, 28 June 1991.
- Rountree, R.A., and K.W. Able. 1991c. Use of marsh creeks by economically important fishes in southern New Jersey: seasonal, diel and tidal patterns. American Fisheries Society, September 8-12, 1991, San Antonio, Texas.
- Rountree, R.A., and M.P. Fogarty. 1993. Spatial, temporal and predator-prey size patterns of cannibalism by silver hake. Combined Meetings of: American Society of Ichthyologists and Herpetologists, The Herpetologists' League, 17th Annual

Larval Fish Conference, American Elasmobranch Society.
Austin, Texas, 27 May - 2 June 1993.

Rountree, R.A. 1994. Broad-scale distribution patterns of summer flounder and their prey based on bottom trawl surveys collected from 1973-1992 between Cape Hatteras and the Scotian Shelf. 12th Annual Meeting of the American Fisheries Society, Halifax, Nova Scotia, 21-25 August 1994.

Rountree, R.A. 1995. Fish predator guilds for Georges Bank, and the continental shelf from Cape Sable to Cape Hatteras. 75th Annual meeting of the American Society of Ichthyologists and Herpetologists, 11th Annual meeting of the American Elasmobranch Society, and 43rd Annual meeting of the Herpetologist's League. At the University of Alberta, Edmonton, Alberta, Canada, June 15-19, 1995.

Rountree, R.A. 1996a. Diet of Key Fishes Collected in the Gulf of Maine during Northeast Fisheries Science Center Bottom Trawl Surveys Conducted From 1981-90. Presented at the Gulf of Maine Ecosystem Dynamics Scientific Symposium and Workshop, 15-20 September 1996, Sponsored by the Regional Association for Research on the Gulf of Maine (RARGOM), St. Andrews, NB, Canada.

Rountree, R.A. 1996b. Importance of trophic data to the development of multispecies and ecosystem level management plans in the Gulf of Maine. Invited mini-seminar presented at the Gulf of Maine Ecosystem Dynamics Scientific Symposium and Workshop, 15-20 September 1996, Sponsored by the Regional Association for Research on the Gulf of Maine (RARGOM), St. Andrews, NB, Canada.

Rountree, R.A., and F. Juanes. 1997. A discussion of selected critical research needs in GOM salt marsh/estuarine habitats: towards understanding estuarine dependence. Invited Plenary Seminar at the Workshop on Salt Marsh Ecosystems held at the spring meeting, May 1-3, 1997, of the New England Estuarine Research Society in Wells, Maine.

Deegan, L.A., J.E. Hughes and R.A. Rountree. 1998. Salt marsh support of marine transient species: fact or fiction? Invited seminar at the Special International Conference: Concepts and Controversies in Tidal Marsh Ecology, held April 5-9, 1998 at Vineland, N.J.

Rountree, R.A., and K.W. Able. 1998. A discussion of selected research needs for saltmarsh nekton. Invited seminar at the Special International Conference: Concepts and Controversies in Tidal Marsh Ecology, held April 5-9, 1998 at Vineland, N.J.

Rountree, R.A., N.J. McHugh, W.L. Michaels, C.G. Milliken and R.M. Yetter. 1998a. Characterization of feeding types of northwest Atlantic shelf fishes. American Society of Ichthyologists and Herpetologists' 78th Annual Meeting, Society of Amphibians and Reptiles 41st Annual Meeting, Herpetologists 46th Annual Meeting, and American Elasmobranch Society 14th Annual Meeting, Canadian Association of Hepetologists Annual Meeting, Hosted by the University of Guelph, Guelph, Ontario, Canada July 16-22, 1998.

Rountree, R.A. and G.R. Sedberry. 1998. A preliminary model of shoaling behavior based on visual field overlap patterns. International Congress on the Biology of Fish, Towson University, Baltimore, MD, July 27-30, 1998.

Rountree, R.A., Michaels, W.L. and N.J. McHugh. 1998b. Characterization of fish guilds on the Northwest Atlantic shelf based on diet similarity. American Fisheries Society, 128th Annual Meeting, Hartford, CT, August 23-27, 1998.

Juanes, Francis, F. Scharf, B. Hanrahan and R. Rountree. 1999. Using the NMFS food habits database to explore predator-prey relationships among piscivorous fishes. The Cooperative Marine Education and Research Program Special Symposium May 1999, Falmouth, MA.

Rountree, R.A., F. Juanes. 2000a. Patterns in nekton habitat use along a marsh coenocline. New England Estuarine Research Society, Portland, Maine, May 18-20, 2000.

Rountree, R.A., F. Juanes. 2000b. Patterns of ontogenetic shifts in nekton habitat use along a marsh coenocline: Atlantic silverside case study. Southern New England Chapter of the American Fisheries Society, Summer Meeting June 14, 2000, Old Lyme, Connecticut.

- Scharf, F.S., F. Juanes, and R.A. Rountree. 2000. Predator size - prey size relationships of marine fish predators: interspecific variation and the effects of ontogeny and body size on trophic niche breadth. Presented at the Annual Meeting of the American Society of Ichthyologists and Herpetologists, La Paz, Mexico, June 2000
- Rountree, R.A. 2000. Analysis of patterns of ontogenetic shifts in predator food types and predator-prey size relationships in the northwest Atlantic groundfish community. Invited seminar given at the Northwest Fisheries Science Center, Seattle, WA on September 21, 2000.
- Rountree, R.A. 2001a. Soniferous fishes of the world. Invited seminar given on 24 May 2001 as part of the Biodiversity Course for naturalists, scientists & teachers, Cape Cod Museum of Natural History.
- Rountree, R.A. and J. Bowers-Altman. 2001. Soniferous behavior of the striped cusk-eel, Ophidion marginatum, and other coastal marine fishes based on preliminary laboratory and field observations. Bioacoustics of Fishes: sensory biology, behavior, and practical applications. May 30-June 2, 2001, Chicago, IL.
- Rountree, R.A., P.J. Perkins, R.D. Kenney, and K.R. Hinga. 2001a. Sounds of Western North Atlantic Fishes: Data rescue. Bioacoustics of Fishes: sensory biology, behavior, and practical applications. May 30-June 2, 2001, Chicago, IL.
- Rountree, R.A., P.J. Perkins, R.D. Kenney, and K.R. Hinga. 2001b. Sounds of Western North Atlantic Fishes. Poster presented at the 81st annual meeting of the American Society of Ichthyologists and Herpetologists, 17th annual meeting of the American Elasmobranch Society, State College, Pennsylvania on July 5-10, 2001.
- Rountree, R.A. 2001b. Sounds of Cape Cod Fishes. Poster presented at the open house of the Waquoit Bay National Estuarine Research Reserve, Waquoit, MA. August 14, 2001.
- Rountree, R.A. 2001c. Fish sounds and boat noise, applications of passive acoustics to fisheries issues. Invited seminar presented at the Cape Cod Conference on Environmental

Reporting. September 20-22, 2001 at Woods Hole, MA.
Sponsored by the Society of Environmental Journalists and
the Marine Biological Laboratory.

Rountree, R.A. and F. Juanes. 2001a. Diel zonation changes in size-specific densities of marsh creek nekton are the rule not the exception. Poster presented at the 16th Biennial Conference of the Estuarine Research Federation (ERF) held 4-8 November 2001 at the Tradewinds Conference Center, St. Pete Beach, Florida.

Juanes, F. and R.A. Rountree. 2001b. Low tide nekton densities of a subtidal marsh creek based on an improved sampling method. Presented at the 16th Biennial Conference of the Estuarine Research Federation (ERF) held 4-8 November 2001 at the Tradewinds Conference Center, St. Pete Beach, Florida.

Rountree, R.A., Joseph E. Blue and Francis Juanes. 2002a. Use of ROVs as a platform for passive acoustics: characterization of ROV noise generation. Listening to the Fish: An International Workshop on the Applications of Passive Acoustics in Fisheries, April 8-10, 2002 in Dedham, MA.

Rountree, R.A., and F. Juanes. 2002a. Soniferous fishes of Massachusetts. Listening to the Fish: An International Workshop on the Applications of Passive Acoustics in Fisheries, April 8-10, 2002 in Dedham, MA.

Rountree, R.A., and F. Juanes. 2002b. Vocal marine fishes in Massachusetts: listening to fish to locate spawning grounds. Southern New England Chapter of the American Fisheries Society, summer meeting, held 19 June 2002 at Rogers William University, Bristol, RI.

Rountree, R.A. 2002. The Mt. Hope Bay Natural Laboratory. Invited seminar at Roger Williams University on November 20, 2002.

Rountree, R.A., B. Rothschild, W. Brown, Y. Fan, L. Goodman, and L. Zhoa. 2002b. Review of the ecology of winter flounder in Narragansett and Mt. Hope Bays: why the decline?" Flatfish Biology Workshop in Westbrook, CT on December 10-11, 2002.

- Rountree, R.A. 2003a. Listening to Fish. Presented at the 9th annual High School Environmental Symposium, sponsored by the Massachusetts Maritime Academy, the New England Aquarium and the Woods Hole Oceanographic Institution. February 28, 2003 - March 01, 2003, in Buzzards Bay, MA.
- Rountree, R.A. 2003b. Vocal Fishes of Cape Cod. 8th Annual Cape Cod Natural History Conference. Wellfleet Bay Wildlife Sanctuary, South Wellfleet MA. March 15th 2003.
- Kessler, R.K., R.A. Rountree, B.J. Rothschild, W. Brown and R. Lane. 2003. The SMAST High Resolution Trawl Survey: A Case Study in The Design and Development of Cooperative Trawl Survey Programs Between Commercial Fleets, Academic Institutions and Government. Poster presented at the NEERS/SNECAFS Joint Meeting, May 8-10, 2003, Holiday Inn, Fairhaven, MA, Hosted by, UMass Dartmouth, SMAST.
- Zhao, L., L. Goodman, C. Chen, B. Rothschild and R. Rountree. 2003. SMAST, UMass Dartmouth. Simulating the Effects of The Heated Water Discharges from Brayton Point Power Station to Mount Hope Bay in Finite Volume Coastal Model. Presented at the Special Symposium: Natural and Anthropogenic influences on the Mt. Hope Bay Ecosystem, held at the NEERS/SNECAFS Joint Meeting, May 8-10, 2003, Holiday Inn, Fairhaven, MA, Hosted by, UMass Dartmouth, SMAST.
- Rountree, R., B.J. Rothschild, W. Brown, D. Martins and R. Kessler. 2003a. SMAST, UMass Dartmouth. The SMAST Cod-Tagging Program: Georges Bank and Gulf of Maine. Poster presented at the NEERS/SNECAFS Joint Meeting, May 8-10, 2003, Holiday Inn, Fairhaven, MA, Hosted by, UMass Dartmouth, SMAST.
- Rountree, R.A., and D. Witting. 2003. Spatial and Temporal Patterns of The Fish Assemblages in The Greater Narragansett Bay Estuarine System: Is Mt. Hope Bay Different? presented at the Special Symposium: Natural and Anthropogenic influences on the Mt. Hope Bay Ecosystem, held at the NEERS/SNECAFS Joint Meeting, May 8-10, 2003, Holiday Inn, Fairhaven, MA, Hosted by, UMass Dartmouth, SMAST.
- Rountree, R.A. 2003c. Listening to Fish: Passive Acoustic Applications to Fisheries. Symposium "Environmental

Consequences of Underwater Sound (ECOUS)", San Antonio, Texas 12-16 May 2003, U.S. Office of Naval Research-ONR, Science and Technology, Human Systems.

Rountree, R.A., B.J. Rothschild, and W. Brown. 2003b. The SMAST Cod-Tagging Program. Paper presented in the Symposium: Cooperative Research in Marine Fisheries. Held at the Annual Meeting of the American Fisheries Society, August 10-14, 2003 in Quebec, Canada.

Rothschild, B.J., H.Lin, R. Lane, W.Brown, C. Jakubiak, and R.Rountree. 2003. Cooperative Studies of the Georges Bank Trawl Fishery. Paper presented in the Symposium: Cooperative Research in Marine Fisheries. Held at the Annual Meeting of the American Fisheries Society, August 10-14, 2003 in Quebec, Canada.

Mann, D.A., J.J. Luczkovich, and R.A. Rountree. 2003. Passive Acoustics and Fisheries - Past, Present, and Future of the Use of Passive Fish Acoustics in the Study of Fishes. Paper presented in the Symposium: Passive Acoustics as a Tool in Fisheries, held at the Annual Meeting of the American Fisheries Society, August 10-14, 2003 in Quebec, Canada.

Rountree, R.A., J.J. Luczkovich, and D. Mann. 2003c. Vocal Marine Fishes of North America. Paper presented in the Symposium: Passive Acoustics as a Tool in Fisheries, and held at the Annual Meeting of the American Fisheries Society, August 10-14, 2003 in Quebec, Canada.

Rountree, R.A., and F. Juanes. 2003. Passive Acoustic Studies of the Striped Cusk-Eel: Demonstrating the Potential of Passive Acoustics in Fisheries Applications. Paper presented in the Symposium: Passive Acoustics as a Tool in Fisheries, and held at the Annual Meeting of the American Fisheries Society, August 10-14, 2003 in Quebec, Canada.

Goudey, C.A. (MIT Sea Grant College Program), and R.A. Rountree. 2003. Locating Cod and Haddock Spawning Areas Using Low-Cost Underwater Recorders. Paper presented in the Symposium: Passive Acoustics as a Tool in Fisheries, and held at the Annual Meeting of the American Fisheries Society, August 10-14, 2003 in Quebec, Canada.

- Rountree, Rodney A.; Kessler, R.; Martins, D.; Jones, D. 2004. Fish assemblage structure on Georges Bank based on bottom trawl data collected from the New Bedford fishing fleet. Presented at the 84th annual meeting of the American Society of Ichthyologists and Herpetologists (ASIH) held 26-31 May 2004 in Norman, Oklahoma.
- Anderson, K.A., R.A. Rountree, and F. Juanes. 2004. Soniferous fishes in Hudson River. Paper presented June 9, 2004 at the Southern New England Chapter of the American Fisheries Society Summer meeting, Kingston, R.I.
- Rountree, R.A. 2004a. How Estuaries Support Coastal Fisheries. Invited Seminar presented at the Second Annual "State of Wellfleet Harbor" Conference by the Town of Wellfleet, Wellfleet Conservation Trust, Cape Cod National Seashore and Mass Audubon Wellfleet Bay Wildlife Sanctuary. Nov. 6, 2004.
- Cadrin, S., A. Westwood, N. Keith, R. Rountree, D. Martins, R. Kessler, D. Jones, A. Valliere, J. King and J. Boardman. 2004. Movement of yellowtail flounder: a cooperative tagging study. Flatfish Biology Conference. Dec. 1-2, 2004, at Westbrook, CT.
- Rountree, R.A. 2004b. Potential of Passive Acoustics as a tool for Fisheries Research. Invited seminar in the Department of Natural Resources Conservation, UMass Amherst, Amherst, MA. Dec. 11, 2004.
- Rountree, R.A. 2005a. Vocal fishes of Stellwagen Bank, the Gulf of Maine and Cape Cod. Invited lecture given as part of the "Ocean Treasures" series co-sponsored by the Stellwagen Bank National Marine Sanctuary and the Cape Cod Museum of Natural History. 23 March 2005, Brewster, MA. Reported in the March 23rd issue of the Cape Cod Times
- Cadrin, S.X., A.D. Westwood, O.L. Alade, R.A. Rountree, D. Martins, D. Jones, J. King, A. Valliere and H.H. Stone. 2005. Tagging Yellowtail Flounder with Commercial Fishermen. Northeast Fish and Wildlife Conference. April 17-20, 2005 in Virginia Beach, VA.
- Rountree, R.A., Cliff Goudey, Ken Ekstrom, and K. Anderson. 2005a. Determination of daily spawning patterns of haddock

based on field recordings of vocal activity. Presented at the 2005 Joint Meeting of Ichthyologists and Herpetologists, July 7-12, 2005, Tampa, Fl.

Rountree, R.A., Joachim Groeger, Darin Jones, and David Martins. 2005b. The human predator: influence of target species on catch in the Georges Bank Trawl Fishery. Presented at the 2005 Joint Meeting of Ichthyologist and Herpetologists, July 7-12, 2005, Tampa, Florida.

Anderson, K.A. 2005. Soniferous fishes in the Hudson River: focusing on tidal freshwater Tivoli Bays. Presented at the 2005 Joint Meeting of Ichthyologists and Herpetologists, July 7-12, 2005, Tampa, Florida.

Pappal, A.L. 2005. Habitat preferences of juvenile winter flounder, *Pseudopleuronectes americanus*, in the presence of structure. Presented at the 2005 Joint Meeting of Ichthyologists and Herpetologists, July 7-12, 2005, Tampa, Fl.

Juanes, F., J. Manderson and R. Rountree. 2005. Habitat, life histories and adaptation: the role of habitat in determining recruitment of juvenile marine fishes. Invited keynote address, Fisheries Society of the British Isles Annual International Symposium, Univ. Wales, Bangor, N. Wales, July 20, 2005.

Bruno, M.S., J. Levinton, M. Ludwig, M. Padilla, R. Rountree, and C. Drew. 2005. Live! From the bottom of New York Harbor. Sponsored by the River Project, Pier 26, North River, New York, NY. Held Saturday, Sept. 10, 2005. Panel of experts present a multimedia presentation, including real-time communication with divers in the harbor, to the general public.

Rountree, R.A. 2005b. Listening to fish - an often-overlooked method to determine essential fish habitat. Invited to present the lead-off paper in the special session (SP-18) Estuarine Fish Behavior: What can the fish themselves tell us about essential fish habitat? Presented at the 18th Biennial Estuarine Research Federation meeting in Norfolk, VA, October 16-20, 2005.

Rountree, R.A. 2005c. Listening to fish - applications of

passive acoustics to fisheries science and the exploration of the seas. Invited seminar 16 November 2005. Graduate School of Oceanography, University of Rhode Island, Narragansett, RI.

Rountree, R.A. 2006a. Listening to fish - future development priorities for passive acoustics. Invited seminar, 8 Feb. 2006, Stevens Institute of Technology, Hoboken, NJ.

Goudey, Cliff and R.A. Rountree. 2006. Listening to fish: passive acoustics applied to marine fisheries and ecosystems. Invited seminar, NOAA National Workshop on Passive Acoustics, 11-13 April 2006, Woods Hole, MA.

Rountree, R.A., F. Juanes, and C. Goudey. 2006a. Listening to fish: applications of passive acoustics to fisheries. Invited presentation in the Joe Blue memorial session part 2: shallow water and marine animal acoustics. Acoustical Society of America conference, Providence, Rhode Island, 5-9 June, 2006.

Rountree, R.A., J.P. Groeger, and D. Martins. 2006b. Migration and vertical movements of a tagged Atlantic goosefish on Georges Bank. Presented at the 2006 Joint Meeting of Ichthyologists and Herpetologists, July 12-17, 2006, New Orleans, La.

Rountree, R.A., J.P. Groeger, and D. Martins. 2006c. Extraction of daily activity pattern and vertical migration behavior from the benthic fish, *Lophius americanus*, based on depth analysis from data storage tags. Presented at the ICES Annual Science Conference, Maastricht, the Netherlands, 19-23 September 2006.

Rountree, R.A. 2006b. Passive Acoustic Applications to Fisheries and Estuarine Ecology. Invited Seminar Queens College, Biology Department, Flushing, New York. November 8, 2006.

Rountree, R.A. 2007a. How do salt marshes function as habitat for nekton? Invited Seminar, Graduate School of Oceanography, University of Rhode Island, Narragansett, RI. March 7, 2007.

Rountree, R.A. and F. Juanes. 2007a. Potential for the use of passive acoustic technologies in aquatic systems of North

America. Inland Freshwater Fisheries Session, 63rd Annual Meeting of the Northeast Fish and Wildlife Conference, Groton/Mystic, Connecticut, 22-25 April 2007.

Rountree, R.A. 2007b. Underwater sounds of fishes of the Gulf of Maine and Cape Cod. Invited public seminar. Massachusetts Audubon's Wellfleet Bay Wildlife Sanctuary, South Wellfleet, MA. 8 August 2007.

Anderson, K.A., R.A. Rountree and F. Juanes. 2007a. Diel reproductive periodicity in haddock in the Southwestern Gulf of Maine. Reproductive and Recruitment Processes of Exploited Marine Fish Stocks held in Lisbon, Portugal. October 1-3, 2007.

Anderson, K.A., R.A. Rountree and F. Juanes. 2007b. Determination of the daily spawning time of haddock. International Symposium on Haddock Conservation, Harvesting and Management held in Portsmouth, New Hampshire. October 25-26, 2007.

Rountree, R.A., and F. Juanes. 2007b. Long-term Shifts in Faunal Assemblages in Narragansett Bay, Rhode Island. Presented at the biennial meeting of the Coastal and Estuarine Research Federation (CERF, formerly ERF) in Providence, RI, 4-8 November 2007.

Rountree, R.A. 2007c. Listening to Fish: Passive Acoustic Applications to Fisheries and the Exploration of the Seas. Invited seminar presented 12 December 2007. Department of Biological Sciences, Boston University.

Rountree, R.A. 2008a. The underwater soundscape. Southern New England Chapter of the American Fisheries Society, Summer Meeting, June 11, 2008. University of Connecticut, Storrs, CT.

Rountree, R.A. 2008b. First survey of the underwater soundscape of New England rivers. **The Biodiversity of Fishes: Bioacoustics.** A special session held at the Ecological and Evolutionary Ethology of Fishes (EEEEF) meeting in Boston, MA June 29- July 3rd. 2008.

Rountree, R.A., C. Goudey, F. Juanes, K. Ekstrom, and D.

Mellinger. 2008. Is biological sound production important in the deep sea? 138th annual meeting of the American Fisheries Society, 17-21 August, 2008. Ottawa, Canada.

Rountree, R.A. 2008c. The need to improve communication between marine scientists and technology companies in the development of new underwater acoustic and optic observation technologies for fisheries research. Invited speaker Oceantech Expo'08. Providence, Rhode Island, 30 September - 3 October, 2008. (Subsequently invited to contribute a manuscript related to the talk to Marine Technology Reporter (see Rountree 2008).

Rountree, R.A. 2008d. Fishes Voices. Invited public seminar 11 November 2008 at the Cape Cod Museum of Natural History.

Rountree, R.A. 2009a. Conservation of the underwater soundscape in our rivers and streams. Northeastern Urban Research Organizational Network (NEURON) Conference, Feb. 9-10, 2009. Boston College, Chestnut Hill, Massachusetts.

Rountree, R.A. 2009b. Biology of Atlantic wolffish and cusk: implications for the Stellwagen Bank National Marine Sanctuary's function as an effective MPA. Invited seminar presented at the 27th Sanctuary Advisory Council Meeting. 14 May 2009. NOAA Fisheries Northeast Regional Office, Gloucester, MA.

Anderson, K.A., W. Roumillat, R.A. Rountree, and F. Juanes. 2009. Staging haddock (*Melanogrammus aeglefinus*) ovaries: implications for maturity indices, estimation of daily spawning timing, and field sampling practices. 4th Workshop on Gonadal Histology of Fishes. 16-19 June 2009, El Puerto de Santa Maria, Cadiz, Spain.

Rountree, R.A., and F. Juanes. 2009. Widespread occurrence of biological sound production in five major New England river systems: an implication of a profoundly overlooked component of aquatic ecology. 139th Annual meeting of the American Fisheries Society, August 30 - 3 September, 2009. Nashville Tennessee.

Rountree, R.A. 2009c. Understanding "Estuarine Gradients." Technical Workshop: a biological Condition gradient. 28-29 October 2009. Narragansett Bay Estuary Program,

Narragansett, RI.

Rountree, R.A., and F. Juanes. 2010. Are Fast Repetitive Tick (FaRT) sounds more common in fishes than previously thought? Southern New England Chapter of the American Fisheries Society, Summer meeting, 23 June 2010, University of Rhode Island, Kingston, R.I.

Rountree, R.A. 2010. Listening to Fish: A virtually unexplored world of drumming, grunting, squeaks, squeals, and even Fart! Ocean Voice Speaker, 2 December 2010, Ocean Explorium at New Bedford Seaport, New Bedford, MA.

Rountree, R.A., and F. Juanes. 2011. Invasion of the Hudson River by the freshwater drum, *Aplodinotus grunniens*: potential of passive acoustics as a tool to monitor its spread. Southern New England Chapter of the American Fisheries Society, Summer Meeting, 14 June 2011, Connecticut Department of Environmental Protection, Old Lyme, CT.

Rountree, R.A. 2011. Passive acoustics: a new frontier in marine and aquatic science, with comments on fish farts, fish jumping and other interesting acoustic phenomena. Invited seminar, Massachusetts Institute of Technology Brown Bag Lunch Seminar Series. June 16, 2011.

Rountree, R.A. 2011. Development of technologies to validate unknown underwater biological sound sources and document fish soniferous behavior with comments on fish "Farts" and other poorly understood biological sounds. Invited seminar, Department of Environmental Conservation, University of Massachusetts at Amherst. November 4, 2011.

Juanes, F. and Rountree. 2011. Potential of passive acoustics to monitor invasion of the Hudson River by the freshwater drum, *Aplodinotus grunniens*. Western Society of Naturalists, Vancouver, WA.

Juanes, F. and R. Rountree. 2012. Potential effects of noise on fish. WWF-Canada workshop on Ocean noise, Vancouver, BC.

Juanes, F., K. Anderson, and R. Rountree. 2012. Diel reproductive periodicity of haddock, *Melanogrammus aeglefinus*: developing maturity indices and correlating to

sound production patterns. Western Groundfish Conference. Seattle, WA.

Rountree, R.A. 2012. Tools to study Marine and Aquatic Soundscapes: Example Applications including Invasive Drum, Cryptic Cusk-eels, and Salmon Farts. February 8, 2012. Invited seminar, Roger Williams University, Bristol, Rhode Island.

Rountree, R.A. 2012. How can we understand the ecological impacts of noise if we don't know what organisms are soniferous? Effects of Noise on Fish, Fisheries, and Invertebrates in the U.S. Atlantic and Arctic from Energy Industry Sound-Generating Activities. BOEM Workshop 20-22 March, 2012. San Diego, CA.

Pomerleau C., Rountree R, Juanes F, Moran K. 2012. A comparative study of sound production in two marine environments monitored by the NEPTUNE Canada undersea observatory network. PICES 2012 Annual Meeting, Hiroshima, Japan, October 12-21 2012.

Rountree, R.A. 2012. First-ever sound recordings of the freshwater drum *Aplodinotus grunniens* and its invasion of the Hudson River, NY. Invited seminar, November 16, 2012, East Carolina University, Institute for Coastal Science and Policy and the Department of Biology, Greenville, NC.

Wall, CC, Rountree, RA and Juanes, R. Mapping the acoustic soundscape off Vancouver Island using the NEPTUNE Canada ocean observatory. Effects of Noise on Aquatic Life. Budapest, Hungary, Aug 2013.

Sousa-Lima, Renata S.; ROUNTREE, R.; BRITO, M. R. M.; CARLETTI, I.M.; da Silva, V.M.F.. Invisible yet detectable: wild Amazonian manatees (*Trichechus inunguis*) can be monitored by passive acoustics. In: XI Congresso de Ecologia do Brasil & I Congresso Internacional de Ecologia, 2013, Porto Seguro, Ba.. Anais do XI Congresso de Ecologia do Brasil & I Congresso Internacional de Ecologia, 2013. v. 1. p. 1-3. (Extended Abstract)

Sousa-Lima, Renata; ROUNTREE, R.; BRITO, M.R.M.; CARLETTI, I.M.; da Silva, V.M.F.. Invisible but detectable: listening for wild Amazonian manatees (*Trichechus inunguis*). In: XXIV

International Bioacoustics Congress, 2013, Pirenópolis, Go.. XXIV International Bioacoustics Congress, 2013. v. 1. p. 66-67. (Abstract)

Wall, C., R. Rountree, and F. Juanes. 2013. Understanding the marine soundscape off Vancouver Island: An exploration of passive acoustic data from the NEPTUNE Canada ocean observing system. PICES annual science meeting, Nanaimo, BC, Oct 15.

Rountree, R.A. 2014. Sounds from the Amazon: Piranha and Other River Creatures. Invited seminar, 5 March 2014, Department of Estuarine and Ocean Sciences, University of Massachusetts Dartmouth.

Rountree, R.A. 2016. Sounds from the Amazon: Piranha and their Prey. Seminar. April 22, 2016, University of Victoria, Victoria, BC, Canada

Rountree, R.A. 2016. Sounds from the Amazon: Piranha and their Prey. Seminar. Nov. 11, 2016. University of South Carolina Beaufort, Bluffton, SC.

Rountree, R.A. 2017. Listening to Fish: An introduction. Invited seminar, Feb. 3, 2017. North Carolina State University.

Rountree, R.A. 2017. Sound Production by Alewife, White Sucker, and Trout on Cape Cod. 22st Annual Cape Cod Natural History Conference. Cape Cod Community College, Hyannis, MA. Saturday, March 11, 2017

Mouy, X., R.A. Rountree, F. Juanes, and S.E. Dosso. 2017. Passive acoustic localization of fish using a compact hydrophone array. Acoustics '17 Boston, 173rd Meeting of the Acoustical Society of America and the 8th Forum Acusticum, Boston MA, 25-29 June 2017.

Rountree, R.A., K.A. Burchard, X. Mouy, C.A. Goudey, and F. Juanes. 2017. Passive acoustic monitoring of haddock in the Gulf of Maine. Invited talk in the symposium "Fish Bioacoustics: Session in Honor of Anthony Hawkins and Arthur Popper". Acoustics '17 Boston, 173rd Meeting of the Acoustical Society of America and the 8th Forum Acusticum, Boston MA, 25-29 June 2017.

Rountree, R.A., F. Juanes and M. Bolgan. 2017. Fish sound production in freshwater habitats of New England: widespread occurrence of air movements sounds. Acoustics '17 Boston, 173rd Meeting of the Acoustical Society of America and the 8th Forum Acusticum, Boston MA, 25-29 June 2017.

Rountree, R.A., and F. Juanes. 2017. Potential to use passive acoustics to monitor the invasion of the Hudson River by freshwater drum. Acoustics '17 Boston, 173rd Meeting of the Acoustical Society of America and the 8th Forum Acusticum, Boston MA, 25-29 June 2017.

Riera, A., R.A. Rountree, and F. Juanes. 2017. Auditioning fish for sound production in captivity to contribute to a catalogue of known fish sounds to inform regional passive acoustic studies. Acoustics '17 Boston, 173rd Meeting of the Acoustical Society of America and the 8th Forum Acusticum, Boston MA, 25-29 June 2017.

Looby, A., Cox, K., Rountree, R., Juanes, F., Martin, C.W. and Reynolds, L.K., 2019, November. A global review of tested and reported sound production in fishes. In 2019 CERF Biennial Conference. CERF.

****Note**, I've stopped adding citations for presentations**

EXTRACURRICULAR ACTIVITIES

Varsity Track, West Carteret High School, 1977-79.

Varsity Soccer, West Carteret High School, 1979.

Cross Country Club, West Carteret High School, 1979.

Cross Country Team, University of North Carolina at Wilmington, 1979-80.

Biology Club, University of North Carolina at Wilmington, 1980-83.

Editor, UNCW Journal of Undergraduate Research in the Sciences: FORAM, 1982-83.

Secretary/treasurer, Marine Biology Graduate Student Association of the College of Charleston, 1984-85.

Chairman, Grants and Proposals Committee, Marine Biology Graduate Student Association of the College of Charleston, 1985-1986. (See Grants above).

Christian Education Committee, North Falmouth Congregational Church, 1999 - 2007. Chair, 2001 - 2005.

Outreach Committee, North Falmouth Congregational Church, 2008 - present.

UNDERGRADUATE RESEARCH EXPERIENCE

Marine polychaetes of an eelgrass (*Zostera marina*) community in Bogue Sound, North Carolina. Report in partial completion of requirements for a Directed Individual Study Program under Dr. Anne B. McCrary, August 1981.

The use of high-voltage photography as a technique for detecting subsurface electrical inhomogeneities in materials. Report in partial completion of requirements for a Directed Individual Study Program under Dr. Timothy W. Haywood, May 1982. Received the first place CASCAS John Bowley Derieux Research Award given by the Collegiate Academy of the North Carolina Academy of Science, April 1982. Funded by a CASCAS John Yarborough Memorial Undergraduate Research Grant and by a University of North Carolina at Wilmington Research Fellowship for 1981-1982.

The use of high-voltage photography for materials testing. II. Distinguishing materials irrespective of surface phenomena. Report in partial completion of requirements for a Directed Individual Study Program under Dr. Timothy W. Haywood, May 1983. Funded by a CASCAS John Yarborough Memorial Undergraduate Research Grant for 1982-83.

The ecology of *Stomolophus meleagris*, the cannonball jellyfish, and its symbionts, with special emphasis on behavior. Submitted in partial fulfillment of the requirements of the Honors Program in the Department of Biological Sciences, the University of North Carolina at Wilmington, Wilmington, North Carolina, April 1983. David G. Lindquist, Faculty Supervisor. Awarded the second place CASCAS John Bowley Derieux Research Award April, 1983. The study was funded by a CASCAS John Yarborough Memorial Undergraduate Research Grant and by a University of North Carolina at Wilmington Research Fellowship for 1982-1983.

REFERENCES

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