

1. NAME: JONATHAN A. HARE

U.S. Citizen

Registered for Selective Service in 1983

2. PROFESSIONAL ADDRESS:

NOAA National Marine Fisheries Service
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3. CURRENT TITLE/POSITION/GRADE

Science and Research Director – Northeast Fisheries Science Center, SES

4. EDUCATIONAL HISTORY

Degrees

Ph.D. Oceanography, State University of New York at Stony Brook. 1994.
B.A. Biology, Wesleyan University, Middletown, Connecticut. 1987.

Professional Development

Fundamentals of Finance for the Technical Executive – October 2017 – Instructor: Paul Mende, MIT Sloan School of Management
Leadership for the 21st Century – February 2016 – Instructor: Hugh O’Doherty, Harvard Kennedy School
NOAA NMFS Core Policy Training – March 2011, September 2014 – Instructor: Julie Champlin-Gonzales, Southwest Regional Office
Ecological and Environmental Sampling – Web-based course - March 2011 – Instructor: Brian Manly - Western EcoSystem Technology
Statistical Analysis Using R – Web based course - April-May 2007 – Instructor: John Verzani - College of Staten Island
Model selection and multimodel inference – a practical information-theoretic approach – Short course – March 2007 – Instructor: David Anderson - Colorado Cooperative Fish and Wildlife Research Unit (USGS-BRD)

5. PROFESSIONAL HISTORY

Science and Research Director (October 2016 – present) – NOAA NMFS Woods Hole Laboratory – Lead science and research operations and strategy for Northeast Fisheries Science Center. Oversee 5 facilities and ~450 staff working on issues related to fisheries, aquaculture, protected species, habitat, and ecosystems. Responsible for providing science in support of living marine resources for the Northeast U.S. Shelf Large Marine Ecosystem, which extends from Maine to North Carolina from watersheds to the open ocean.

Supervisory Research Oceanographer – Oceanography Branch Chief (June 2008 to June 2015) renamed Oceans and Climate Branch (June 2016 to October 2016) – NOAA NMFS NEFSC Narragansett Laboratory – Supervise 15-20 staff involved in oceanographic monitoring and research. Oversee operational oceanography programs for the NEFSC including the Ecosystem Monitoring Program and hydrographic monitoring activities. Lead research on incorporating oceanographic information into fishery and protected species assessments.

Director, NOAA Narragansett Laboratory (June 2012 to September 2016) – Oversee Laboratory functions and operations for ~55 staff representing all but 1 of the NEFSC Divisions and Programs. Develop and sustain a creative scientific atmosphere that supports NOAA's mission. Build and foster partnerships with other marine science institutions in the region. Lead and coordinate congressional interactions working with NEFSC Leadership and NOAA's Office of Legislative Affairs.

Supervisory Research Oceanographer – Acting Ecosystems Processes Division Chief (June 2015 - 2016) - Manage personnel and research resources of Division with ~30 federal staff and ~30 affiliate staff working at five locations in the NEFSC. Manage Division research to determine relationships between the quality and abundance of living marine resources and their natural ecosystems. Includes monitoring, retrospective analyses, laboratory studies, and cooperative research. Manage division studies of the chemical, physical, and ecological interactions between living marine resources and environmental contaminants.

Supervisory Research Marine Scientist – Plankton Investigation Chief (February 2005 to June 2008) - NOAA NMFS NEFSC Narragansett Laboratory – Supervise 8-12 federal employees, contractors and post-docs. Oversee plankton monitoring and research group for the Northeast Fisheries Science Center. Conduct research examining i) the biological and physical processes that drive the dynamics of marine fishes, ii) biological-physical coupling in the marine environment, and iii) larval fish and invertebrate ecology and taxonomy.

Research Fishery Biologist (August 1997 to February 2005) - NOAA NOS Center for Coastal Fisheries and Habitat Research – Serve as Leader for Fisheries Oceanography and Ecology Team 2002-2005. Conduct and lead research into the biological and physical processes that drive the dynamics of marine fishes and determine the structure of marine fish communities; examine biological-physical coupling in the marine environment; study larval fish ecology and taxonomy.

National Research Council Research Associate (October 1994 to August 1997) - NOAA Beaufort Laboratory – Examined physical and biological mechanisms responsible for the cross-shelf transport of larval fishes on the southeast U.S. continental shelf.

Graduate Research Assistant - SUNY Stony Brook (September 1988 – October 1994) – Robert K. Cowen (Advisor) - Researched the processes affecting the larval survival and recruitment of bluefish along the east coast of the United States.

6. AWARDS

Professional Awards

Honorable Mention for Climate Adaptation Leadership Awards for Natural Resources (w/ 14 other NOAA employees) - *NMFS Fish Stock Climate Vulnerability Assessment Team developed the first standardized U.S. methodology for assessing the climate vulnerability of US managed marine fish stocks*

NOAA Bronze Medal Award (w/ 14 other NOAA employees) - *For successful completion in NOAA of the first Climate Change Vulnerability Assessment of fish and invertebrates – February 2017*

Environment Award – Rhode Island Saltwater Anglers Association – January 2017

2011 OAR Outstanding Scientific Paper Award – November 2013

Forecasting the dynamics of a coastal fishery species using a coupled climate population model. Ecological Applications 20: 452-464, <http://dx.doi.org/10.1890/08-1863.1>

NEFSC Supervisor of the Year Award – April 2007, April 2010

NOAA Administrator Award – May 2003

W.F. Thompson Award, American Institute of Fishery Research Biologists - August 1999

Sally Richardson Award for Best Student Paper, Larval Fish Conference - June 1994

Northeast Fish and Wildlife Conference Best Student Paper - April 1993

Sally Richardson Award for Best Student Paper, Larval Fish Conference - June 1991.

Fellowships

National Research Council Research Associateship - 1994 - *renewed in 1995 & 1996.*

New York Sea Grant Institute Thesis Completion Award – 1994.

Hudson River Foundation Doctoral Fellowship – 1993.

American Fishing Tackle Manufacturers Association, Andrew J. Boehm Fellowship – 1993.

Sounds Conservancy Grant in Marine Conservation, Education and Research –1993.

American Museum of Natural History, Lerner Gray Fund for Marine Research – 1992.

Competitive Grants and Funding Awards

NMFS Habitat Assessment Improvement Plan (HAIP) Working Group - *A Habitat Climate Vulnerability Assessment – Development and Northeast U.S. Implementation* - Jonathan Hare, Mike Johnson, Diane Borggaard, Vince Guida, Dave Packer – 2017-2019

NOAA Ocean Acidification Program - *Monitoring of water column DIC, TA and pH on the NE US shelf and the development of OA Indicators to inform marine resource managers* – Jonathan Hare, Nathan Rebeck, and Chris Melrose – 2015-2017

Improve a Stock Assessment - *An examination of inter-annual trends and stock structure to improve the Red Hake stock assessment* - Jonathan Hare, Katrin Marancik, Katherine Sosebee, and Michele Travers – 2015-2016

NMFS Habitat Assessment Improvement Plan (HAIP) Working Group - *Physiological ecology and habitat suitability: combining experiments and surveys to inform stock assessments* – Jonathan Hare, Grace Saba, John Manderson, Mark Wuenschel – 2014-2015

Advanced Sampling Technology Working Group (NMFS) - *Development of benchtop optical techniques to support NMFS plankton sampling programs* – Jonathan Hare, Jeffrey Napp, and Joanne Lyczkowski-Shultz - 2012.

International Science Program (NMFS) - *Gaining an international perspective on ecosystem surveys: participation in a cross-Atlantic EURO-BASIN cruise* – Jonathan Hare, and Michael St. John - 2011

NMFS Habitat Assessment Improvement Plan (HAIP) Working Group - *Incorporating measures of habitat area into stock assessments: a case study with winter flounder and summer flounder* - Jonathan Hare and John Manderson - 2011

Fisheries and the Environment (NMFS) – *Improving fishery-independent acoustic and larval indices for use in the upcoming benchmark Atlantic herring assessment*. Jonathan Hare, James Churchill, David Richardson, Michael Jech, Jonathan Deroba, and Harvey Walsh - 2011

Fisheries and the Environment (NMFS) – *The Mid-Atlantic cold pool and stock assessments: developing environmental indices at the range limit of species* - David Richardson, Jonathan Hare, Larry Jacobsen, Chris Legault, David Mountain, Janet Nye - 2010

Climate Data Modernization Program (NOAA) - *Historical Fisheries Data Rescue in the Northeast United States* – Jonathan Hare, Nancy Kohler, Jason Link, Patricia Pinto da Silva. 2009

Advanced Sampling Technology Working Group (NMFS) – *Development and evaluation of new technology for the remote identification and enumeration of larval fish* – Jonathan Hare and Robert Cowen. 2008

Fisheries and the Environment (NMFS) – *Developing zooplankton and larval indices for use in Atlantic herring (*Clupea harengus*) stock assessments* - Jonathan Hare, William Overholtz and Kenneth Able. 2007.

National Sea Grant Program. *Is growth a reliable indicator of essential fish habitat?* – Dave Eggleston, Jonathan Hare, and Steven Searcy – 2002.

Center for Coastal Ocean Sponsored Research, South Florida Ecosystem Research and Monitoring Program – *Development of spatially-explicit models to predict growth-potential of age-0 gray snapper, Lutjanus griseus, in Florida Bay during restoration of freshwater flows*. Jonathan Hare, Lawrence Settle and Mark Wuenschel – 2002.

Center for Coastal Ocean Sponsored Research, Gulf of Mexico Ecosystems & Hypoxia Assessment – *Development of larval fish vertical distribution models for use with physical transport models, biological production models, and hypoxia effect models in the Northern Gulf of Mexico* - Jonathan Hare and John Govoni - 2001

National Sea Grant Program, Virginia Sea Grant Program – *Fisheries habitat: identifying larval sources and essential fish habitat of juvenile snappers along the southern coast of the United States* – Simon Thorrold, Luiz R. Barbieri, Robert K. Cowen, Jonathan A. Hare, Cynthia Jones, and Su Sponaugle – 2000.

National Science Foundation, Biological Oceanography – *Recruitment of marine fish larvae to estuarine nursery systems: insights from high resolution analysis of otolith chemistry and hydrodynamics* – Cynthia Jones, Simon Thorrold, Arnoldo Valle-Levinson and Jonathan Hare - Old Dominion University – 1999.

National Undersea Research Center Wilmington, Development Grant – *Use of a novel gear type to evaluate the association of juvenile scombroids with the Gulf Stream front.* – Jonathan Hare and John Govoni – 1996.

7. PUBLICATIONS

Peer-Reviewed Journal Publications – Senior Author

1. **Hare JA**, Cowen RK. 1991. Expatriation of *Xyrichtys novacula* (Pisces: Labridae) larvae: Evidence of rapid cross-slope exchange. *Journal of Marine Research* 49:801-823. <http://dx.doi.org/10.1357/002224091784995675>
2. **Hare JA**, Cowen RK. 1993. Ecological and evolutionary implications of the larval transport and reproductive strategy of bluefish *Pomatomus saltatrix*. *Marine Ecology Progress Series* 98:1-16. <http://dx.doi.org/10.3354/meps098001>
3. **Hare JA**, Cowen RK. 1994. Ontogeny and otolith microstructure of bluefish *Pomatomus saltatrix* (Pisces: Pomatomidae). *Marine Biology* 118:541-550. <http://dx.doi.org/10.1007/BF00347500>
4. **Hare JA**, Cowen RK, Zehr JP, Juanes F, Day KH. 1994. Biological and oceanographic insights from larval labrid (Pisces: Labridae) identification using mtDNA sequences. *Marine Biology* 118:17-24. <http://dx.doi.org/10.1007/BF00699215>
Hare JA, Cowen RK, Zehr JP, Juanes F, Day KH. 1998. A correction to: Biological and oceanographic insights from larval labrid (Pisces: Labridae) identification using mtDNA sequences. *Marine Biology* 130:589-592. <http://dx.doi.org/10.1007/s002270050280>
5. **Hare JA**, Cowen RK. 1995. Effect of age, growth rate and ontogeny on the otolith size-fish size relationship in bluefish, *Pomatomus saltatrix*, and the implications for backcalculation of size in the early life history stages of fishes. *Canadian Journal of Fisheries and Aquatic Sciences* 52:1909-1922. <http://dx.doi.org/10.1139/f95-783>
6. **Hare JA**, Cowen RK. 1996. Transport mechanisms of bluefish (*Pomatomus saltatrix*) larvae from South Atlantic Bight spawning grounds to Middle Atlantic Bight nursery

habitats. *Limnology and Oceanography* 41:1264-1280.
<http://dx.doi.org/10.4319/lo.1996.41.6.1264>

7. **Hare JA**, Cowen RK. 1997. Size, growth, development and survival of the planktonic larvae of *Pomatomus saltatrix* (Pisces: Pomatomidae). *Ecology* 78:2415-2431.
[http://dx.doi.org/10.1890/0012-9658\(1997\)078\[2415:SGDASO\]2.0.CO;2](http://dx.doi.org/10.1890/0012-9658(1997)078[2415:SGDASO]2.0.CO;2)
8. **Hare JA**, Quinlan JA, Werner FE, Blanton BO, Govoni JJ, Forward RB, Settle LR, Hoss DE. 1999. Larval transport during winter in the SABRE study area: results of a coupled vertical larval behavior-three-dimensional circulation model. *Fisheries Oceanography*. 8 (supplement):57-76. <http://dx.doi.org/10.1046/j.1365-2419.1999.00017.x>
9. **Hare JA**, Fahay MP, Cowen RK. 2001. Springtime ichthyoplankton of the slope region off the north-eastern United States of America: larval assemblages, relation to hydrography and implications for larval transport. *Fisheries Oceanography* 10: 164-192. <http://dx.doi.org/10.1046/j.1365-2419.2001.00168.x>
10. **Hare JA**, Hoss DE, Powell AB, Konieczna M, Peters DS, Cummings SR, Robbins RE. 2001. Larval distribution and abundance of the family Scombridae and Scombrolabracidae in the vicinity of Puerto Rico and the Virgin Islands. *Bulletin of the Sea Fisheries Institute* 153(2):13-30. <http://www.mir.gdynia.pl/pliki/osrodek/biuletyn/biulet2-01.pdf>
11. **Hare JA**, Churchill JH, Cowen RK, Berger T, Cornillon P, Dragos P, Glenn S, Govoni JJ, Lee TN. 2002. Routes and rates of larval fish transport from the southeastern to the mid-Atlantic North American continental shelf. *Limnology and Oceanography* 47:1774-1789. <http://dx.doi.org/10.4319/lo.2002.47.6.1774>
12. **Hare JA**, Govoni JJ. 2005. Vertical distribution and the outcome of larval fish transport along the southeast United States continental shelf during winter. *Fishery Bulletin* 103: 728-736. <http://fishbull.noaa.gov/1034/hare.pdf>
13. **Hare JA**, Thorrold ST, Walsh H, Reiss C, Valle-Levinson A, Jones C. 2005. Bio-physical mechanisms of larval fish ingress into Chesapeake Bay. *Marine Ecology Progress Series* 303: 295-310. <http://dx.doi.org/10.3354/meps303295>
14. **Hare JA**, Walsh HJ, Wuenschel MJ. 2006. Sinking rates of late-stage fish larvae ingressing into estuarine nursery habitats. *Journal of Experimental Marine Biology and Ecology* 330: 493-504. <http://dx.doi.org/10.1016/j.jembe.2005.09.011>
15. **Hare JA**, Able KW. 2007. Mechanistic links between climate and fisheries along the east coast of the United States: explaining population outbursts of Atlantic croaker (*Micropogonias undulatus*). *Fisheries Oceanography* 16: 31-45.
<http://dx.doi.org/10.1111/j.1365-2419.2006.00407.x>

16. **Hare JA**, Walsh HJ. 2007. Planktonic linkages among Marine Protected Areas on the south Florida and southeast United States continental shelf. *Canadian Journal of Fisheries and Aquatic Sciences* 64: 1234-1247. <http://dx.doi.org/10.1139/f07-089>
17. **Hare JA**, Alexander M, Fogarty M, Williams E, Scott J. 2010. Forecasting the dynamics of a coastal fishery species using a coupled climate-population model. *Ecological Applications* 20: 452-464. <http://dx.doi.org/10.1890/08-1863.1>
18. **Hare JA**, Manderson J, Nye J, Alexander M, Auster PJ, Borggaard D, Capotondi A, Damon-Randall K, Heupel E, Mateo I, O'Brien L, Richardson D, Stock C, Biegel ST. 2012. Cusk (*Brosme brosme*) and climate change: assessing the threat to a candidate marine fish species under the U.S. Endangered Species Act. *ICES Journal of Marine Science* 69:1753-1768. <http://dx.doi.org/10.1093/icesjms/fss160>
19. **Hare JA**, Wuenschel MJ, Kimball ME. 2012. Projecting range limits with coupled thermal tolerance - climate change models: an example based on gray snapper (*Lutjanus griseus*) along the U.S. East Coast. *PLoS ONE* 7(12): e52294. <http://dx.doi.org/10.1371/journal.pone.0052294>
20. **Hare JA**. 2014. The future of fisheries oceanography lies in the pursuit of multiple hypotheses. *ICES Journal of Marine Science* 71: 2343-2356. <http://dx.doi.org/10.1093/icesjms/fsu018>
21. **Hare JA**, Brooks EN, Palmer MC, Churchill JH. 2015. Re-evaluating the effect of wind on recruitment in Gulf of Maine Atlantic Cod (*Gadus morhua*) using an environmentally-explicit stock recruit model. *Fisheries Oceanography* 24: 90–105. <http://dx.doi.org/10.1111/fog.12095>
22. **Hare JA**, Morrison WE, Nelson MW, Stachura MM, Teeters EJ, Griffis RB, Alexander MA, Scott JD, Alade L, Bell RJ, Chute AS, Curti KL, Curtis TH, Kircheis D, Kocik JF, Lucey SM, McCandless CT, Milke LM, Richardson DE, Robillard E, Walsh HJ, McManus MC, Marancik KE, Griswold CA. 2016. A vulnerability assessment of fish and invertebrates to climate change on the Northeast U.S. Continental Shelf. *PLoS ONE* 11(2): e0146756. <http://dx.doi.org/10.1371/journal.pone.0146756>

Peer-Reviewed Journal Publications – Junior Author

1. Cowen RK, **Hare JA**, Fahay MP. 1993. Beyond hydrography: Can physical processes explain larval fish assemblages within the Middle Atlantic Bight? *Bulletin of Marine Science* 53:567-587.

2. Juanes F, **Hare JA**, Miskiewicz AT. 1996. Comparing early life history strategies of *Pomatomus saltatrix*: a global approach. *Marine and Freshwater Research* 47:365-379
3. Marks RE, Juanes F, **Hare JA**, Conover DO. 1996. The occurrence and effect of the parasitic isopod *Lironeca ovalis* (Isopoda, Cymothoidae), on young-of-the-year bluefish, *Pomatomus saltatrix* (Pisces, Pomatomidae). *Canadian Journal of Fisheries and Aquatic Sciences* 53: 2052-2057.
4. Hettler WF, **Hare JA**. 1998. Abundance and size of larval fishes outside the entrance to Beaufort Inlet, North Carolina. *Estuaries* 21: 476-499.
5. Begg GA, **Hare JA**, Sheehan DD. 1999. The role of life history parameters as indicators of stock structure. *Fisheries Research* 43:141-163.
6. Powell AB, Lindquist DG, **Hare JA**. 2000. Larval and pelagic juvenile fishes collected with three types of gear in Gulf Stream and shelf waters off North Carolina. *Fishery Bulletin* 98: 427-438.
7. Rogers JS, **Hare JA**, Lindquist DG. 2001. The otolith record of age, growth and ontogeny in larval and pelagic juvenile *Stephanolepis hispidus* (Pisces: Monacanthidae). *Marine Biology* 138: 945-953.
8. Whitfield P, Gardner T, Vives SP, Gilligan MR, Courtenay WR., Ray GC, **Hare JA**. 2002. Biological invasion of the Indo-Pacific lionfish (*Pterois volitans*) along the Atlantic coast of North America. *Marine Ecology Progress Series* 235:289-297.
9. Govoni JJ, Laban EH, **Hare JA**. 2003. Age, growth, and early life history of swordfish, *Xiphias gladius*, in the Western North Atlantic. *Fishery Bulletin*. 101:778-789.
10. Tzeng MW, **Hare JA**, Lindquist DG. 2003. Ingress of transformation stage gray snapper, *Lutjanus griseus* (Pisec: Lutjanidae) through Beaufort Inlet, North Carolina. *Bulletin of Marine Science* 72: 891-908.
11. Wuenschel MJ, Jugovich AR, **Hare JA**. 2004. Effect of temperature and salinity on feeding and growth of juvenile gray snapper (*Lutjanus griseus*): implications for nursery habitat value. *Journal of Experimental Marine Biology and Ecology* 312: 333-347.
12. Kimball ME, Miller JM, Whitfield PE, **Hare JA**. 2004. Using temperature tolerance to predict the distribution of the invasive lionfish (*Pterois volitans/miles* complex) on the east coast of the United States. *Marine Ecology Progress Series* 283: 269-278.

13. Fey DP, Bath GE, Morris JA, **Hare JA**. 2005. Effect of otolith type and preparation technique on age estimation of larval and juvenile spot (*Leiostomus xanthurus*). Fishery Bulletin 103: 544-552
14. Fey DP, **Hare JA**. 2005. Length correction of larval and early-juvenile Atlantic menhaden (*Brevoortia tyrannus*) after preservation in alcohol. Fishery Bulletin 103: 725-727.
15. Hawn AT, Martin GB, Sandin SA, **Hare JA**. 2005. Early juvenile mortality in the coral reef fish *Chromis cyanea* (Pomacentridae): the growth-mortality hypothesis revisited. Bulletin of Marine Science 77:309-318.
16. Marancik KE, Clough L, **Hare JA**. 2005. Cross-shelf and seasonal variation in larval fish assemblages in the Georgia Bight region of the southeast United States continental shelf. Fishery Bulletin 103: 108-129.
17. Weunschel MJ, Jugovich AR, **Hare JA**. 2005. Metabolic response of juvenile gray snapper (*Lutjanus griseus*) to temperature and salinity: physiological costs of different environments. Journal of Experimental Marine Biology and Ecology 321: 145-154.
18. Edwards KP, **Hare JA**, Werner FE, Blanton BO. 2006. Lagrangian circulation on the southeast US continental shelf: implications for larval dispersal and retention. Continental Shelf Research 26: 1375-1394.
19. Ferguson RL, Krouse C, Patterson M, **Hare JA**. 2006. Automated thematic registration of NOAA, CoastWatch, and AVHRR images. Photogrammetric Engineering and Remote Sensing 72: 677-685.
20. Powles PM, **Hare JA**, Laban EH, Warlen SM. 2006. Does eel metamorphosis cause a breakdown in the tenets of otolith applications? A case study using the speckled worm eel (*Myrophis punctatus*, Ophichthidae). Canadian Journal of Fisheries and Aquatic Sciences 63: 1460-1468.
21. Sullivan MC, Able KW, **Hare JA**, Walsh HJ. 2006. *Anguilla rostrata* glass eel ingress into two, U.S. east coast estuaries: patterns, processes and implications for adult abundance. Journal of Fish Biology 69: 1081-1101.
22. Thorrold SR, Jones GP, Planes SR, **Hare JA**. 2006. Trans-generational labeling of embryonic otoliths in marine fish via maternal transmission of enriched stable isotopes. Canadian Journal of Fisheries and Aquatic Sciences 63: 1193-1197.

23. Walsh HJ, Marancik KE, **Hare JA**. 2006. Juvenile fish assemblages collected on unconsolidated sediments of the southeast United States continental shelf. *Fishery Bulletin* 104: 256-277.
24. Weunschel MJ, Jugovich AR, **Hare JA**. 2006. Estimating the energy density of fish: the importance of ontogeny. *Transactions of American Fisheries Society* 135: 379-385.
25. Whitfield PE, **Hare JA**, David AW, Harter SL, Muñoz, Addison CM. 2006. Abundance estimates of the Indo-Pacific lionfish *Pterois volitans/miles* complex in the Western North Atlantic. *Biological Invasions*. DOI 10.1007/s10530-006-9004-9.
26. Edwards KP, **Hare JA**, Werner FE, Seim H. 2007. Using two-dimensional dispersal kernels to identify the dominant influences on larval dispersal on continental shelves. *Marine Ecology Progress Series* 353: 77-87.
27. Friedland KD, **Hare JA**. 2007. Long term trends and regime shifts in sea surface temperature on the continental shelf of the Northeast United States. *Continental Shelf Research* 27: 2313-2328.
28. Marancik KE, **Hare JA**. 2007. Large-scale patterns in fish trophodynamics of estuarine and shelf habitats of the southeast United States. *Bulletin of Marine Science* 80: 67-91.
29. Pineda J, **Hare JA**, Sponaugle S. 2007. Larval transport and dispersal in the coastal ocean and consequences for population connectivity. *Oceanography* 20: 24-41.
30. Searcy SE, Eggleston DE, **Hare JA**. 2007. Is growth a reliable indicator of habitat quality and Essential Fish Habitat for a juvenile estuarine fish? *Canadian Journal of Fisheries and Aquatic Sciences* 64: 681-691. DOI 10.1139/F07-038.
31. Searcy SE, Eggleston DE, **Hare JA**. 2007. Environmental influences on the relationship between juvenile and larval growth for Atlantic croaker, *Micropogonias undulatus*. *Marine Ecology Progress Series* 349: 81-88.
32. Edwards KP, **Hare JA**, Werner FE. 2008. Dispersal of black sea bass (*Centropristis striata*) larvae on the southeast U.S. continental shelf: results of a coupled vertical larval behavior- 3D circulation model. *Fisheries Oceanography* 17: 299-315.
33. Fey DP, **Hare JA**. 2008. Fluctuating asymmetry in the otoliths of larval Atlantic menhaden (*Brevoortia tyrannus*) - a condition indicator. *Journal of Fish Biology* 72: 121-130.
34. Friedland KD, **Hare JA**, Wood GB, Col LA, Buckley LJ, Mountain DG, Kane J, Brodziak J, Lough RG, Pilskalns CH. 2008. Does the fall bloom control recruitment of Georges

Bank haddock, *Melanogrammus aeglefinus*, through parental condition? Canadian Journal of Fisheries and Aquatic Science 65: 1076–1086.

35. Vandersea MW, Litaker RW, Marancik KE, **Hare JA**, Walsh HJ, Lem S, West MA, Wyanski DM, Laban EH, Tester PA. 2008. Larval identification of sea basses (*Centropristis*) using ribosomal DNA specific PCR assays. Fishery Bulletin 106:183-193.
36. Drinkwater KF, Mueter FJ, Friedland KD, Taylor M, Hunt GL, **Hare JA**, Melle W. 2009. Recent climate forcing and physical oceanographic changes in Northern Hemisphere regions: A review and comparison of four marine ecosystems. Progress in Oceanography 81:10-28.
37. Hernandez FJ, **Hare JA**, Fey DP. 2009. Evaluating diel, ontogenetic and environmental effects on larval fish vertical distribution using generalized additive models for location, scale and shape (GAMLSS). Fisheries Oceanography 18: 224-236
38. Link JS, Stockhausen WT, Skaret G, Overholtz W, Megrey BA, Gjøsæter H, Gaichas S, Dommasnes A, Falk-Petersen J, Kane J, Mueter FJ, Friedland KD, **Hare JA**. 2009. A comparison of biological trends from four marine ecosystems: Synchronies, differences, and commonalities 81: 29-46.
39. Megrey BA, **Hare JA**, Stockhausen WT, Dommasnes A, Gjøsæter H, Overholtz W, Gaichas S, Skaret G, Falk-Petersen J, Link JS, Friedland KD. 2009. A cross-ecosystem comparison of spatial and temporal patterns of covariation in the recruitment of functionally analogous fish stocks. Progress in Oceanography 81: 63-92
40. Mueter FJ, Broms C, Drinkwater KF, Friedland KD, **Hare JA**, Hunt GL, Melle W, Taylor M. 2009. Ecosystem responses to recent oceanographic variability in high-latitude Northern Hemisphere ecosystems. Progress in Oceanography 81: 93-110.
41. Nye JA, Link JS, **Hare JA**, Overholtz WJ. 2009. Changing spatial distribution of fish stocks in relation to climate and population size on the Northeast United States continental shelf. Marine Ecology Progress Series 393:111-129
42. Taylor JC, Mitchell WA, Buckel JA, Walsh HJ, Shertzer KW, Martin GB, **Hare JA**. 2009. Relationships between larval and juvenile abundance of winter-spawned fishes in North Carolina, USA. Marine and Coastal Fisheries 1: 11-20.
43. Wood AJ, Collie JS, **Hare JA**. 2009. A comparison between warm-water fish assemblages of Narragansett Bay and those of Long Island Sound waters. Fishery Bulletin 107: 89-100.

44. Govoni JJ, **Hare JA**, Davenport ED, Chen MH, Marancik KE. 2010. Mesoscale, cyclonic eddies as larval fish habitat along the southeast United States shelf: a Lagrangian description of the zooplankton community. *ICES Journal of Marine Science* 67:403-411.
45. Richardson DE, **Hare JA**, Overholtz WJ, Johnson DL. 2010. Development of long-term larval indices for Atlantic herring (*Clupea harengus*) on the northeast U.S. continental shelf. *ICES Journal of Marine Science* 67:617-627.
46. Able KW, Sullivan MC, **Hare JA**, Bath-Martin G, Taylor JC, Hagan R. 2011. Larval abundance of summer founder (*Paralichthys dentatus*) as a measure of recruitment and stock status. *Fishery Bulletin* 109: 68-78
47. Able KW, Allen DM, Bath-Martin G, **Hare JA**, Hoss DE, Marancik KE, Powles PM, Richardson DE, Taylor JC, Walsh HJ. 2011. Life history and habitat use of the speckled worm eel, *Myrophis punctatus*, along the east coast of the United States. *Environmental Biology of Fishes* 92: 237-259
48. Link JS, Nye JA, **Hare JA**. 2011. Guidelines for incorporating fish distribution shifts into a fisheries management context. *Fish and Fisheries* 12: 461–469 - doi: 10.1111/j.1467-2979.2010.00398.x.
49. Overholtz WJ, **Hare JA**, Keith CM. 2011. Impacts of interannual environmental forcing and climate change on the distribution of Atlantic mackerel on the U.S. Northeast Continental Shelf. *Marine and Coastal Fisheries* 3:219–232.
50. Stock CA, Alexander MA, Bond NA, Brander K, Cheung WWL, Curchitser EN, Delworth TL, Dunne JP, Griffies SM, Haltuch MA, **Hare JA**, Hollowed AB, Lehodey P, Levin SA, Link JS, Rose KA, Rykaczewski RR, Sarmiento JL, Stouffer RJ, Schwing FB, Vecchi GA, Werner FE. 2011. On the use of IPCC-class models to assess the impact of climate on living marine resources. *Progress in Oceanography* 88: 1-27.
51. Johnson CL, Runge JA, Curtis KA, Durbin EG, **Hare JA**, Incze LS, Link J, Melvin GD, O'Brien TD, Van Guelpen L. 2011. Biodiversity and ecosystem function in the Gulf of Maine: pattern and role of zooplankton and pelagic nekton. *PLoS ONE* 6(1): e16491. doi:10.1371/journal.pone.0016491
52. Link JS, Bundy A, Overholtz WJ, Shackell N, Manderson J, Duplisea D, **Hare JA**, Koen-Alonso M, Friedland KD. 2011. Ecosystem-based fisheries management in the Northwest Atlantic. *Fish and Fisheries* 12: 152–170.
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Book Reviews

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Peer-Reviewed Reports

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2. Bode A, **Hare JA**, Li WKW, Morán XAG, Valdés L. 2011. Chlorophyll and primary production in the North Atlantic. p. 77-102. In: Reid PC, Valdés, L (eds). ICES status report on climate change in the North Atlantic. ICES Cooperative Research Report No. 310. 262 pp. <http://www.ices.dk/pubs/crr/crr310/CRR%20310%20Climate%20Change.pdf>
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Non-Peer Reviewed Reports

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Maryland, 28 pp.

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4. Friedland KD, O'Reilly JE, **Hare JA**, Woods GB, Overholtz WJ, Cieri MD. 2006. Environmental preferences of herring under changing harvest regimes. Northeast Fisheries Science Center Reference Document 06-18.
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5. **Hare JA**, Taylor M. 2008. Northeast U.S. Continental Shelf. pp. 11-30. *In*: Osgood KE (editor). Climate Impacts on U.S. Living Marine Resources: National Marine Fisheries Service Concerns, Activities and Needs. U.S. Department of Commerce, NOAA Technical Memorandum NMFS-F/SPO-89.
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7. Reid PD, and 49 co-authors. 2009. A global Continuous Plankton Recorder programme. OceanObs'09 Community White Paper.
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9. BASIN 2011. Basin-scale Analysis, Synthesis, and Integration: North Atlantic Implementation Plan. Wiebe PH, Werner FE, **Hare JA**, Zhou M (Eds). 50 pages
(<http://www.na-basin.org/reports/BASIN-NAIPweb.pdf>)
10. Ecosystem Assessment Program (**Hare as co-author**). 2012. Ecosystem Status Report for the Northeast Shelf Large Marine Ecosystem - 2011. Northeast Fisheries Science Center Reference Document 12-07.
(<http://www.nefsc.noaa.gov/nefsc/publications/crd/crd1207/crd1207.pdf>)

11. NOAA Fisheries Climate Science Strategy. 2015. Link JS, Griffis R, Busch S (Eds) (**Hare as contributor**). NOAA Technical Memorandum NMFS-F/SPO-155, 70p. (https://www.st.nmfs.noaa.gov/Assets/ecosystems/climate/documents/NCSS_Final.pdf)
12. Report of a Workshop on Best Approaches and Needs for Projecting Marine Mammal Distributions in a Changing Climate. 2016. Silber GK, Lettrich M, Thomas PO (Eds) (**Hare as a contributor**). NOAA Technical Memorandum NMFS-OPR-54, 50 p. (http://www.nmfs.noaa.gov/pr/publications/techmemo/climate_change_and_marine_mammals_workshop_rept_noaa_tech_memo_opr54.pdf)

8. PRESENTATIONS

Seminars and Invited Presentations

School of Marine Science and Technology, University of Massachusetts Dartmouth, November 2017

New England Aquarium Lecture Series, November 2017

Southern New England Chapter American Fisheries Society 50th Anniversary Meeting, Plenary Speaker, February 2017

Woods Hole Oceanographic Institution, Biology Department Seminar Series, July 2017

Chesapeake Biological Laboratory, February 2017

North Pacific Marine Science Organization, Early Life History Stages as Indicators and Predictors of Climate Variability and Ecosystem Change, November 2016

Virginia Institute of Marine Sciences, September 2016

Greater Atlantic Regional Fisheries Office, National Marine Fisheries Service, May 2016

Rutgers University, Department of Marine and Coastal Science, March 2015

School of Marine Science and Technology, University of Massachusetts Dartmouth, January 2014

NOAA Science Days – January 2014

Greater Atlantic Regional Fisheries Office, National Marine Fisheries Service, January 2014

Stellwagen Bank National Marine Sanctuary Advisory Council, June 2013

Larval Fish Conference, June 2013

NOAA NMFS NEFSC Woods Hole Laboratory, February 2013

Regional Association for Research on the Gulf of Maine Annual Meeting, October 2012

Northeast Regional Office, National Marine Fisheries Service, March 2011

NOAA Brown Bag Seminar, Silver Spring, Maryland, March 2011

NOAA Climate Science Board, Silver Spring, Maryland March 2011

NOAA NMFS NEFSC Sandy Hook Laboratory, January 2011

School of Marine Science and Technology, University of Massachusetts Dartmouth, December 2010

University of Rhode Island, Marine Biology Lecture, November 2010

Ocean Studies Board, National Research Council – Invited Speaker – July 2010

Gulf of Maine Science Symposium – Keynote Speaker – October 2009

Larval Fish Conference – Connectivity Workshop, July 2009
School of Marine Science and Technology, University of Massachusetts Dartmouth, December 2008
MARIBS Fisheries Information Product-Definition Workshop Plenary Speaker, November 2008
NOAA NMFS NEFSC Sandy Hook Laboratory, May 2008
University of Connecticut, Marine Sciences Program, February 2008
NOAA NMFS NEFSC Woods Hole Laboratory, December 2007
Dauphin Island Sea Laboratory, February 2007
NOAA NMFS NEFSC Woods Hole Laboratory, July 2006
School of Marine Science and Technology, University of Massachusetts Dartmouth, April 2006
Rutgers University, Institute of Marine Sciences, January 2006
NOAA NMFS NEFSC Woods Hole Laboratory, November 2005
NOAA NMFS NEFSC Sandy Hook Laboratory, August 2005
University of Rhode Island, Graduate School of Oceanography, April 2005
Woods Hole Oceanographic Institution, Biology Department Seminar, March 2004.
East Carolina University, Department of Biology – November 2003.
University of North Carolina Chapel Hill, Marine Science Department Seminar – April 2003.
Woods Hole Oceanographic Institution, Biology Department Seminar, May 2002.
Marine, Earth and Atmospheric Sciences Departmental Seminar, North Carolina State University - March 2002.
South Atlantic Fishery Management Council - Habitat Committee - March 2002.
Gray's Reef Sanctuary Advisory Council Meeting - March 2002.
Estuarine Research Federation - November 2001.
Pacific Fisheries Environmental Laboratory - August 2000.
Duke University Marine Laboratory Seminar Series - April 2000.
University of North Carolina, Chapel Hill, Department of Marine Sciences - April 2000.
Dalhousie University - Biological Oceanography Seminar Series - February 2000.
Duke University Marine Laboratory Seminar Series - December 1997.
Illinois Natural History Survey, Center for Aquatic Ecology - February 1997.
NOAA NMFS Sandy Hook Laboratory - August 1996.
University of Southwestern Louisiana, Department of Biology - April 1996.
University of North Carolina, Chapel Hill, Department of Marine Sciences - April 1996.
Old Dominion University, Department of Biology - March 1996.
University of North Carolina, Wilmington, Department of Biology - March 1996.
East Carolina University, Department of Biology - October 1995.
Wildlife Conservation Society - October 1995.
Dissertation Initiative for the Advancement of Limnology & Oceanography Symposium - December 1994.
NOAA NMFS Beaufort Laboratory - October 1994.
College of Charleston, Department of Biology - March 1994.
Hudson River Foundation - February 1994.

Scientific Meeting Presentations

Larval Fish Conference and American Fisheries Society – August 2014

Larval Fish Conference – June 2013
World Fisheries Congress – May 2012
American Fisheries Society – September 2011
Fisheries and the Environment Annual Science Meeting – August 2011
Southern New England Chapter Meeting of the American Fisheries Society – June 2011
PICES-2010 Annual Meeting – October 2010
American Fisheries Society – September 2010
Larval Fish Conference – May 2010.
PICES/ICES Symposium on Climate Change Effects in Fish and Fisheries – April 2010
Larval Fish Conference – August 2008.
Larval Fish Conference – September 2006.
Southern New England Chapter of American Fisheries Society Meeting – June 2006.
Larval Fish Conference - August 2001.
American Society of Limnology and Oceanography Winter Meeting - February 2001.
Federal Interagency Committee of the Geographic Information Coordinating Council,
February 2000.
CoastWatch Annual Meeting - November 1999.
Larval Fish Conference - April 1999.
American Society of Limnology and Oceanography Winter Meeting - February 1999.
American Fisheries Society Annual Meeting - August 1998.
Southeast Coastal Ocean Research Conference - April 1998.
American Society of Ichthyologists & Herpetologists/Larval Fish Conference - June 1997.
American Society of Limnology and Oceanography Winter Meeting - February 1997.
South Atlantic Bight Recruitment Experiment Annual Meeting - September 1996.
American Society of Ichthyologists & Herpetologists/Larval Fish Conference - June 1996.
Middle Atlantic Bight Physical Oceanography & Meteorology Workshop - November 1995.
South Atlantic Bight Recruitment Experiment Annual Meeting - October 1995.
International Larval Fish Conference - June 1995.
Larval Fish Conference - June 1994.
Middle Atlantic Bight Physical Oceanography & Meteorology Workshop - November 1993.
Larval Ecology Meetings - August 1993.
Northeast Fish & Wildlife Conference - April 1993.
Fish Otolith Research & Application Symposium - January 1993.
Larval Fish Conference - June 1992.
American Society of Ichthyologists & Herpetologists - June 1990.

OTHER

Graduate School of Oceanography Harpoon Seminar, April 2016
Graduate School of Oceanography Harpoon Seminar, April 2013
Graduate School of Oceanography Harpoon Seminar, March 2012

Poster presentations and junior-authored talks are not listed

9. PROFESSIONAL SERVICE

International

- Participant ICES/PICES Workshop - Global assessment of the implications of climate change on the spatial distribution of fish and fisheries – May 2013
- Co-convener World Fisheries Congress Theme Session - Science to underpin sustainable fisheries: An Ecosystem Approach – May 2012
- Co-Chair of the Workshop to Define the Ocean Observing Needs for ICES - March 2012
- Steering Committee Member of ICES Working Group Working Group on the Northwest Atlantic Regional Sea (WGNARS) – 2010, 2012
- Co-convener PICES Annual Science Conference Theme Session - Development and use of ocean observing and forecasting systems in coastal and marine management – October 2010
- Co-convener PICES/ICES Symposium on Climate Change Effects in Fish and Fisheries Session - Contemporary and next generation climate and oceanographic models, technical advances and new approaches – April 2010
- Co-organizer ICES Annual Science Conference Theme Session – Trends in chlorophyll and primary production in a warmer North Atlantic – September 2009
- Member of Census of Marine Life (CoML) Expert Group on Zooplankton and Pelagic Nekton of the Gulf of Maine - January 2009 to present
- Chair of ICES-IOC Steering Group on GOOS (Global Ocean Observing System) - September 2008 to September 2010
- Co-organizer - Recipes for Adaptation: Marine Management under Climate Change and Ocean Acidification – held at Conservation International, Arlington, Virginia, 18-19 May 2009
- Marine Ecology Progress Series Contributing Editor, May 2005 to February 2009.
- Substitute U.S. Delegate for ICES Advisory Committee on Ecosystems – May 2007
- Participant in BASIN Workshop (Basin-scale Analysis, Synthesis, and Integration) – May 2007
- Participant in MENU Workshop (Comparison of Marine Ecosystems of Norway and the U.S. – February 2007
- External Examiner for PhD Dissertation, Western Australia University, June 2006
- Participant in US/Canada Oceans Meeting – March 2006
- Marine Ecology Progress Series Review Editor, January 2004 to May 2005.
- Marine Ecology Progress Series Review Staff, December 2001 to 2004.
- Participant in US-Poland Joint Scientific Studies Advisory Committee Meeting – June 1998, June 2001, June 2004, May 2005, May 2006, April 2008, April 2009
- Co-organizer and Participant in US-Poland Joint Scientific Studies Advisory Committee Meeting – June 2002.
- Reviewer of Canadian GLOBEC Program, January 2000.
- External Examiner for Master Thesis, Dalhousie University, January 2000.
- External Examiner for Master Thesis, Memorial University of Newfoundland, January 2000.
- Participant in ICES Global Ocean Observing System Workshop - March 1999.
- Co-organizer of the Life History Strategies of *Pomatomus saltatrix* Symposium at the International Larval Fish Conference – June 1995.

Domestic

Invited Participant – Rhode Island Environmental Leaders Day – Our Changing Oceans: Climate, Change, Sustainable Fisheries and Our Future – September 2016
Presenter to Regional Tribal Operations Committee – July 2016
Presentation at New England Fishery Management Council – June 2016
Invited Participant - Accounting for the Impacts of Climate Change on Public Lands and Natural Resources under NEPA and Other Planning Processes - Sabin Center for Climate Change Law Columbia Law School – June 2016
Presentation at Mid-Atlantic Fishery Management Council – June 2016
Presentation at NOAA is New England Meeting – May 2016
Presentation at New England Fishery Management Council – May 2016
Presentation at New England Fishery Management Council – April 2016
Presentation at Mid-Atlantic Fishery Management Council – April 2016
Invited Speaker – Stellwagen Bank National Marine Sanctuary Advisory Council Meeting – March 2016
Invited presenter – Questioning Our Changing Oceans – Maine Fishermen’s Forum – March 2016
Scientific Steering Committee for 31st Wakefield Symposium *“Impacts of climate change and variability on the dynamics of high-latitude fish and shellfish”* – May 2017
Invited Participant Workshop on Best Approaches and Needs for Projecting Marine Mammal Distributions in a Changing Climate – January 2016
Invited Speaker Ecosystem Level Habitat Considerations Workshop, Mid-Atlantic Fishery Management Council – October 2015
Invited participant Environmental Defense Fund Workshop – Linking Environmental Stressors in Coastal and Marine Ecosystems – September 2015
Presentation at Mid-Atlantic Fishery Management Council Ecosystem Approaches to Fisheries Management Workshop – June 2015
Invited Speaker Application of Seasonal to Decadal Climate Predictions for Marine Resource Management Workshop – June 2015
Presentation to Northeast Regional Coordinating Council – May 2015
Presentations to Scientific and Statistical Committee of the New England Fishery Management Council – April 2015
Invited Speaker NOAA Research Council – March 2015
Invited Keynote Speaker 2015 National Scientific and Statistical Committee Workshop – February 2015
Presentation to Mid-Atlantic Fishery Management Council – February 2015
Invited Speaker Island Institute Predictive Capabilities Workshop – December 2014
Invited Speaker New England Fishery Management Council, Ecosystems Approaches to Management Committee - July 2014
Invited Speaker Council Coordinating Committee - May 2014
Invited Speaker East Coast Climate Change & Fisheries Governance Workshop - March 2014
Panel Member Mid-Atlantic Fisheries Management Council Climate Change and Fishery Science Workshop – February 2014
Participant U.S. Ocean Acidification Principal Investigators' Meeting – September 2013

Scientific Steering Committee Member for the CINAR Shelfbreak Ecosystem Workshop – January 2013

Presentations to New England Fisheries Management Council and Mid-Atlantic Fisheries Management Council - June 2012

Panel Member Metcalf Institute for Marine and Environmental Reporting, 13th Annual Science Immersion Workshop for Journalists – June 2011

Participant and Speaker at The Consequences of Temporal Variability and Climate Change on Management Actions in the Coastal Ecosystems of the New York Bight Workshop sponsored by New York Bight Sea Grant Regional Ocean Science Council, June 2010

President – Early Life History Section of the American Fisheries Society – August 2008 – May 2010

Panel member at Adaptive Management of Estuaries in the Face of Climate Change, sponsored by The Nature Conservancy, Save the Bay, RI-SeaGrant, Restore America's Estuaries, October 2008

Northeastern Regional Association of Coastal Ocean Observing Systems Board of Directors – Non Voting Member – February 2009 - present

Northeast Regional Coastal Ocean Observing System Executive Committee – September 2007 – August 2008.

Fellow of the Cooperative Institute for Climate and Ocean Research, Woods Hole Oceanographic Institution – December 2006 – October 2008

President-Elect – Early Life History Section of the American Fisheries Society – September 2006-August 2008

Participant Regional Association for Research on the Gulf of Maine Theme Session on the Role of Shipboard Sampling in Observing Systems – May 2008

Chair of Local Organizing Committee – 30th Larval Fish Conference – September 2006.

Participant in Reef Fish Connectivity and Conservation Workshop at Woods Hole Oceanographic Institution – November 2005

Member Scientific Steering Committee of U.S. GLOBEC Program, May 2004 to Oct 2010.

Presenter at North Carolina Coastal Federation 2004 State of the Coast Summit – Global Climate Change: Here and Now – October 2004

Participant in U.S. Climate Change Science Program Ecosystems Interagency Work Group Workshop – February 2004

Participant in National Science Foundation Sponsored Connectivity Workshop – November 2002.

Participant in Atlantic States Fishery Management Council Workshop on Atlantic Menhaden Mortality – October 2002.

NOAA CSCOR/NSF Northwest Atlantic GLOBEC Panel - October 2001.

Member of Local Organizing Committee - 23rd Larval Fish Conference - April 1999.

Co-organizer of American Society of Limnology and Oceanography Symposium – January 1999.

Southern Regional Representative to the Early Life History Section of the American Fisheries Society - 1996 – 1999.

NSF Northeast Pacific GLOBEC Panel - April 1997.

American Fisheries Society J. Francis Allen Scholarship Selection Committee - 1997, 1998.

Sally Richardson Award Committee - Larval Fish Conference - 1995, 1996; 2001.

Manuscript Peer-Reviews for:

Aquatic Biology; Aquatic Invasions; Canadian Journal of Fisheries and Aquatic Sciences; Continental Shelf Research; Copeia; Ecological Research; Ecology; Ecological Indicators; Environmental Development; Estuaries; Estuaries and Coasts; Estuarine, Coastal, Shelf Science; Fisheries Oceanography; Fishery Bulletin; Frontiers in Ecology; Geophysical Research Letters; Global Change Biology; Helgoland Marine Research; Hydrobiologia; ICES Journal of Marine Science; Journal of Experimental Marine Biology and Ecology; Journal of Geophysical Research; Journal of Marine Systems; Journal of North American Fisheries Management; Journal of the Marine Biological Association of the United Kingdom; Journal of the Marine Technology Society; Limnology and Oceanography; Marine Biology; Marine Ecology Progress Series; Marine Environmental Research; North American Journal of Fisheries Management; Oceanography; Population Ecology; Proceedings of the National Academy of Sciences; Proceedings of the Royal Society B: Biological Sciences; Scientia Marina; Transactions of the American Fisheries Society

Proposal Peer-Reviews for:

Israel Science Foundation; Netherland Council for Earth and Life Sciences; NOAA Bluefish/Striped Bass Research Program; NOAA Marine Fisheries Initiative Program (MARFIN) ; NOAA National Cooperative Research Program; NOAA Saltonstall-Kennedy Grant Program; NOAA Sea Grant - Oregon; NOAA Sea Grant - Texas; NOAA Sea Grant - University of Delaware; NOAA Sea Grant - University of Maryland; NOAA Sea Grant - Woods Hole Oceanographic Institution; NOAA SEFSC Atlantic Billfish Research Program; NOAA/NMFS Cooperative Marine Education and Research Program; NSF Biological Oceanography; NSF Northeast Pacific GLOBEC; NSF Ocean Acidification Program; NSF Polar Programs; Schmidt Ocean Institute; United Kingdom Natural Environment Research Council Quantifying and Understanding the Earth System (QUEST)

Professional Affiliations

Early Life History Section of the American Fisheries Society, 1989 to present.

Outreach

Voices from the Fisheries Interview – July 2016

[Saving New England Fisheries](http://www.nhptv.org/pressroom/release_detail.asp?hp_id=2022) New Hampshire Public Television Interview – May 2016
(http://www.nhptv.org/pressroom/release_detail.asp?hp_id=2022)

Host, Senator Whitehouse Visit to Narragansett Laboratory – April 2016

Panel Member, Congressman Keating & Representative Madden’s Ocean Acidification Roundtable – March 2016

(http://keating.house.gov/index.php?option=com_content&view=article&id=355:keating-madden-host-ocean-acidification-roundtable&catid=14&Itemid=13)

Presenter, American Geosciences Institute Ocean Acidification Impacts on Fisheries Webinar – March 2016 (<http://www.americangeosciences.org/critical-issues/webinars/ocean-acidification-impacts-fisheries>)

Presenter, NOAA Climate Stewards Webinar – January 2016
(<https://www.youtube.com/watch?v=PaQbP0T63Ls>)

Presenter, 2015 Annual Science Immersion Workshop for Journalists, Metcalfe Institute – June 2015

Presenter, 2015 Southern New England Recreational Fishing Symposium – March 2015

Presenter, AFS Congressional Briefing – Marine Fisheries Issues – Challenges Related to Managing Fish Stocks – March 2015

Presenter, Marine Resource Education Program – Science Module – January 2015 – (<http://www.gmri.org/our-work/fisheries-convening/mrep-northeast>)

Panel Participant, American Catch, Yale University – October 2014

Presenter, NOAA Office of General Counsel, 2014 Training Conference – July 2014

Presenter, 2014 Annual Science Immersion Workshop for Journalists, Metcalfe Institute – June 2014

Presenter, SeaGrant Fisheries Extension Network Webinar – April 2014 – (<http://seagrant.noaa.gov/News/SeaGrantAnnouncements.aspx>)

Presenter, Maritime Gloucester Speaker Series – March 2014 – (<http://maritimegloucester.org/visit/event.php?s=2014-03-13-climate-change-and-fisheries>)

Presenter, Rhode Island Saltwater Anglers Association – February 2014 – (<http://www.risaa.org/seminars/seminar0214.html>)

Presenter, Fox Hill Garden Club Public Meeting – January 2014 - (<http://foxhillgardenclub.org/communityactivities/foxhillpublicmeeting.html>)

Presenter, Marine Resource Education Program – Science Module – January 2014 – (<http://www.gmri.org/our-work/fisheries-convening/mrep-northeast>)

Host, Senator Reed Visit to Narragansett Laboratory – April 2013

Presenter, AFS Briefing on the Hill - Climate Change and Fisheries – May 2013

Presenter, Marine Resource Education Program – Science Module – November 2012 – (<http://www.gmri.org/our-work/fisheries-convening/mrep-northeast>)

2012 Ocean Literacy Summit, University of Rhode Island – November 2012
(<http://www.neosec.org/previous-summits/2012-ocean-literacy-summit>)

Presenter, 2012 Ocean Literacy Summit, University of Rhode Island – November 2012
(<http://www.neosec.org/previous-summits/2012-ocean-literacy-summit>)

Presenter, From Climate to Space: Hot Topics for the Station Scientist – A Short Course at the 40th Conference on Broadcast Meteorology - August 24 2012
(<http://www.ametsoc.org/meet/fainst/201240broadcast.html>)

Guest Lecturer, Woods Hole Partnership Educational Program
(<http://www.woodsholediversity.org/pep/>) – Sea Education Association – Summer 2010, Summer 2012, Summer 2013

Minnewaska Area High School - Go Green Night Teleconference – April 2011

National Science Teachers Association, Web Seminar Series – (http://learningcenter.nsta.org/products/symposia_seminars/Philadelphia10/NOAA/webseminarII.aspx) – May 2010

NOAA North Atlantic Regional Team, Climate Change and Fisheries – November 2010

Instruction

Guest Lecturer, Sustainable Fisheries – Shoals Marine Laboratory – Summer 2017
Guest Lecturer, Sustainable Fisheries – Shoals Marine Laboratory – Summer 2016
Guest Lecturer, Sustainable Fisheries – Shoals Marine Laboratory – Summer 2015
Co-instructor – Fisheries Oceanography (OCG673) – University of Rhode Island – Fall 2013
Guest Lecturer, Applied Coastal Ecology – University of Rhode Island – Fall 2011
Guest Lecturer, Biological Oceanography – University of Rhode Island – Fall 2011
Co-instructor – Fisheries Oceanography (OCG673) – University of Rhode Island – Fall 2011
Internship Advisor – Five Colleges Marine Sciences Internship Program - Summer 2011.
Internship Advisor - Smith College Summer Internship Program - Summer 2011.
Co-instructor – Fisheries Oceanography (OCG673) – University of Rhode Island – Fall 2009
Guest Lecturer, Professional Development – University of North Carolina Chapel Hill – Fall 2005
Guest Lecturer, Fisheries Oceanography – University of Rhode Island – Fall 2005
Guest Lecturer, Integrated Scientific Assessments – University of Michigan – Fall 2004.
Instructor - Fisheries Oceanography Seminar – NCSU MEAS/Zoology Department Course 624 – Spring 2003.
Internship Advisor - Smith College Summer Internship Program - Summer 2002 (co-advisor).
Department of Defense Executive Leadership Program Advisor - Summer 2001.
Internship Advisor - Smith College Summer Internship Program - Summer 2001.
Internship Advisor - Marine Advanced Technology Education Center - RV CAPE HATTERAS cruise February 2001.
Internship Advisor - Marine Advanced Technology Education Center - RV CAPE HATTERAS cruise November 2000.
Guest Lecturer, Coastal Ecological Processes - East Carolina University, Fall 1999.
Guest Lecturer, Environmental Science - East Carolina University, Spring 1996 & 1997.
Guest Lecturer, Marine Community Ecology - East Carolina University, Fall 1995 & Spring 1997.
Teaching Assistant, Tropical Marine Ecology - SUNY Stony Brook, Winter 1991.
Practicum in Teaching, Ichthyology - SUNY Stony Brook, Fall 1990.
Teaching Assistant, Environmental Problems - SUNY Stony Brook, Fall 1988.

Post-Doctoral Advisees

Nathan Rebeck – National Research Council – 2011 – 2013, Integrated Statistics -2013-present
Sara Turner – Integrated Statistics – 2014 – 2015
Richard Bell – National Research Council – 2012 – 2015
Megan O’Connor – National Research Council – 2011 – 2013
David Richardson – National Research Council – 2008-2009.
Mark Wuenschel – Oak Ridge Institute for Science and Education - 2002-2005.
Frank Hernandez – Oak Ridge Institute for Science and Education - 2002-2004.
Dariusz Fey – National Research Council – 2002-2003.
Cecily Natunewicz – National Research Council – 2001-2002.

Student Committees

- Conor McManus – University of Rhode Island, Graduate School of Oceanography, Fall 2017, Ph.D. Committee Member
- Ana Malek – University of Rhode Island, Graduate School of Oceanography, Spring 2015, Ph.D. Committee Member
- Lis Henderson – University of Rhode Island, Graduate School of Oceanography, Spring 2014, M.Sc. Committee Member
- Adam Greer – Rosenstiel School of Marine and Atmospheric Sciences, University of Miami, Summer 2013, Ph.D Committee Member
- Jason Boucher – University of Massachusetts, Dartmouth, Summer 2013, Ph.D. Committee Member
- Lanora Lang – Dauphin Island Sea Lab, Spring 2012, M.Sc. Committee Member
- Anna Pfeiffer-Herbert – University of Rhode Island, Graduate School of Oceanography, Doctor of Philosophy Degree, Spring 2012 - Committee Member
- Kiersten Curti – University of Rhode Island, Graduate School of Oceanography, Doctor of Philosophy Degree, Spring 2012 - Committee Member
- Alison Cleary - University of Rhode Island, Graduate School of Oceanography, Masters of Science Degree, Spring 2010 - Committee Member
- Ivan Mateo – University of Rhode Island, Department of Fisheries, Animal & Veterinary Science, Doctor of Philosophy Degree, Spring 2009 – Committee Member
- Klaus Huebert – Rosenstiel School for Marine and Atmospheric Science, University of Miami, Fall 2008, Doctor of Philosophy Degree, Committee Member
- Harvey Walsh – North Carolina State University, Department of Zoology, Masters of Science Degree, Summer 2007. Co-advisor.
- Karen Pherson Edwards – University of North Carolina Chapel Hill, Department of Marine Sciences, Doctor of Philosophy Degree, Summer 2006 – Committee member.
- Sarah Carr – University of North Carolina Chapel Hill, Department of Marine Sciences, Doctor of Philosophy Degree, Spring 2006 – Committee Member.
- Abby McClean – Department of Fisheries, Animal & Veterinary Science, University of Rhode Island, Masters Degree, Spring 2006 - Committee Member
- Jacqueline Jenkins - East Carolina University, Master Degree, Spring 2005 - Co-advisor.
- Steven Searcy - North Carolina State University, Marine, Earth and Atmospheric Sciences, Doctor of Philosophy Degree, Fall 2005 – Committee member.
- Gretchen Bath Martin - Old Dominion University, Department of Biology, Doctor of Philosophy Degree, Fall 2003 – Committee member.
- Matt Kimball - North Carolina State University, Department of Zoology, Masters Degree, Summer 2003 – Co-advisor.
- Katrin Marancik – East Carolina University, Master Degree, Spring 2003 – Co-advisor.
- Katrin Marancik - University of North Carolina Wilmington, Undergraduate Honors Thesis, Spring 2001 – Committee Member.
- Mimi Tzeng - University of North Carolina Wilmington, Masters Degree, Spring 2001 – Co-advisor.
- Jason Rogers - University of North Carolina Wilmington, Masters Degree, Spring 2000 – Co-advisor.

Current Academic Appointments

None

10. AGENCY SERVICE

Committees and Workshops

Panel Member – Thorny Skate Extinction Risk Panel – May 2016

Chair, NEFSC Climate, Ecosystems, Habitat, and Assessment Steering Group – 2014 - present

Invited Panel, Southeast Fisheries Science Center Ecosystem Science Program Review, March 2016 (http://www.sefsc.noaa.gov/program_reviews/2016/default.htm)

Member Co-Chair – Ecosystem Integration Committee, Technical Expert Working Group for River Herring – Oct 2013 - 2015

Co-lead Northeast Fisheries Climate Vulnerability Assessment – 2013 – 2015

Contributor, NOAA NMFS Climate Science Strategy - 2014

Chair, NEFSC Climate, Ecosystems, and Stock Assessment Working Group – 2013 - 2014

Fisheries and the Environment Scientific Steering Committee Member, September 2007 – present, Chair 2010 -2012

Participant in the Oceans and Coastal Indicator Team, National Climate Assessment - 2013

Participant at Ocean Acidification Data Management Workshop – March 2012

Participant at Workshop on Proactive Conservation Planning for Northwest Atlantic Cusk – December 2012

Participant at Stock Assessment Review Committee 52 - Southern Demersal Working Group - Winter Flounder Assessments – May 2011

Organizer – Fisheries and the Environment Annual Science Meeting – June 2010

Presenter – Atlantic States Marine Fisheries Commission, Atlantic Croaker Assessment Workshop – November 2009

Participant - Applying IPCC-class Models of Global Warming to Fisheries Prediction, 15-17 June 2009

Participant – Transboundary Resource Assessment Committee, Gulf of Maine/Georges Bank Atlantic Herring Stock Assessment Update – June 2009

NEFSC Representative – NOAA Fisheries Science and Technical Support for Large Marine Ecosystems – 2-3 June 2009

Participant - NOAA Fisheries/National Marine Sanctuaries Summit, 27-29 May 2009.

Panel Member – Write Better Session – 9th Northeast Fisheries Science Center Fisheries Science Symposium – January 2008

NEFSC Committee on Scientific Standing and Promotion – October 2005-January 2009

NOAA Leadership Seminar Participant – 28-31 August 2006

Northeast Fisheries Science Center Resource Survey/Ecosystem Monitoring Task Force Chair – June 2005 to 2008

NOAA Aquatic Invasive Species Strategic Planning Workshop Participant – September 2004

Southeast Fisheries Science Center Coral Reef Program Review Participant - March 2004.

NOAA National Marine Fisheries Service (NMFS) Sponsored Workshop Participant – Building Environmental Explicit Stock Assessments – Discussion moderator for ‘Problems of Scale’ theme group - November 2003.

Gray’s Reef National Marine Sanctuary Sponsored Workshop on Reef Fish Monitoring Participant – May 2003.

Pacific Fisheries Environmental Laboratory Review Panel Member, August 2000.

South Atlantic Fishery Council Habitat Advisory Panel Meeting Participant, August 2001.

South Atlantic Fishery Council Habitat Advisory Panel Meeting Participant, August 2000.

NCCOS Coral Reef Workshop Participant - April 1999, December 1999.

1999 Annual CoastWatch Meeting Organizer - November 1999.

Special Assignments

Northeast Regional Climate Science Action Plan Lead – Lead a group of Northeast Fisheries Science Center staff and Greater Atlantic Fishery Regional Office staff to develop a Regional Action Plan for climate change science in the Northeast U.S. Plan develops a 3-5 year strategy for incorporating climate change into NOAA Fisheries products and management.

Climate, Ecosystem, Habitat and Assessment Steering Group Chair – Serve as chair for a leadership group to provide structure and direction to NEFSC efforts pertaining to climate, ecosystem, and habitat research, and the integration and inclusion of this research into the assessments of living marine resources. More broadly, the group will provide guidance on the development and application of Ecosystem-Based Fishery Management (EBFM) in the Northeast Region. Remit extends from physical aspects of climate change to studies of community resilience and the socio-economic dimensions of marine resource management.

Chief Scientist on a NOAA Natural Resource Damage Assessment sponsored cruise on board the NOAA Ship HENRY H. BIGELOW in response to the Deepwater Horizon MC252 incident. Organized, planned and lead 12 scientists conducting acoustic, hydrography, and water chemistry operations in the vicinity of the wellhead.

Acting Oceanography Branch Chief, 2007-2008 – Manage and supervise group of 10-15 federal employees and 2-5 contract employees, students and post-docs. Prepare branch budgets and allocate funds. Responsible for operational hydrographic and plankton programs.

National Research Council Post-Doctoral Advisor, 2001 to present – Selected by National Research Council to be able to serve as advisor for post-docs under research associateship program.

Fisheries Oceanography and Ecology Team Leader, 1999 to 2005 - Manage and supervise group of 6 to 9 federal employees and 5 to 10 contract employees, students, and post-docs. Prepare team budgets and allocate funds. Lead research team in conducting sea-going research, laboratory studies, and modeling studies.

Acting Fisheries Oceanography and Ecology Team Leader, 1998 to 1999 – Temporarily managed and supervised a group of 6 to 9 federal employees and 5 to 10 contract employees, students, and post-docs. Prepare team budgets and allocate funds. Lead research team in conducting sea-going research.

Southeast Region CoastWatch Node Manager – NOAA Beaufort Laboratory, 1998 to 2002 - Managed NOAA National Environmental Satellite, Data, and Information Service (NESDIS) Program at NOAA Beaufort Laboratory that made remotely-sensed data available for researchers, coastal managers, educators and the public.

11. OTHER RELEVANT INFORMATION

Field Activities

Chief Scientist on 32 oceanographic cruises in the western Atlantic Ocean and Gulf of Mexico.

Vessels include RV ONRUST, RV CAPE HATTERAS, RV PELICAN, NOAA Ship DELAWARE II, NOAA Ship FERREL, NOAA Ship OREGON II, NOAA Ship CHAPMAN, NOAA Ship GORDON GUNTER, and NOAA Ship HENRY H. BIGELOW.

Cruise participant on 36 additional oceanographic and resource survey cruises in the western Atlantic Ocean, Gulf of Mexico, and Caribbean Sea. Additional vessels include RV ENDEAVOR, RV ISELIN, NOAA Ship ALBATROSS IV and NOAA Ship PISCES.

Extensive field experience with various biological and physical oceanographic sampling equipment including bongo nets, Tucker trawl, MOCNESS, channel nets, Video Plankton Recorder, moored current meters, Conductivity-Temperature-Depth instruments, Expendable-Bathythermographs, thermosalinographs, water samples for ocean chemistry, and satellite-tracked drifters

Active in the implementation of new technologies for ecosystem monitoring. Work has included use of the Video Plankton Recorder for quantifying zooplankton and the In situ Ichthyoplankton Imaging System for quantifying ichthyoplankton.

Participant in NEFSC Ship of Opportunity Program meeting merchant vessels to equip for sampling and to download data after sampling. Ship rider on 1 SOOP cruise aboard the MV Oleander

Lead larval ingress monitoring program from 1998 to 2005 and participated in program from 1994 to 1998.

Research diver for projects studying recruitment and post-settlement mortality of coral reef fishes in Barbados and Bermuda.