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Publications, Reports, and Abstracts
for Calendar Year 2014**

Compiled by Laura Garner

August 2015

Northeast Fisheries Science Center Publications, Reports, and Abstracts for Calendar Year 2014

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NOAA Fisheries Northeast Fisheries Science Center,
166 Water Street, Woods Hole MA 02543

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EDITORIAL NOTES

The following bibliography consists of three sections: (1) anonymously peer-reviewed publications ("publications"), (2) transparently peer-reviewed and nonpeer-reviewed publications ("reports"), and (3) abstracts for oral presentations and poster displays. The bibliography covers works with a 2014 publication or presentation date, prepared by Northeast Fisheries Science Center (NEFSC) employees. (Publications appearing "online first" in 2014 but with a 2015 print publication date are not included in this list.) Bibliographies of publications, reports, and abstracts for earlier years are available online at: <http://nefsc.noaa.gov/publications/lists/>.

Availability varies for each work. Web links to online publications and Digital Object Identifiers (DOI) are provided when possible.

Editorial treatment of bibliographic entries is based on the Council of Science Editors style manual, seventh edition.¹

¹ Council of Science Editors, Style Manual Committee. 2006. Scientific style and format: the CSE manual for authors, editors, and publishers. 7th ed. Reston, VA: The Council; 658 p.

PUBLICATIONS

- Adams AJ, Horodysky AZ, McBride RS, Guindon K, Shenker J, MacDonald TC, Harwell HD, Ward R, Carpenter K. 2014. Global conservation status and research needs for tarpons (Megalopidae), ladyfishes (Elopidae), and bonefishes (Albulidae). *Fish Fish.* 15(2):280-311. DOI: [10.1111/faf.12017](https://doi.org/10.1111/faf.12017)
- Ainsley SM, Ebert DA, Natanson LJ, Cailliet GM. 2014. A comparison of age, growth and age at maturity of the Bering skate, *Bathyraja interrupta* (Gill & Townsend, 1897), from two Alaskan large marine ecosystems. *Fish Res.* 154:17-25. DOI: [10.1016/j.fishres.2014.02.002](https://doi.org/10.1016/j.fishres.2014.02.002)
- Ardren WR, Busack C, Kocik JF. 2014. Collaboration between Atlantic and Pacific salmon biologists to enhance recovery of endangered salmon in North America. *Rev Fish Biol Fish.* 24:685-688. DOI: [10.1007/s11160-014-9365-7](https://doi.org/10.1007/s11160-014-9365-7)
- Bell RJ, Fogarty MJ, Collie JS. 2014. Stability in marine fish communities. *Mar Ecol Prog Ser.* 504:221-239. DOI: [10.3354/meps10730](https://doi.org/10.3354/meps10730)
- Bell RJ, Hare JA, Manderson JP, Richardson DE. 2014. Externally driven changes in the abundance of summer and winter flounder. *ICES J Mar Sci.* 71:2416-2428. DOI: [10.1093/icesjms/fsu069](https://doi.org/10.1093/icesjms/fsu069)
- Bell RJ, Richardson D, Hare J, Lynch P, Fratantoni P. 2014. Disentangling the effects of climate, abundance and size on the distribution of marine fish: an example based on four stocks from the Northeast US shelf. *ICES J Mar Sci.* (2014) DOI: [10.1093/icesjms/fsu217](https://doi.org/10.1093/icesjms/fsu217)
- Bi H, Ji R, Liu H, Jo Y-H, Hare JA. 2014. Decadal changes in zooplankton of the Northeast U.S. continental shelf. *PLoS ONE.* 9(1):e87720. DOI: [10.1371/journal.pone.0087720](https://doi.org/10.1371/journal.pone.0087720)
- Bisack KD, Magnusson G. 2014. Measuring the economic value of increased precision in scientific estimates of marine mammal abundance and bycatch: Harbor porpoise *Phocoena phocoena* in the northeast U.S. gill-net fishery. *N Am J Fish Manage.* 34(2):311-321. DOI: [10.1080/02755947.2013.869281](https://doi.org/10.1080/02755947.2013.869281)
- Blogoslawski WJ, editor. 2014. Abstracts of Technical Papers Presented at the 34th Annual Milford Aquaculture Seminar Shelton, Connecticut February 24–26th, 2014. *J Shellfish Res.* 33:541-565.
- Brousseau D, Goldberg R, Garza C. 2014. Impact of predation by the invasive crab, *Hemigrapsus sanguineus*, on the survival of juvenile blue mussels in Long Island Sound. *Northeast Nat.* 21(1):119-133.
- Brown CL, Urbanati E, Zhang W, Brown SB, McComb-Kobza M. 2014. Maternal thyroid and glucocorticoid hormone interactions in larval fish development, and their applications in aquaculture. *Rev Fish Sci Aqua.* 22(3):207-220. DOI: [10.1080/23308249.2014.918086](https://doi.org/10.1080/23308249.2014.918086)

- Brown CL, Yang T, Fitzsimmons K, Bolivar R. 2014. The value of pig manure as a source of nutrients for mass culture of Nile tilapia in ponds (a review). *Agric Sci.* 5:1182-1193. DOI: [10.4236/as.2014.512128](https://doi.org/10.4236/as.2014.512128)
- Byron CJ, Pershing AJ, Stockwell JD, Xue H, Kocik, JF. 2014. Migration model of post-smolt Atlantic salmon (*Salmo salar*) in the Gulf of Maine. *Fish Oceanogr.* 23:172-189. DOI: [10.1111/fog.12052](https://doi.org/10.1111/fog.12052)
- Chambers RC, Candelmo AC, Habeck EA, Poach ME, Wieczorek D, Cooper KR, Greenfield CE, Phelan BA. 2014. Effects of elevated CO₂ in the early life stages of summer flounder, *Paralichthys dentatus*, and potential consequences of ocean acidification. *Biogeosciences.* 11:1613-1626. DOI: [10.5194/bg-11-1613-2014](https://doi.org/10.5194/bg-11-1613-2014)
- Chase PD. 2014. Meristics. In: Cadrin SX, Kerr LA, Mariani S, editors. *Stock Identification Methods*, 2nd Edition. London (UK): Academic Press; p 171-184.
- Cimino MA, Fraser WR, Patterson-Fraser DL, Saba VS, Oliver MJ. 2014. Large-scale climate and local weather drive interannual variability in Adélie penguin chick fledging mass. *Mar Ecol Prog Ser.* 513:253-268. DOI: [10.3354/meps10928](https://doi.org/10.3354/meps10928)
- Clay PM, Kitts A, Pinto da Silva P. 2014. Measuring the socio-economic performance of catch share programs: Definition of metrics and application to the Northeast U.S. groundfish fishery. *Mar Pol.* 44:27-36. DOI: [10.1016/j.marpol.2013.08.009](https://doi.org/10.1016/j.marpol.2013.08.009)
- Corkeron PJ. 2014. Human attitudes and values: tradition and transformation and zombies. In: Higham JES, Bejder L, Williams R, editors. *Whale-watching, sustainable tourism and ecological management*. New York (NY): Cambridge University Press; p 48-56.
- Croxton AN, Wikfors GH, Schulerbrandt-Gragg RD 3rd. 2014. The use of flow cytometric applications to measure the effects of PAHs on growth, membrane integrity, and relative lipid content of the benthic diatom, *Nitzschia brevistris*. *Mar Pollut Bull.* 91(1):160-165. DOI: [10.1016/j.marpolbul.2014.12.010](https://doi.org/10.1016/j.marpolbul.2014.12.010)
- Curtis TH, McCandless CT, Carlson JK, Skomal GB, Kohler NE, Natanson LJ, Burgess GH, Hoey JJ, Pratt HL Jr. 2014. Seasonal distribution and historic trends in abundance of white sharks, *Carcharodon carcharias*, in the western North Atlantic Ocean. *PLoS ONE.* 9(6):e99240. DOI: [10.1371/journal.pone.0099240](https://doi.org/10.1371/journal.pone.0099240)
- Deroba JJ. 2014. Evaluating the consequences of adjusting fish stock assessment estimates of biomass for retrospective patterns using Mohn's Rho. *N Am J Fish Manage.* 34:380-390. DOI: [10.1080/02755947.2014.882452](https://doi.org/10.1080/02755947.2014.882452)
- Dodge KL, Galuardi B, Miller TJ, Lutcavage ME. 2014. Leatherback turtle movements, dive behavior, and habitat characteristics in ecoregions of the Northwest Atlantic Ocean. *PLoS ONE.* 9(3): e91726. DOI: [10.1371/journal.pone.0091726](https://doi.org/10.1371/journal.pone.0091726)

- Essington T, Gibbs M, Edwards S, Clay P, Pinto da Silva P, Dempsey T, Donoghue M, Csirke J, Arnason R, contributing authors; Carr S, editor. 2014. Are catch shares compatible with ecosystem-based management? Experts respond. *Mar Ecosys Manage.* 7(3):1-4.
- Fogarty MJ, McCarthy JJ. 2014. An overview of marine ecosystem-based management. Chapter 1 in: Fogarty MJ, McCarthy JJ, editors. *The Sea, Volume 16: Marine Ecosystem-Based Management.* Cambridge (MA): Harvard University Press; 568 p.
- Fogarty MJ, McCarthy JJ, editors. *The sea, Volume 16: Marine ecosystem-based management.* Cambridge (MA): Harvard University Press; 568 p.
- Friedland KD, Shank BV, Todd CD, McGinnity P, Nye J. 2014. Differential response of continental stock complexes of Atlantic salmon (*Salmo salar*) to the Atlantic Multidecadal Oscillation. *J Mar Sys.* 133:77-87. DOI: [10.1016/j.jmarsys.2013.03.003](https://doi.org/10.1016/j.jmarsys.2013.03.003)
- Friedland KD, Ward BR, Welch DW, Hayes SA. 2014. Postsmolt growth and thermal regime define the marine survival of steelhead from the Keogh River, British Columbia. *Mar Coast Fish.* 6:1-11. DOI: [10.1080/19425120.2013.860065](https://doi.org/10.1080/19425120.2013.860065)
- Fuentes MS, Meseck SL, Wikfors GH, Khan-Bureau D. 2014. Silicon limitation induces colony formation in the benthic diatom *Nitzschia cf. pusilla* (Bacillariales, Bacillariophyceae). *Diatom Res.* 30(1):87-92. DOI: [10.1080/0269249X.2014.960006](https://doi.org/10.1080/0269249X.2014.960006)
- Fuentes S, Wikfors GH, Meseck SL. 2014. Silicon deficiency induces alkaline phosphatase enzyme activity in cultures of four marine diatoms. *Estuar Coasts.* 37:312-324. DOI [10.1007/s12237-013-9695-z](https://doi.org/10.1007/s12237-013-9695-z)
- Gaichas S, Link J, Hare J. 2014. A risk-based approach to evaluating northeast US fish community vulnerability to climate change. *ICES J Mar Sci.* 71:2323-2342. DOI: [10.1093/icesjms/fsu048](https://doi.org/10.1093/icesjms/fsu048)
- Galimany E, Rose JM, Alix J, Dixon MS, Wikfors GH. 2014. Responses of the ribbed mussel, *Geukensia demissa*, to the harmful algae *Aureococcus anophagefferens* and *Heterosigma akashiwo*. *J Mollusc Stud.* 80(2):123-130. DOI: [10.1093/mollus/eyt055](https://doi.org/10.1093/mollus/eyt055)
- Galimany E, Rose JM, Dixon MS, Wikfors GH. 2014. Transplant experiment to evaluate the feeding behaviour of the Atlantic ribbed mussel, *Geukensia demissa*, moved to a high inorganic seston area. *Mar Freshw Res.* 66:220–225. DOI: [10.1071/MF13335](https://doi.org/10.1071/MF13335)
- Gast RJ, McKie-Krisberg ZM, Fay SA, Rose JM, Sanders RW. 2014. Antarctic mixotrophic protist abundances by microscopy and molecular methods. *FEMS Microbiol Ecol.* 89(2):388-401. DOI: [10.1111/1574-6941.12334](https://doi.org/10.1111/1574-6941.12334)
- Goethel D, Legault C, Cadrin S. 2014. Demonstration of a spatially-explicit, tag-integrated stock assessment model with application to three interconnected stocks of yellowtail flounder off of New England. *ICES J Mar Sci.* 72:164-177. DOI: [10.1093/icesjms/fsu014](https://doi.org/10.1093/icesjms/fsu014)

- Goethel DR, Legault CM, Cadrin SX. 2014. Testing the performance of a spatially explicit tag-integrated stock assessment model of yellowtail flounder (*Limanda ferruginea*) through simulation analysis. *Can J Fish Aquat Sci.* 72:582-601. DOI: [10.1139/cjfas-2014-0244](https://doi.org/10.1139/cjfas-2014-0244)
- Goldberg R, Rose JM, Mercaldo-Allen R, Meseck S, Clark P, Kuropat C, Pereira JJ. 2014. Effects of hydraulic dredging on the benthic ecology and sediment chemistry on a cultivated bed of the Northern quahog, *Mercenaria mercenaria*. *Aquaculture.* 428-429:150-157. DOI: [10.1016/j.aquaculture.2014.03.012](https://doi.org/10.1016/j.aquaculture.2014.03.012)
- Good MJ, Kocik JF. 2014. The intern-mentor experience: a sample of the real world. In: Taylor WW, Lynch AJ, Léonard NJ, editors. *Future of fisheries: Perspectives for emerging professionals.* Bethesda (MD): American Fisheries Society; p 31-38.
- Goulette G, Hawkes J, Kocik J, Manning J, Music P, Wallinga J, Zydlewski G. 2014. Opportunistic acoustic telemetry platforms: Benefits of collaboration in the Gulf of Maine. *Fisheries.* 39(10):441-450. DOI: [10.1080/03632415.2014.943740](https://doi.org/10.1080/03632415.2014.943740)
- Grabowski JH, Bachman M, Demarest C, Eayrs S, Harris BP, Malkoski V, Packer D, Stevenson D. 2014. Assessing the vulnerability of marine benthos to fishing gear impacts. *Rev Fish Sci Aquacult.* 22(2):142-155. DOI: [10.1080/10641262.2013.846292](https://doi.org/10.1080/10641262.2013.846292)
- Greer AT, Cowen RK, Guigand CM, Hare JA. 2014. The role of internal waves in larval fish interactions with potential predators and prey. *Prog Oceanogr.* 127:47-61. DOI: [10.1016/j.pocean.2014.05.010](https://doi.org/10.1016/j.pocean.2014.05.010)
- Hamady LL, Natanson LJ, Skomal GB, Thorrold SR. 2014. Vertebral bomb radiocarbon suggests extreme longevity in white sharks. *PLoS ONE.* 9(1):e84006. DOI: [10.1371/journal.pone.0084006](https://doi.org/10.1371/journal.pone.0084006)
- Hare JA. 2014. The future of fisheries oceanography lies in the pursuit of multiple hypotheses. *ICES J Mar Sci.* 71:2343-2356. DOI: [10.1093/icesjms/fsu018](https://doi.org/10.1093/icesjms/fsu018)
- Hayes S, Kocik J. 2014. Comparative estuarine and marine migration ecology of Atlantic salmon and steelhead: blue highways and open plains. *Rev Fish Biol Fish.* 24:757-780. DOI: [10.1007/s11160-014-9348-8](https://doi.org/10.1007/s11160-014-9348-8)
- Hyle AR, McBride RS, Olney JE. 2014. Determinate versus indeterminate fecundity of American shad, an anadromous clupeid. *Trans Am Fish Soc.* 143(3):618-633. DOI: [10.1080/00028487.2013.862178](https://doi.org/10.1080/00028487.2013.862178)
- Iba W, Rice MA, Wikfors GH. 2014. Microalgae in Eastern Pacific white shrimp hatcheries: A review on roles and culture environments. *Asian Fish Sci.* 27(3):212-233.
- James KC, Ebert DA, Natanson LJ, Cailliet GM. 2014. Age and growth characteristics of the starry skate, *Raja stellulata*, with an investigation into life history trends of the central California skate assemblage. *Environ Biol Fishes.* 97(4):435-448. DOI: [10.1007/s10641-013-0164-0](https://doi.org/10.1007/s10641-013-0164-0)

- Jech JM, Sullivan PJ. 2014. Distribution of Atlantic herring (*Clupea harengus*) in the Gulf of Maine from 1998 to 2012. *Fish Res.* 156:26-33. DOI: [10.1016/j.fishres.2014.04.016](https://doi.org/10.1016/j.fishres.2014.04.016)
- Kilgour MJ, Auster PA, Packer D, Purcell M, Packard G, Dessner M, Sherrell A, Rissolo D. 2014. Use of AUVs to inform management of deep-sea corals. *Mar Technol Soc J.* 48(1):21-27. DOI: [10.4031/MTSJ.48.1.2](https://doi.org/10.4031/MTSJ.48.1.2)
- Leaf RT, Friedland KD. 2014. Fall bloom phenology and magnitude influences haddock recruitment on Georges Bank. *ICES J Mar Sci.* 71:2017-2025. DOI: [10.1093/icesjms/fsu076](https://doi.org/10.1093/icesjms/fsu076)
- Lee MY. 2014. Hedonic pricing of Atlantic cod: Effects of size, gear, and freshness. *Mar Resour Econ.* 29(3):259-277. DOI: [10.1086/677769](https://doi.org/10.1086/677769)
- Legault CM. 2014. The ability of two age composition error distributions to estimate selectivity and spawning stock biomass in simulated stock assessments. *Fish Res.* 158:172-180. DOI: [10.1016/j.fishres.2013.12.007](https://doi.org/10.1016/j.fishres.2013.12.007)
- Li Y, Ji R, Fratantoni PS, Chen C, Hare JA, Davis CS, Beardsley RC. 2014. Wind-induced interannual variability of sea level slope, along-shelf flow and surface salinity on the Northwest Atlantic shelf. *J Geophys Res Oceans.* 119:2462-2479. DOI: [10.1002/2013JC009385](https://doi.org/10.1002/2013JC009385)
- Litvin SY, Weinstein MP, Guida VG. 2014. Habitat utilization patterns determine the physiological condition of *Cynoscion regalis* during estuarine residency. *Mar Ecol Prog Ser.* 510:87-99. DOI: [10.3354/meps10913](https://doi.org/10.3354/meps10913)
- Liu H, Fogarty MJ, Hare JA, Hsieh CH, Glaser SM, Ye H, Deyle E, Sugihara G. 2014. Modeling dynamic interactions and coherence between marine zooplankton and fishes linked to environmental variability. *J Mar Syst.* 131:120-129. DOI: [10.1016/j.jmarsys.2013.12.003](https://doi.org/10.1016/j.jmarsys.2013.12.003)
- Lopez G, Carey D, Carlton JT, Cerrato R, Dam H, DiGiovanni R., et al. (33 authors, including Wikfors GH, Zajac R). 2014. Biology and ecology of Long Island Sound. In: Latimer JS, Tedesco MA, Swanson RL, Yarish C, Stacey PE, Garza C, editors. *Long Island Sound - Prospects for the Urban Sea*. New York (NY): Springer; p 285-479.
- Lough RG, Aretxabaleta A. 2014. Transport and retention of vertically migrating adult mysid and decapod shrimp in the tidal front on Georges Bank. *Mar Ecol Prog Ser.* 514:119-135. DOI: [10.3354/meps10977](https://doi.org/10.3354/meps10977)
- Lynch DR, Mcgillicuddy D, Manning JP, Greenberg D, Bigili A, Aretxabelata A. 2014. *Particles in the coastal ocean: Theory and applications*. New York (NY): Cambridge University Press; 560 p.
- Lynch PD, Nye JA, Hare JA, Stock CA, Alexander MA, Scott JD, Curti KL, Drew K. 2014. Projected ocean warming creates a conservation challenge for river herring populations. *ICES J Mar Sci.* 72:374-387. DOI: [10.1093/icesjms/fsu134](https://doi.org/10.1093/icesjms/fsu134)

- Mannino A, Novak MG, Hooker SB, Hyde KJW, Aurin D. 2014. Algorithm development and validation of CDOM properties for estuarine and continental shelf waters along the northeastern U.S. coast. *Remote Sens Environ.* 152: 576-602. DOI: [10.1016/j.rse.2014.06.027](https://doi.org/10.1016/j.rse.2014.06.027)
- McBride RS. 2014. Managing a marine stock portfolio: stock identification, structure, and management of 25 fishery species along the Atlantic coast of the United States. *N Am J Fish Manage.* 34(4):710-734. DOI: [10.1080/02755947.2014.902408](https://doi.org/10.1080/02755947.2014.902408)
- McBride RS. 2014. The continuing role of life history parameters to identify stock structure. In: Cadrin SW, Kerr LA, Mariani S, editors. *Stock identification methods: Applications in fishery science*, 2nd ed. Waltham (MA): Academic Press; p 77-107.
- Mercaldo-Allen R, Kuropat CA, Perry DM, Redman D. 2014. Relation between nucleic acid indices and growth rate in fed and fasting juvenile scup. *N Am J Aqua.* 76:1-8. DOI: [10.1080/15222055.2013.829145](https://doi.org/10.1080/15222055.2013.829145)
- Meseck SL, Mercaldo-Allen R, Rose JM, Clark P, Kuropat C, Pereira J. 2014. Effects of hydraulic dredging for *Mercenaria mercenaria*, Northern quahog, on sediment biogeochemistry. *J World Aquacult Soc.* 45(3):301-311. DOI: [10.1111/jwas.12114](https://doi.org/10.1111/jwas.12114)
- Miller AS, Miller TJ, Mills KE, Sheehan TF. 2014. Retrospective analysis of Atlantic salmon (*Salmo salar*) marine growth and condition in the northwest Atlantic based on tag-recovery data. *Fish Oceanogr.* 23(2):103-115. DOI: [10.1111/fog.12045](https://doi.org/10.1111/fog.12045)
- Natanson LJ, Adams DH, Winton MV, Maurer JR. 2014. Age and growth of the bull shark in the western North Atlantic Ocean. *Trans Am Fish Soc.* 143(3):732-743. DOI: [10.1080/00028487.2014.8925](https://doi.org/10.1080/00028487.2014.8925)
- Natanson LJ, Gervelis BJ, Winton MV, Hamady LL, Gulak SJB, Carlson JK. 2014. Validated age and growth estimates for *Carcharhinus obscurus* in the northwestern Atlantic Ocean, with pre- and post management growth comparisons. *Environ Biol Fishes.* 97(8):881-896. DOI: [10.1007/s10641-013-0189-4](https://doi.org/10.1007/s10641-013-0189-4)
- Nye JA, Baker MR, Bell R, Kenny A, Kilbourne KH, Friedland KD, Martino E, Stachura MM, Van Houtan KS, Wood R. 2014. Ecosystem effects of the Atlantic Multidecadal Oscillation. *J Mar Sys.* 133:103-116. DOI: [10.1016/j.jmarsys.2013.02.006](https://doi.org/10.1016/j.jmarsys.2013.02.006)
- Olson J, Clay PM, Pinto da Silva P. 2014. Putting the seafood in sustainable food systems. *Mar Pol.* 43:104–111. DOI: [10.1016/j.marpol.2013.05.001](https://doi.org/10.1016/j.marpol.2013.05.001)
- Olson J, Pinto da Silva P. 2014. Changing boundaries and institutions in environmental governance: perspectives on sector management of the Northeast US groundfish fishery. *Maritime Studies.* 13:3.
- Otero J, L'Abée-Lund JH, Castro-Santos T, Leonardsson K, Storvik GO, Jonsson B, Dempson B, Russell IC, Jensen AJ, Baglinière JL, Dionne M, Armstrong JD, Romakkaniemi A, Letcher BH, Kocik JF, Erkinaro J, Poole R, Rogan G, Lundqvist H, MacLean JC, Jokikokko E,

- Arnekleiv JV, Kennedy RJ, Niemelä E, Caballero P, Music PA, Antonsson T, Gudjonsson S, Veselov AE, Lamberg A, Groom S, Taylor BH, Taberner M, Dillane M, Arnason F, Horton G, Hvidsten NA, Jonsson IR, Jonsson N, McKelvey S, Næsje TF, Skaala Ø, Smith GW, Sægrov H, Stenseth NC, Vøllestad LA. 2014. Basin-scale phenology and effects of climate variability on global timing of initial seaward migration of Atlantic salmon (*Salmo salar*). *Global Change Biol.* 20:61-75. DOI: [10.1111/gcb.12363](https://doi.org/10.1111/gcb.12363)
- Ozbay G, Chambliss SS, Wikfors GH, Adolf JE, Place AR, Chintapenta LK. 2014. The growth response of *Prorocentrum minimum* Pavill. (Dinophyta) to karlotoxin exposure. *Int J Algae.* 16(1):95-105. DOI: [10.1615/InterJAlgae.v16.i1.70](https://doi.org/10.1615/InterJAlgae.v16.i1.70)
- Pace RM III, Cole TVN, Henry AG. 2014. Incremental fishing gear modifications fail to significantly reduce large whale serious injury rates. *Endang Species Res.* 26:115-126. DOI: [10.3354/esr00635](https://doi.org/10.3354/esr00635)
- Passerotti MS, Andrews AH, Carlson JK, Wintner SP, Goldman KJ, Natanson LJ. 2014. Maximum age and missing time in the vertebrae of sand tiger shark (*Carcharias taurus*): Validated lifespan from bomb radiocarbon dating in the western North Atlantic and southwestern Indian Oceans. *Mar Freshw Res.* 65(8):674-687. DOI: [10.1071/MF13214](https://doi.org/10.1071/MF13214)
- Pereira JJ, Schultz ET, Auster PJ. 2014. Geospatial analysis of habitat use by silver hake *Merluccius bilinearis* in the Gulf of Maine. *Endang Species Res.* 23:219-227. DOI: [10.3354/esr00576](https://doi.org/10.3354/esr00576)
- Polovina JJ, Hobday AJ, Koslow JA, Saba VS. 2014. Open ocean systems. In: Fogarty MJ, McCarthy JJ, editors. *The sea, Volume 16: Marine ecosystem-based management.* Cambridge (MA): Harvard University Press; p 429-473.
- Press YK, McBride RS, Wuenschel MJ. 2014. Time course of oocyte development in winter flounder (Pleuronectidae: *Pseudopleuronectes americanus*) and spawning seasonality for the Gulf of Maine, Georges Bank, and Southern New England stocks. *J Fish Biol.* 85(2):421-445. DOI: [10.1111/jfb.12431](https://doi.org/10.1111/jfb.12431)
- Richardson DE, Palmer MC, Smith BE. 2014. The influence of forage fish abundance on the aggregation of Gulf of Maine Atlantic cod (*Gadus morhua*) and their catchability in the fishery. *Can J Fish Aquat Sci.* 71:1349-1362. DOI: [10.1139/cjfas-2013-0489](https://doi.org/10.1139/cjfas-2013-0489)
- Risch D, Castellote M, Clark CW, Davis G, Dugan P, Hodge LEW, Kumar A, Lucke K, Mellinger DK, Nieu Kirk S, Popescu M, Ramp C, Read AJ, Rice AN, Silva MA, Siebert U, Stafford, KM, Verdaat H, Van Parijs SM. 2014. Seasonal migrations of North Atlantic minke whales: novel insights from large-scale passive acoustic monitoring networks. *Movement Ecol.* 2:24; 17 p. DOI: [10.1186/s40462-014-0024-3](https://doi.org/10.1186/s40462-014-0024-3)
- Risch D, Corkeron PJ, Ellison WT, Van Parijs SM. 2014. Formal comment to Gong et al.: Ecosystem scale acoustic sensing reveals humpback whale behavior synchronous with herring spawning processes and re-evaluation finds no effect of sonar on humpback song occurrence in the Gulf of Maine in fall 2006. *PLoS One.* 9(10):e109225. DOI: [10.1371/journal.pone.0109225](https://doi.org/10.1371/journal.pone.0109225)

- Risch D, Gales N, Gedamke J, Kindermann L, Nowacek D, Read A, Siebert U, van Opzeeland I, Van Parijs SM, Friedlaender A. 2014. Mysterious bio-duck sound attributed to the Antarctic minke whale (*Balaenoptera bonaerensis*). Biol Lett. 10:20140175. DOI: [10.1098/rsbl.2014.0175](https://doi.org/10.1098/rsbl.2014.0175)
- Risch D, Siebert U, Van Parijs SM. 2014. Individual calling behaviour and movements of North Atlantic minke whales (*Balaenoptera acutorostrata*). Behaviour. 151(9):1335-1360. DOI: [10.1163/1568539X-00003187](https://doi.org/10.1163/1568539X-00003187)
- Robinson NJ, Valentine S, Santidrián Tomillo P, Saba VS, Spotila JR, Paladino FV. 2014. Multidecadal trends in the nesting phenology of Pacific and Atlantic leatherback turtles are associated with population demography. Endang Species Res. 24(3):197-206. DOI: [10.3354/esr00604](https://doi.org/10.3354/esr00604)
- Rocha L, et al (including Collette BB, Collins AG). 2014. Specimen collection: An essential tool (Letter). Science. 344(6186):814-815. DOI: [10.1126/science.344.6186.814](https://doi.org/10.1126/science.344.6186.814)
- Rose JM, Bricker SB, Tedesco MA, Wikfors GH. 2014. A role for shellfish aquaculture in coastal nitrogen management. Environ Sci Technol. 48(5):2519-2525. DOI: [10.1021/es4041336](https://doi.org/10.1021/es4041336)
- Ryan C, Wenzel FW, López Suárez P, Berrow SD. 2014. An abundance estimate for humpback whales, *Megaptera novaeangliae* breeding around Boa Vista, Cape Verde Islands. Zoologia Caboverdiana. 5(1):20-28.
- Saba GK, Fraser WR, Saba VS, Iannuzzi RA, Coleman KE, Doney SC, Ducklow HW, Martinson DG, Miles TN, Patterson-Fraser DL, Stammerjohn SE, Steinberg DK, Schofield OM. 2014. Winter and spring controls on the summer food web of the coastal West Antarctic Peninsula. Nature Commun. 5:4318. DOI: [10.1038/ncomms5318](https://doi.org/10.1038/ncomms5318)
- Shi SF, Li M, Yan S, Wang M, Yang CP, Lun ZR, Brown CL, Yang TB. 2014. Phylogeography and demographic history of *Gotocotyla sawara* (Monogea: Gotocotylidae) on Japanese Spanish mackerel (*Scomberomorus niphonius*) along the coast of China. J Parasitol. 100(1):85-92. DOI: [10.1645/13-235.1](https://doi.org/10.1645/13-235.1)
- Smith BE, Collie JS, Lengyel NL. 2014. Fish trophic engineering: ecological effects of the invasive ascidian *Didemnum vexillum* (Georges Bank, northwestern Atlantic). J Exp Mar Biol Ecol. 461:489-498. DOI: [10.1016/j.jembe.2014.09.009](https://doi.org/10.1016/j.jembe.2014.09.009)
- Suter EA, Lwiza KMM, Rose JM, Gobler C, Taylor GT. 2014. Phytoplankton assemblage changes during decadal decreases in nitrogen loadings to the urbanized Long Island Sound estuary. Mar Ecol Prog Ser. 497:51-67. DOI: [10.3354/meps10602](https://doi.org/10.3354/meps10602)
- van der Hoop JM, Vanderlaan ASM, Cole TV, Henry AG, Hall L, Mase-Guthrie B, Wimmer T, Moore MJ. 2014. Vessel strikes to large whales before and after the 2008 Ship Strike Rule. Conserv Lett. 8(1):24-32. DOI: [10.1111/conl.12105](https://doi.org/10.1111/conl.12105)
- Walden JB, Kitts N. 2014. Measuring fishery profitability: An index number approach. Mar Pol. 43:321-326. DOI: [10.1016/j.marpol.2013.07.002](https://doi.org/10.1016/j.marpol.2013.07.002)

- Wang M, Yan S, Brown CL, Shaharom-Harrison F, Shi S-F, Yang T-B. 2014. Phylogeography of *Tetrancistrum nebulosi* (Monogenea, Dactylogyridae) on the host of mottled spinefoot (*Siganus fuscescens*) in the South China Sea, inferred from mitochondrial COI and ND2 genes. *Mitochondrial DNA*. 16:1-11. DOI: [10.3109/19401736.2014.971240](https://doi.org/10.3109/19401736.2014.971240)
- Weitkamp L, Goulette G, Hawkes J, O'Malley M, Lipsky C. 2014. Juvenile salmon in estuaries: comparisons between Atlantic and Pacific salmon. *Rev Fish Biol Fish*. 24(3):713-736. DOI: [10.1007/s11160-014-9345-y](https://doi.org/10.1007/s11160-014-9345-y)
- Whitfield PE, Muñoz RC, Buckel CA, Degan BP, Freshwater DW, Hare JA. 2014. Native fish community structure and Indo-Pacific lionfish (*Pterois volitans*) densities along a depth-temperature gradient in Onslow Bay, North Carolina, USA. *Mar Ecol Prog Ser*. 509:241-254. DOI: [10.3354/meps10882](https://doi.org/10.3354/meps10882)
- Wikfors GH, Alix JH. 2014. Granular hemocytes are phagocytic, but agranular hemocytes are not, in the eastern oyster *Crassostrea virginica*. *Invert Immun*. 1:15-21. DOI: [10.2478/invim-2014-0001](https://doi.org/10.2478/invim-2014-0001)
- Winton MV, Natanson LJ, Kneebone J, Cailliet GM, Ebert DA. 2014. Life history of *Bathyraja trachura* from the eastern Bering Sea, with evidence of latitudinal variation in a deep-sea skate species. *J Mar Biol Ass UK*. 94(2):411-422. DOI: [10.1017/S0025315413001525](https://doi.org/10.1017/S0025315413001525)
- Winton MV, Wuenschel MJ, McBride R. 2014. Investigating spatial variation and temperature effects on maturity of female winter flounder (*Pseudopleuronectes americanus*) using generalized additive models. *Can J Fish Aquat Sci*. 71:1279-1290. DOI: [10.1139/cjfas-2013-0617](https://doi.org/10.1139/cjfas-2013-0617)

REPORTS

- Brooks EN, Politis PJ. 2014. Evaluating age and length composition data for inference about selectivity shape. TRAC Ref Doc. 2014/17.
- Clay PM, Himes-Cornell A. 2014. Bringing social science into US national climate policy. *Anthropology News*. April 2014.
- Das C. 2014. Northeast trip cost data - Overview, estimation, and predictions. NOAA Tech Memo NMFS NE-227; 20 p. Available at: <http://www.nefsc.noaa.gov/publications/tm/tm227/>
- Das C. 2014. An overview of the annual cost survey protocol and results in the northeastern region (2007-2009). NOAA Tech Memo NMFS NE-226; 34 p. Available at: <http://www.nefsc.noaa.gov/publications/tm/tm226/>
- DePiper G. 2014. Statistically assessing the precision of self-reported VTR fishing locations. NOAA Tech Memo NMFS NE-229; 16 p. Available at: <http://www.nefsc.noaa.gov/publications/tm/tm229/>

- Garner L, O'Brien A. 2014. Northeast Fisheries Science Center publications, reports, and abstracts for calendar year 2013. Northeast Fish Sci Cent Ref Doc. 14-12; 22 p. Available at: <http://www.nefsc.noaa.gov/publications/crd/crd1412/>
- Gross WE, O'Brien L, Stone HH, Van Eeckhaute L. 2014. Update of allocation shares for Canada and the USA of the transboundary resources of Atlantic cod, haddock, and yellowtail flounder on Georges Bank through fishing year 2015. TRAC Ref Doc. 2014/04; 30 p.
- Hatch J, Orphanides C. 2014. Estimates of cetacean and pinniped bycatch in the 2012 New England sink and mid-Atlantic gillnet fisheries. Northeast Fish Sci Cent Ref Doc. 14-02; 20 p. Available at: <http://www.nefsc.noaa.gov/publications/crd/crd1402/>
- Henry AG, Cole TVN, Hall L, Ledwell W, Morin D, Reid A. 2014. Mortality Determinations for baleen whale stocks along the Gulf of Mexico, United States east coast, and Atlantic Canadian provinces, 2008 - 2012. Northeast Fish Sci Cent Ref Doc. 14-10; 17 p. Available at: <http://www.nefsc.noaa.gov/publications/crd/crd1410/>
- Jech M. 2014. Postprocessing of scientific echo-sounder data from the NOAA ships *Albatross IV* and *HB Bigelow*: 1998 - 2012. Northeast Fish Sci Cent Ref Doc. 14-08; 45 p. Available at: <http://www.nefsc.noaa.gov/publications/crd/crd1408/>
- Khan C, Duley P, Henry A, Gatzke J, Cole T. 2014. North Atlantic Right Whale Sighting Survey (NARWSS) and Right Whale Sighting Advisory System (RWSAS) 2013 results summary. Northeast Fish Sci Cent Ref Doc. 14-11; 10 p. Available at: <http://www.nefsc.noaa.gov/publications/crd/crd1411/>
- Kohler NE, Turner PA, Pezzullo M, McCandless CT. 2014. Mark/recapture data for the smooth dogfish, *Mustelus canis*, in the Western North Atlantic from the NMFS Cooperative Shark Tagging Program. Southeast Data Assessment and Review (SEDAR) 39 Data Workshop Document, SEDAR39-DW-20; 24 p.
- Legault CM, Alade L, Gross WE, Stone HH. 2014. Stock assessment of Georges Bank yellowtail flounder for 2014. TRAC Ref Doc. 2014/01; 214 p.
- McCandless CT. 2014. Hierarchical analysis of U.S. Atlantic smooth dogfish and Gulf of Mexico smoothhound species indices of abundance. Southeast Data Assessment and Review (SEDAR) 39 Data Workshop Document, SEDAR39-AW-02; 13 p.
- McCandless CT. 2014. Standardized indices of abundance for smooth dogfish, *Mustelus canis*, from the Cooperative Atlantic States Shark Pupping and Nursery (COASTSPAN) longline survey in Delaware Bay. Southeast Data Assessment and Review (SEDAR) 39 Data Workshop Document, SEDAR39-DW-16; 13 p.
- McCandless CT. 2014. Standardized indices of abundance for smooth dogfish, *Mustelus canis*, from the University of Rhode Island trawl survey conducted by the Graduate School of Oceanography. Southeast Data Assessment and Review (SEDAR) 39 Data Workshop Document, SEDAR39-DW-11; 11 p.

- McCandless CT, Conn P, Cooper P, Cortés E, Laporte SW, Nammack M. 2014. Status review report: northwest Atlantic dusky shark (*Carcharhinus obscurus*). Report to National Marine Fisheries Service, Office of Protected Resources; 72 p.
- McCandless CT, Frazier BS. 2014. Standardized indices of abundance for smooth dogfish, *Mustelus canis*, from the South Carolina Department of Natural Resources red drum longline survey. Southeast Data Assessment and Review (SEDAR) 39 Data Workshop Document, SEDAR 39-DW-19; 12 p.
- McCandless CT, Gottschall K. 2014. Standardized indices of abundance for smooth dogfish, *Mustelus canis*, from the Long Island Sound Trawl Survey conducted by the Connecticut Department of Energy and Environmental Protection. Southeast Data Assessment and Review (SEDAR) 39 Data Workshop Document, SEDAR39-DW-12; 15 p.
- McCandless CT, Grahn C. 2014. Standardized indices of abundance for smooth dogfish, *Mustelus canis*, from the Peconic Bay Small Mesh Trawl Survey conducted by the New York State Department of Environmental Conservation. Southeast Data Assessment and Review (SEDAR) 39 Data Workshop Document, SEDAR39-DW-13; 12 p.
- McCandless CT, Greco M. 2014. Standardized indices of abundance for smooth dogfish, *Mustelus canis*, from the Delaware Division of Fish and Wildlife trawl surveys. Southeast Data Assessment and Review (SEDAR) 39 Data Workshop Document, SEDAR39-DW-15; 17 p.
- McCandless CT, Mello JJ. 2014. Standardized indices of abundance for smooth dogfish, *Mustelus canis*, from the Northeast Fisheries Observer Program. Southeast Data Assessment and Review (SEDAR) 39 Data Workshop Document, SEDAR39-DW-09; 11 p.
- McCandless CT, Olszewski SD. 2014. Standardized indices of abundance for smooth dogfish, *Mustelus canis*, from the Rhode Island Department of Environmental Management trawl surveys. Southeast Data Assessment and Review (SEDAR) 39 Data Workshop Document, SEDAR39-DW-10; 26 p.
- McCandless CT, Pyle J, Hinks G, Barry L. 2014. Standardized indices of abundance for smooth dogfish, *Mustelus canis*, from the New Jersey Division of Fish and Wildlife trawl surveys. Southeast Data Assessment and Review (SEDAR) 39 Data Workshop Document, SEDAR39-DW-14; 13 p.
- McCandless CT, Schwartz FJ, Hoey JJ. 2014. Standardized indices of abundance for smooth dogfish, *Mustelus canis*, from the University of North Carolina shark longline survey south of Shackleford Banks. Southeast Data Assessment and Review (SEDAR) 39 Data Workshop Document, SEDAR39-DW-18; 9 p.
- McCandless CT, Stewart C, White H. 2014. Standardized indices of abundance for smooth dogfish, *Mustelus canis*, from the Ocean Gillnet Program conducted by the North Carolina Division of Marine Fisheries. Southeast Data Assessment and Review (SEDAR) 39 Data Workshop Document, SEDAR39-DW-17; 9 p.

- Mercaldo-Allen R, editor; steering committee. 2014. 14th Flatfish Biology Conference 2014 Program and Abstracts, December 3-4 2014, Water's Edge Resort and Spa, Westbrook, CT. Northeast Fish Sci Cent Ref Doc. 14-15; 48 p. Available at: <http://www.nefsc.noaa.gov/publications/crd/crd1415/>
- Moustahfid H, Weise M, Simmons S, Block B, Holland K, Ault J, Kocik J, Costa D, Lindley ST, Mate B, Hayes S, Holbrook CM, Seitz A, Arendt M, Payne J, Mahmoudi B, Alexander C, Moore P, Price J, Wilson D. 2014. Meeting our nation's needs for biological and environmental monitoring: strategic plan and recommendations for a national telemetry network (ATN) through U.S. IOOS. U.S. Dept Commer, NOAA Technical Memorandum NMFS, NOAA-TM-NMFS-SWFSC-534; 7 p. Available at: http://www.ioos.noaa.gov/observing/animal_telemetry/national_atn_sp_draft_final1.pdf
- Murphy T, Kitts A, Records D, Demarest C, Caless D, Walden J, Benjamin S. 2014. 2012 final report on the performance of the northeast multispecies (groundfish) fishery (May 2012 - April 2013). Northeast Fish Sci Cent Ref Doc. 14-01; 111 p. Available at: <http://www.nefsc.noaa.gov/publications/crd/crd1401/>
- Northeast Fisheries Science Center. 2014. 58th Northeast Regional Stock Assessment Workshop (58th SAW) assessment summary report. Northeast Fish Sci Cent Ref Doc. 14-03; 44 p. Available at: <http://www.nefsc.noaa.gov/publications/crd/crd1403/>
- Northeast Fisheries Science Center. 2014. 58th Northeast Regional Stock Assessment Workshop (58th SAW) assessment report. Northeast Fish Sci Cent Ref Doc. 14-04; 784 p. Available at: <http://www.nefsc.noaa.gov/publications/crd/crd1404/>
- Northeast Fisheries Science Center. 2014. 59th Northeast Regional Stock Assessment Workshop (59th SAW) assessment report. Northeast Fish Sci Cent Ref Doc. 14-09; 782 p. Available at: <http://www.nefsc.noaa.gov/publications/crd/crd1409/>
- Northeast Fisheries Science Center. 2014. 59th Northeast Regional Stock Assessment Workshop (59th SAW) assessment summary report. Northeast Fish Sci Cent Ref Doc. 14-07; 39 p. Available at: <http://www.nefsc.noaa.gov/publications/crd/crd1407/>
- Northern Shrimp Technical Committee (NSTC): Whitmore K, Richards A, Eckert R, Hunter M, Hawk M, Drew K. 2014. Stock status report for Gulf of Maine northern shrimp - 2014. Atl States Mar Fish Comm Spec Rep; 70 p.
- Palmer MC. 2014. 2014 assessment update report of the Gulf of Maine Atlantic cod stock. Northeast Fish Sci Cent Ref Doc. 14-14; 119 p. Available at: <http://www.nefsc.noaa.gov/publications/crd/crd1414/>
- Politis PJ, Galbraith JK, Kostovick P, Brown RW. 2014. Northeast Fisheries Science Center bottom trawl survey protocols for the NOAA ship *Henry B. Bigelow*. Northeast Fish Sci Cent Ref Doc. 14-06; 138 p. Available at: www.nefsc.noaa.gov/publications/crd/crd1406/
- Then AY, Brooks EN. 2014. Estimates of natural mortality for flatfish in the Northwest Atlantic: A comparison of model predicted estimates. TRAC Ref Doc.2014/5.

- Van Eeckhaute L, Brooks EN. 2014. Assessment of Eastern Georges Bank Haddock for 2014. TRAC Ref Doc. 2014/03; 96 p.
- Walden JB, Agar J, Felthoven R, Harley A, Kasperski S, Lee J, Lee T, Mamula A, Stephen J, Strelcheck A, Thunberg E. 2014. Productivity change in U.S. catch share fisheries. NOAA Tech Memo NMFS F/SPO-146; 137 p. Available at: https://www.st.nmfs.noaa.gov/Assets/economics/catch-shares/documents/TM146_Productivity.pdf
- Wang Y, O'Brien L, Stone HH, Gross WE. 2014. Assessment of Eastern Georges Bank Atlantic cod for 2014. TRAC Ref Doc. 2014/03; 102 p.
- Waring GT, Josephson E, Foley K, Rosel P. 2014. U.S. Atlantic and Gulf of Mexico marine mammal stock assessments -- 2013. NOAA Tech Memo NMFS NE-228; 464 p. Available at: <http://www.nefsc.noaa.gov/publications/tm/tm228/>
- Waring GT, Wenzel F, Josephson E, Lyssikatos MC. 2014. Serious injury determinations for small cetaceans and pinnipeds caught in commercial fisheries off the northeast U.S. coast, 2007-2011. Northeast Fish Sci Cent Ref Doc. 14-13; 26 p. Available at: <http://www.nefsc.noaa.gov/publications/crd/crd1413/>
- Wigley SE, Blaylock Rago PJ, Shield G. 2014. 2014 discard estimation, precision, and sample size analyses for 14 federally managed species groups in the waters off the northeastern United States. Northeast Fish Sci Cent Ref Doc. 14-05; 157 p. Available at: <http://www.nefsc.noaa.gov/publications/crd/crd1405/>

ABSTRACTS

- Alade LA, Traver ML, Sosebee KA, Rago PA. 2014. An approach to incorporating measures of scientific uncertainty in an index-based stock assessment for management advice: a case study for two species of hakes in the Northwest Atlantic [abstract]. Presented at: NOAA EPP 7th Biennial Education and Science Program; 26-29 Oct 2014; Salisbury MD.
- Andrews AH, Kerr LA, Passerotti MS, Natanson LJ, Wintner SP. 2014. Maximum age and missing time in shark vertebrae: the limits and validity of age estimates using bomb radiocarbon dating [abstract]. Presented at: Sharks International 2014; 2-6 Jun 2014; Durban, South Africa.
- Bailey J, Pinto da Silva P. 2014. Voices from the Fisheries Oral History Database [abstract]. Presented at: Society for Applied Anthropology 74th Annual Meeting; 18-22 Mar 2014; Albuquerque NM; p 232.
- Bernatchez G, Linn S, Wikfors GH, Rose JM, Meseck S. 2014. Nutritional analysis of store-bought scallops from different countries [abstract]. Presented at: 34th Milford Aquaculture Seminar; 24-26 Feb 2014; Shelton CT; p 29. J Shellfish Res. 33:547.

- Bisack K, Das C. 2014. Understanding noncompliance of protected species regulations in the northeast gillnet fishery: Before and after 'consequence closures' [abstract]. Presented at: International Institute of Fisheries Economics and Trade (IIFET) Conference; 7-11 Jul 2014; Brisbane, Australia.
- Blogoslawski WJ. 2014. Overview of the 34th Milford Aquaculture Seminar [abstract]. Presented at: 34th Milford Aquaculture Seminar; 24-26 Feb 2014; Shelton CT; p 29. *J Shellfish Res.* 33:547.
- Bricker S, Rose JM, Ferreira JG. 2014. A meta-analysis of modeled nitrogen removal from shellfish farms [abstract]. Presented at: Restore America's Estuaries 7th National Summit on Coastal and Estuarine Restoration and 24th Biennial Meeting of The Coastal Society; 1-6 Nov 2014; National Harbor MD.
- Brooks EN, Legault CM. 2014. Evaluating projection methodology for Northwest Atlantic groundfish with consideration of biological assumptions and environmental influence [abstract]. Presented at: ICES Annual Science Conference; 15-19 Sep 2014; A Coruña, Spain. *ICES CM 2014/G:32*; 2 p.
- Byron CJ, Pershing AJ, Stockwell JD, Xue H, Kocik JF. 2014. Migration model of post-smolt Atlantic salmon [abstract]. Presented at: 144th Meeting of the American Fisheries Society; 17-21 Aug 2014; Quebec City QC.
- Candelmo A, Chambers C, Habeck E, Habeck K, Poach M, Wieczorek D, Phelan B. 2014. Early life-history strategy and habitat influence the susceptibility to ocean acidification of two species of flatfish from the northeast USA [abstract]. Presented at: 14th Flatfish Biology Conference; 3-4 Dec. 2014; Westbrook CT; p 35.
- Candelmo AC, Chambers RC, Habeck EA, Poach ME, Wieczorek D, Calderone EM, Cooper K, Greenfield CE, Annunziato K, Phelan BA. 2014. Influence of early life-history strategies on the responses of two western North Atlantic flatfishes to ocean acidification [abstract]. Presented at: 144th Meeting of the American Fisheries Society; 17-21 Aug 2014; Quebec City QC.
- Candelmo AC, Chambers RC, Habeck E, Wieczorek D, Cooper K. 2014. Tolerance and impacts of early-life stages of winter flounder, *Pseudopleuronectes americanus*, to ocean acidification [abstract]. Presented at: 2014 Ocean Sciences Meeting; 23-28 Feb 2014; Honolulu HI.
- Chamberlain G, Weeks S, Shank B, O'Brien L, Jacobson L, Wigley S. 2014. Renewed observer coverage of the lobster pot and trap fishery in the northeastern United States [abstract]. Presented at: 144th Meeting of the American Fisheries Society; 17-21 Aug 2014; Quebec City QC.
- Chambers RC. 2014. Effects of elevated CO² on the early life-stages of marine fishes and potential consequences of ocean acidification [abstract]. Presented at: Northeast Coastal Acidification Network (NECAN) webinar; 18 Feb 2014, and NECAN State of Science Conference; 10-11 Apr 2014, Rye NH.

- Chambers RC, Habeck EA, Candelmo AC, Wirgin I. 2014. Vulnerabilities of early life-stages of Atlantic sturgeon and shortnose sturgeon to contaminant and thermal stressors [abstract]. Presented at: 144th Meeting of the American Fisheries Society; 17-21 Aug 2014; Quebec City QC.
- Chambers RC, Jensen OP. 2014. A comparative analysis of flatfish spawning stock-recruit relationships [abstract]. Presented at: 14th Flatfish Biology Conference; 3-4 Dec. 2014; Westbrook CT; p 36.
- Chambers RC, Jensen A, Alcott DJ. 2014. Meta-analysis of ocean acidification experiments on the early life-stages of marine fishes [abstract]. Presented at: 144th Meeting of the American Fisheries Society; 17-21 Aug 2014; Quebec City QC.
- Chelikowsky DJ, Kaparaikeo D, Jeffress D, Giner J-L, Wikfors GH. 2014. Pavlovols, sterols unique to the genus Pavlova, are the bioactive compounds that induce metamorphosis in bay scallop pediveligers fed cultured Pavlova [abstract]. Presented at: 34th Milford Aquaculture Seminar; 24-26 Feb 2014; Shelton CT; p 29. *J Shellfish Res.* 33:549.
- Choromanski J, Veilleux D, King DJ, Jeffress D, Stiles S. 2014. Growth study of bay scallops in a Floating Upweller System [abstract]. Presented at: 34th Milford Aquaculture Seminar; 24-26 Feb 2014; Shelton CT; p 29. *J Shellfish Res.* 33:549.
- Clay Patricia M. 2014. Managing our nation's fisheries 3: Advancing sustainability [abstract]. Presented at: Conference on Fisheries Management in the United States; 6-9 May 2013; Washington DC.
- Colburn LL, Jepson M, Clay PM. 2014. Social indicators of fishing community vulnerability and resilience: An emergent method for fisheries social impact assessment in the United States [abstract]. Presented at: ICES Annual Science Conference; 15-19 Sep 2014; A Coruña, Spain. *ICES CM 2014/3064 G:02*; 2 p.
- Cortes E, Brooks EN. 2014. Application of data-poor stock assessment methods to Atlantic sharks [abstract]. Presented at: 144th Meeting of the American Fisheries Society; 17-21 Aug 2014; Quebec City QC.
- Croxton A, Wikfors G. 2014. Intracellular pH recovery rates of hemocytes from estuarine and open ocean bivalve species following in vitro acid challenge [abstract]. Presented at: AGU Fall Meeting; 15-19 Dec 2014; San Francisco CA; Vol 1, p 1716.
- Croxton AN, Sunila I, Wikfors GH. 2014. Seasonal variation in immunology of Long Island Sound bivalve species [abstract]. Presented at: 34th Milford Aquaculture Seminar; 24-26 Feb 2014; Shelton CT; p 29. *J Shellfish Res.* 33:549.
- Curti KL, Collie JS, Legault CM, Link JS. 2014. Incorporating species interactions in a statistical catch-at-age model of the Georges Bank fish community [abstract]. Presented at: ICES Annual Science Conference; 15-19 Sep 2014; A Coruña, Spain. *ICES CM 2014/G:36*; 2 p.

- Dever M, Kocik J, Zydlewski J, Hebert D, Greenan B. 2014. Linkage between coastal conditions and migration of Atlantic salmon smolts along the Halifax line [abstract]. Presented at: 144th Meeting of the American Fisheries Society; 17-21 Aug 2014; Quebec City QC.
- DiCostanzo M, Turner-Moore H, Goldberg R, Roy J, Shadle K. 2014. Development of a restocking system for stage IV *Homerus americanus* [abstract]. Presented at: 34th Milford Aquaculture Seminar; 24-26 Feb 2014; Shelton CT; p 29. J Shellfish Res. 33:551.
- Dixon MS, Alix RJ, Schreiner WC, Galimany E, Rose JM, Li Y, Refalo HD, Wikfors GH. 2014. Moving biodeposition measurements of shellfish feeding from a shore-based to a shipboard technology [abstract]. Presented at: 34th Milford Aquaculture Seminar; 24-26 Feb 2014; Shelton CT; p 29. J Shellfish Res. 33:551.
- Fratantoni PS, Li Y, Ji R, Chen C, Hare J, Sun Y, Hyde K, Davis C. 2014. Variability of stratification on the Northwest Atlantic Shelf and its implications for plankton production [abstract]. Presented at: Ocean Sciences Meeting; 23-28 Feb 2014; Honolulu HI.
- Gahm M, DeAlteris J, Parkins C, Milliken HO, Ruhle J, Roebuck C, O'Rourke M, Knight J. 2014. Going topless for sea turtles: Bottom trawl modifications to maintain catch efficiency of summer flounder while reducing sea turtle interactions [abstract]. Presented at: 144th Meeting of the American Fisheries Society; 17-21 Aug 2014; Quebec City QC.
- Gaichas S, Link J, Hare J, Fogarty M, Large, Pinto da Silva P, DePiper G, Cournane J, Manderson J, Lucey S, Lowe M, Large S, Fay G. 2014. Towards operational assessments: selection, vetting, and standardized analysis of ecosystem indicators for the Northeast US Large Marine Ecosystem [abstract]. Presented at: ICES Annual Science Conference; 15-19 Sep 2014; A Coruña, Spain. ICES CM 2014/G:28; 2 p.
- Galimany E, Newell CR, Rose JM, Dixon MS, Wikfors GH. 2014. Evaluating ribbed mussels for nutrient bioextraction purposes: the Bronx (NY, USA) experience [abstract]. Presented at: 2nd International Ocean Research Conference; 16-21 Nov 2014; Barcelona, Spain.
- Galuardi B, Cadrin SX, Miller TJ, Kerr L, Lutcavage M. 2014. Informing spatially explicit stock assessment models with fisheries-independent movement probabilities [abstract]. Presented at: 144th Meeting of the American Fisheries Society; 17-21 Aug 2014; Quebec City QC.
- Getchis T, Rose J, Balcom N, Concepcion A, De Guise S. 2014. The Connecticut shellfish initiative [abstract]. Presented at: 34th Milford Aquaculture Seminar; 24-26 Feb 2014; Shelton CT; p 29. J Shellfish Res. 33:552.
- Giresi M, Portnoy D, Grubbs D, Skomal G, McCandless C, Frazier B, Driggers W, Renshaw M, Gold J. 2014. Genetic population structure of the dusky smoothhound shark, *Mustelus canis*, in US waters [abstract]. Presented at: 2014 American Elasmobranch Society Gruber Award Symposium; 1 Aug 2014; Chattanooga TN.
- Godø OR, Macaulay G, Jech M. 2014. Bubble release in pelagic fish species -- what are the causes and implications? [abstract]. Presented at: ICES Working Group on Fisheries Acoustics,

Science and Technology (WGFAST) Meeting; 6-9 May 2014; New Bedford MA. ICES CM 2014/SSGESST:07; p 9.

- Goethel DR, Legault CM, Cadrin SX. 2014. Testing the performance of a spatially explicit tag-integrated model of yellowtail flounder through simulation analysis [abstract]. Presented at: 144th Meeting of the American Fisheries Society; 17-21 Aug 2014; Quebec City QC.
- Good M, Kocik J. 2014. The intern-mentor experience: A sample of the real world [abstract]. Presented at: 144th Meeting of the American Fisheries Society; 17-21 Aug 2014; Quebec City QC.
- Goulette GS, Hawkes JP, Zydlewski J. 2014. A deeper look into Atlantic salmon smolt predation using acoustic telemetry [abstract]. Presented at: 144th Meeting of the American Fisheries Society; 17-21 Aug 2014; Quebec City QC.
- Goulette GS, Hawkes JP, Zydlewski J. 2014. When is a smolt not a smolt? Identifying predation in the Penobscot River estuary using acoustic telemetry [poster]. Presented at: Atlantic Salmon and Their Ecosystem Forum; 8-9 Jan 2014; Orono ME.
- Goulette GS, Hawkes JP, Zydlewski J. 2014. When is a smolt not a smolt? Identifying predation in the Penobscot River using acoustic telemetry [abstract]. Presented at: 70th Annual Northeast Fish and Wildlife Conference; 13-15 Apr 2014; Portland ME.
- Goulette GS, Hawkes JP, Zydlewski J. 2014. When is a smolt not a smolt? Identifying predation in the Penobscot River using acoustic telemetry [abstract]. Presented at: 144th Meeting of the American Fisheries Society; 17-21 Aug 2014; Quebec City QC.
- Goulette GS, Kocik JF, Hawkes JP, Zydlewski J. 2014. Northeast Fisheries Science Center telemetry networks in the Gulf of Maine and connections with the Bay of Fundy [abstract]. Presented at: Atlantic Salmon Federation Telemetry Workshop; 31 Mar 2014; St. Andrews NB.
- Haas-Castro R, Sheehan T, Means Z. 2014. Methods comparison for back-calculating length-at-age of net-pen raised Atlantic salmon in the Gulf of Maine [abstract]. Presented at: American Fisheries Society Southern New England Chapter 2014 Summer Science Meeting; 18 Jun 2014; Storrs CT.
- Hare JA, Brooks EN, Palmer MC, Churchill JH. 2014. A cautionary tale: Evaluating an environmentally-explicit stock recruit model for Gulf of Maine Atlantic Cod (*Gadus morhua*) [abstract]. Presented at: American Fisheries Society Southern New England Chapter 2014 Summer Science Meeting; 18 Jun 2014; Storrs CT.
- Hart D, Chute A. 2014. Interactions between spatial heterogeneity in growth and fishing mortality [abstract]. Presented at: Center for the Advancement of Population Assessment Methodology (CAPAM) Growth Workshop; 3-7 Nov 2014; La Jolla CA.
- Hart DR. 2014. Embracing uncertainty in fisheries reference points [abstract]. Presented at: 144th Meeting of the American Fisheries Society; 17-21 Aug 2014; Quebec City QC.

- Hawkes J, O'Malley M, Goulette G, Saunders R. 2014. A novel investigation of Atlantic salmon post-smolt ecology during estuary transition [abstract]. Presented at: Atlantic Salmon Ecosystems Forum; 8-9 Jan 2014; Orono ME.
- Hawkes JP, O'Malley M, Goulette GS, Saunders R. 2014. You can't answer it alone: Merging survey and telemetry data obtained from a Maine coastal estuary [abstract]. Presented at: 144th Meeting of the American Fisheries Society; 17-21 Aug 2014; Quebec City QC.
- Hennen D. 2014. How should we harvest an animal that can live for centuries? [abstract]. Presented at: 144th Meeting of the American Fisheries Society; 17-21 Aug 2014; Quebec City QC.
- Henry A, Murphy T. 2014. Understanding socio-economic aspects of commercial fishing crew in New England and the Mid-Atlantic [abstract]. Presented at: Social Coast Forum 2014: Exploring the Values of the Coast; 18-20 Feb 2014; Charleston SC.
- Howell P, Pereira J, Gottschall K, Pacileo D. 2014. Trends in winter flounder condition factor and demographics in Long Island Sound [abstract]. Presented at: 14th Flatfish Biology Conference; 3-4 Dec. 2014; Westbrook CT; p 17-18.
- Hyde K, Fogarty M, Fulton E, Kleisner K, Kristiansen T. 2014. Using size-fractionated primary production to improve estimates of fisheries production potential in the Northeast US Continental Shelf Large Marine Ecosystem [poster]. Presented at: Ocean Sciences Meeting; 23-28 Feb 2014; Honolulu HI.
- Hyde K, Fogarty M, Fulton E, Kleisner K, Kristiansen T. 2014. Using size-fractionated primary production to improve estimates of fisheries production potential in the Northeast US Continental Shelf Large Marine Ecosystem [poster]. Presented at: 2014 Ocean Color Research Team, MD 5-7 May 2014; Silver Spring, MD.
- Jech M. 2014. Acoustic and trawl-based Atlantic herring population estimates in the Gulf of Maine [abstract]. Presented at: ICES Working Group on Fisheries Acoustics, Science and Technology (WGFAST) Meeting; 6-9 May 2014; New Bedford MA. ICES CM 2014/SSGESST:07; p 28.
- Khan C, Cole T, Duley P, Henry A, Gatzke J, Corkeron P. 2014. Northeast Fisheries Science Center north Atlantic right whale aerial surveys November 2013 - July 2014 [abstract]. Presented at: North Atlantic Right Whale Consortium; 5-6 Nov 2014; New Bedford MA.
- Khan CB, Rosner A, Landry S, Accardo C, Pitchford T, Knowlton A, Asmutis-Silva, R, Pepe M, Wiley D, Moore KS Buendia E, LCDR, Wobst A, Ernst S, Cole T, Power G. 2014. Right whale sign campaign [abstract]. Presented at: North Atlantic Right Whale Consortium; 5-6 Nov 2014; New Bedford MA.
- Kapareiko D, Rose JM, Alix JH, Jeffress D, Wikfors GH. 2014. Discriminant analysis of oyster hemocyte immune functions as a predictor of potential probiotic candidates [abstract]. Presented at: 34th Milford Aquaculture Seminar; 24-26 Feb 2014; Shelton CT; p 29. J Shellfish Res. 33:555.

- Kirkpatrick AJ. 2014. The economic impact of offshore wind development on northwest Atlantic (US) fisheries [abstract]. Presented at: International Institute of Fisheries Economics and Trade (IIFET) Conference 2014; 7-11 Jul 2014; Brisbane, Australia.
- Kocik JF, Hawkes JP, Stich D, Zydlewski J, Byron C, Dever M. 2014. Migration timing of Atlantic salmon smolts from Penobscot Bay to the Scotian Shelf [abstract]. Presented at: Atlantic Salmon Ecosystems Forum; 8-9 Jan 2014; Orono ME.
- Kocik JF, Hawkes JP, Stich D, Zydlewski J, Dever M, Byron C. 2014. Local and long distance migrations of Maine Atlantic salmon smolts: Penobscot Bay to the Scotian Shelf and beyond [abstract]. Presented at: 144th Meeting of the American Fisheries Society; 17-21 Aug 2014; Quebec City QC.
- Kong XY, Munroe TA. 2014. An overview of the biodiversity and biogeography of flatfishes (Pleuronectiformes) in Chinese waters [abstract]. Presented at: 14th Flatfish Biology Conference; 3-4 Dec. 2014; Westbrook CT; p 32.
- Kupcha EE. 2014. SectorASM data entry Android application for fisheries observer data [abstract]. Presented at: 144th Meeting of the American Fisheries Society; 17-21 Aug 2014; Quebec City QC.
- Langton R, Lipsky C, Stevens J, McCleave J, Sherman S, Lazzari M, McDermott S. 2014. Fish at the interface: How oceanic, estuarine and riverine fish interact...or not [abstract]. Presented at: RARGOM Annual Science Meeting; 30 Sep 2014; Boston MA; p 13.
- Lasley-Rasher R, Stevens J, Lipsky C, Brady D, Jumars P. 2014. Exploring the importance of top-down and bottom-up drivers of mysid distribution in the Penobscot Estuary, Maine [poster]. Presented at: 144th Meeting of the American Fisheries Society; 17-21 Aug 2014; Quebec City QC.
- Lavery A, Lawson G, Jech M, Nonboe Andersen L, Condiotty J, Weber T, Lanzoni C, Macaulay G. 2014. Standard target calibration of Simrad EK80 Wide Band Transceivers (WBTs) [abstract]. Presented at: ICES Working Group on Fisheries Acoustics, Science and Technology (WGFAST) Meeting; 6-9 May 2014; New Bedford MA. ICES CM 2014/SSGESST:07; p 27-28.
- Lawson G, Jech M, Lavery A, Price V, Charriere N, Roebuck C. 2014. Field measurements of volume backscattering strength from fish and zooplankton over a wide frequency band (15-400 kHz) [abstract]. Presented at: ICES Working Group on Fisheries Acoustics, Science and Technology (WGFAST) Meeting; 6-9 May 2014; New Bedford MA. ICES CM 2014/SSGESST:07; p 14.
- Li Y, Ji R, Fratantoni PS, Chen C, Hare JA, Davis CS, Beardsley RC. 2014. Linking wind and surface salinity fluctuations on the Northwest Atlantic Shelf: Mechanisms and Implications [poster]. Presented at: Ocean Sciences Meeting; 23-28 Feb 2014; Honolulu HI.

- Li Y, Ji R, Fratantoni PS, Chen C, Sun Y, Hare JA. 2014. Changing rhythm of stratification on the Northwest Atlantic shelf: interannual variability and its biological implications [abstract]. Presented at: RARGOM Annual Science Meeting; 30 Sep 2014; Boston MA; p 6.
- Li Y, Meseck SL, Dixon MS, Bernatchez G, Rose JM, Galimany E, Petit M, Wikfors GH. 2014. The importance of considering primary productivity in bivalve aquaculture site selection – an example from the Bronx, NY [abstract]. Presented at: 34th Milford Aquaculture Seminar; 24-26 Feb 2014; Shelton CT; p 29. J Shellfish Res. 33:556.
- Lipsky C, Smith B, Rowe S, Sheehan T, O'Malley M. 2014. Groundfish predation on diadromous fish in the Gulf of Maine [abstract]. Presented at: Atlantic Salmon Ecosystems Forum; 8-9 Jan 2014; Orono ME.
- Lovell S, Steinback S. 2014. The US national marine recreational fishing expenditure survey [abstract]. Presented at: 144th Meeting of the American Fisheries Society; 17-21 Aug 2014; Quebec City QC.
- Lucey SM, Aydin KY, Gaichas SK, Fogarty MJ, Hyun SY, Cadrin SX. 2014. Improving the EBFM toolbox with an alternative open source mass balance model [abstract]. Presented at: Ecopath 30 Years; 4-14 Nov 2014; Barcelona, Spain.
- Lucey SM, Gaichas SK, Aydin KY. 2014. A tale of two systems: Testing the robustness of mean trophic level of the catch as an ecosystem indicator [abstract]. Presented at: 144th Meeting of the American Fisheries Society; 17-21 Aug 2014; Quebec City QC.
- McBride RS. 2014. Use and nonuse of tests of symmetry in age validation studies [abstract]. Presented at: 5th International Otolith Symposium; 20-24 Oct 2014; Mallorca, Spain; p 258.
- McElroy WD, Terceiro M. 2014. Female summer flounder maturity: A 30 year time-series and accuracy of macroscopic classifications [abstract]. Presented at: 14th Flatfish Biology Conference; 3-4 Dec. 2014; Westbrook CT; p 21.
- McElroy WD, Wuenschel MJ, Towle EK, McBride RS. 2014. Spatial and annual variation in fecundity and oocyte atresia of yellowtail flounder (*Limanda ferruginea*) in US waters [abstract]. Presented at: The 9th International Flatfish Symposium; 9-14 Nov 2014; Cle Elum WA.
- Melrose DC, Krumholz J, McManus MC. 2014. Measuring changes in total phytoplankton-sized particulate volume over time as a proxy for primary production and food availability in Narragansett Bay, RI [abstract]. Presented at: 34th Milford Aquaculture Seminar; 24-26 Feb 2014; Shelton CT; p 29. J Shellfish Res. 33:558.
- Mercaldo-Allen R, Goldberg R, Kuropat C, Clark P, Roy J. 2014. A field-based nursery system to “head start” lobsters for improved post-release survival in potential stock enhancement efforts: a progress report [abstract]. Presented at: 34th Milford Aquaculture Seminar; 24-26 Feb 2014; Shelton CT; p 29. J Shellfish Res. 33:558.

- Meseck S, Mercaldo-Allen R, Kuropat C, Clark P, Bernatchez G, Goldberg R. 2014. Is there a link between shellfish dredging, carbonate chemistry, and bivalve settlement on the surface of marine sediments? [abstract]. Presented at: 34th Milford Aquaculture Seminar; 24-26 Feb 2014; Shelton CT; p 29. *J Shellfish Res.* 33:558.
- Miller TJ, Hyun SY. 2014. A state-space age-structured assessment model that accommodates environmental effects on demographic parameters and biological reference points [abstract]. Presented at: ICES Annual Science Conference; 15-19 Sep 2014; A Coruña, Spain. *ICES CM 2014/G:33*; 2 p.
- Munroe D, Hart D, Shank B, Haidvogel D, Wang J, Powell EN, Klinck J, Hofmann E. 2014. The role of larval dispersal from rotating closures in the Atlantic sea scallop (*Placopecten magellanicus*) fishery [abstract]. Presented at: 144th Meeting of the American Fisheries Society; 17-21 Aug 2014; Quebec City QC.
- Munroe TA, Ross SW, Rhode MP, Quattrini AM. 2014. *In situ* observations from ROVs provide rare insights on occurrences, distributions, habitat and behavior of flatfishes (Teleostei: Pleuronectiformes) in and near submarine canyons on the outer continental shelf and upper continental slope off eastern US [abstract]. Presented at: 14th Flatfish Biology Conference; 3-4 Dec. 2014; Westbrook CT; p 28.
- Munroe TA, Tuckey TD, Fabrizio MC. 2014. Are climate induced changes evident in the flatfish assemblage of Lower Chesapeake Bay and its major tributaries? A multi-decadal perspective [abstract]. Presented at: 14th Flatfish Biology Conference; 3-4 Dec. 2014; Westbrook CT; p 37.
- Murphy T, Das C, Kitts A. 2014. Understanding the total costs of commercial fishing in the northeast [abstract]. Presented at: 39th Annual Maine Fishermen's Forum; 27 Feb-1 Mar 2014; Rockport ME.
- Murphy T, Henry A, McPherson M. 2014. New England groundfish fishermen: Adaptation and transition [abstract]. Presented at: Social Coast Forum 2014: Exploring the Values of the Coast; 18-20 Feb 2014; Charleston SC.
- Murphy T, Kitts A, Records D, Demarest C, Caless D, Walden J, Benjamin S. 2014. Performance of the northeast groundfish fishery [abstract]. Presented at: NEFMC Council Meeting; 29 Jan 2014; Portsmouth NH.
- Palmer MC, Hersey P, Marotta H, Shield G, Cierpich SB. 2014. The design, implementation and performance of an observer pre-trip notification system (PTNS) for the northeast United States groundfish fishery [abstract]. Presented at: Second International Symposium on Fishery Dependent Information; 3-6 Mar 2014; Rome, Italy.
- Passerotti MS, Andrews AH, Carlson JK, Wintner SP, Goldman KJ, Natanson LJ. 2014. Validated lifespan of sand tiger shark *Carcharias taurus* from bomb radiocarbon dating in the western North Atlantic and southwestern Indian Oceans [abstract]. Presented at: Sharks International 2014; 2-6 Jun 2014; Durban, South Africa.

- Pereira JJ, Howell P, Schultz E, Auster P. 2014. A geospatial analysis of winter flounder (*Pseudopleuronectes americanus*) habitat use in Long Island Sound [abstract]. Presented at: 14th Flatfish Biology Conference; 3-4 Dec. 2014; Westbrook CT; p 16.
- Pierdomenico M, Guida V, Macelloni L, Gong D, Scranton M, Dierks A, Rona P. 2014. Understanding the Hudson Submarine Canyon fishing 'hotspot': The contribute of seafloor morphology, water mass dynamic and natural gas emission on marine biodiversity [abstract]. Presented at: The 2nd International Symposium on Submarine Canyons; 29 Sep- 1 Oct 2014; Edinburgh, UK.
- Pierdomenico M, Guida VG, Macelloni L, Chiocci FL, Rona PA, Scranton MI , Asper V, Diercks A. 2014. Sedimentary facies, geomorphic features and habitat distribution at the Hudson Canyon head from AUV multibeam data [abstract]. Presented at: In Honor and Memory of Dr. Peter A. Rona - International Deep-Sea Symposium; 17-18 Jun 2014; New Brunswick NJ.
- Pinto da Silva P, Olson J, Ratzel M, Baker A, Benjamin S. 2014. Seafood and regional food systems: An inquiry into the use and distribution of New England fish landings [abstract]. Presented at: Society for Applied Anthropology 74th Annual Meeting; 18-22 Mar 2014; Albuquerque NM; p 191.
- Pitchford S, Reynaud Y, De Decker S, Wikfors GH, Brown CL. 2014. Molecular characterization of *Vibrio vulnificus* isolated from eastern oysters (*Crassostrea virginica*) from the northeastern coast of the US and comparison with clinical strains [abstract]. Presented at: 34th Milford Aquaculture Seminar; 24-26 Feb 2014; Shelton CT; p 29. J Shellfish Res. 33:560.
- Renkawitz, MD, Sheehan TF, MacLean SA, Barbash P. 2014. Testing for infectious salmon anemia virus (ISAv) and infectious pancreatic necrosis virus (IPNV) in mixed-stock aggregations of Atlantic salmon (*Salmo salar*) harvested along the coast of West Greenland from 2003–2012 [abstract]. Presented at: International Council for the Exploration of the Sea Working Group on North Atlantic Salmon Annual Meeting; 19-28 Mar 2014; Copenhagen, Denmark.
- Rheuban J, Cooley SR, Hart D, Hare J, Doney SC. 2014. Modeling the social and ecological effects of climate change on the US Atlantic sea scallop fishery [abstract]. Presented at: AGU Science Policy Conference; 16-18 Jun 2014; Washington DC.
- Richards RA. 2014. Northern shrimp: Canary in a coal mine? [abstract]. Presented at: 144th Meeting of the American Fisheries Society; 17-21 Aug 2014; Quebec City QC.
- Rosendale J, Phelan-Hill B, Dement J. 2014. Summer flounder (*Paralichthys dentatus*) tag retention of the dorsal loop tag in the laboratory [poster]. Presented at: 14th Flatfish Biology Conference; 3-4 Dec. 2014; Westbrook CT; p 43.
- Rowe S, Smith BE. 2014. Food web ecology of *Citharichthys arctifrons*, Gulf Stream flounder in the northwest Atlantic [abstract]. Presented at: 14th Flatfish Biology Conference; 3-4 Dec. 2014; Westbrook CT; p 24.

- Ryan MC, Jech M. 2014. Acoustic scattering web tool [abstract]. Presented at: ICES Working Group on Fisheries Acoustics, Science and Technology (WGFAST) Meeting; 6-9 May 2014; New Bedford MA. ICES CM 2014/SSGESST:07; p 14.
- Saba VS, Hyde KJ, Rebeck ND, Fogarty MJ, Fratantoni PS. 2014. Climate driven interannual variability of spring phytoplankton biomass in the United States northeast shelf [poster]. Presented at: Ocean Sciences Meeting; 23-28 Feb 2014; Honolulu HI.
- Sheehan T. 2014. "Why bother, we can't do anything about the ocean anyway" [abstract]. Presented at: Atlantic Salmon Ecosystems Forum; 8-9 Jan 2014; Orono ME.
- Simpson C, Wilberg MJ, Nesslage G, Scheller AM, Bi H, Walsh HJ. 2014. Estimating Atlantic menhaden larval abundance along the Atlantic Coast of the United States [abstract]. Presented at: 144th Meeting of the American Fisheries Society; 17-21 Aug 2014; Quebec City QC.
- Smith BE, Lucey SM. 2014. Using fish diets as ecosystem indicators: are fish feeding down the food web on Georges Bank? [abstract]. Presented at: 144th Meeting of the American Fisheries Society; 17-21 Aug 2014; Quebec City QC.
- Smith BE, Rowe S. 2014. Temporal trends in forage fish availability and predation in the northwest Atlantic with ties to climate change [abstract]. Presented at: 144th Meeting of the American Fisheries Society; 17-21 Aug 2014; Quebec City QC.
- Steinback S, Wallmo K, Lovell S, Thunberg E. 2014. The value of saltwater recreational fishing in Massachusetts: Separating truth from fiction [abstract]. Presented at: 144th Meeting of the American Fisheries Society; 17-21 Aug 2014; Quebec City QC.
- Stevens JR, O'Malley MB, Saunders R, Sheehan T. 2014. Pelagic fish biomass in the Penobscot Estuary [abstract]. Presented at: Atlantic Salmon Ecosystems Forum; 8-9 Jan 2014; Orono ME.
- Stiles S, Choromanski J, Jeffress D. 2014. Developmental and genetic evaluation of pH effects on selected lines of bay scallops [abstract]. Presented at: 34th Milford Aquaculture Seminar; 24-26 Feb 2014; Shelton CT; p 29. J Shellfish Res. 33:563.
- Towle EK, McElroy WD, McBride RS. 2014. Sources of variation in estimates of summer flounder, *Paralichthys dentatus*, batch fecundity [abstract]. Presented at: 14th Flatfish Biology Conference; 3-4 Dec. 2014; Westbrook CT; p 46.
- Van Parijs S, Baumgartner M, Cholewiak D, Davis G, Gerlach D, Stanistreet J. 2014. Large scale Western Atlantic wide scale analysis of existing Passive Acoustic data for baleen Whales (WAPAW) [abstract]. Presented at: North Atlantic Right Whale Consortium; 5-6 Nov 2014; New Bedford MA.
- Walden J, Das C. 2014. Measuring fishing fleet productivity change using a biomass adjusted Lowe Index [abstract]. Presented at: North American Productivity Workshop VIII; 4-7 Jun 2014; Ottawa-Gatineau ON.

- Walden J, Fare R, Grosskopf S. 2014. Productivity change in the Mid-Atlantic surfclam and ocean quahog Individual Transferable Quota (ITQ) fishery: 1980-2011 [abstract]. Presented at: 2014 Asia-Pacific Productivity Conference; 8-11 Jul 2014; Brisbane, Australia.
- Walsh HJ, Hare JA, Richardson DE, Marancik KE. 2014. Long-term changes in the distribution of larval and mature adult fishes on the northeast US shelf [abstract]. Presented at: 144th Meeting of the American Fisheries Society; 17-21 Aug 2014; Quebec City QC.
- Waring GT. 2014. Status and management issues regarding gray seals in New England, including potential conflicts and research needed to resolve uncertainties [abstract]. Presented at: Marine Mammal Commission 2014 Annual Meeting; 6-8 May 2014; Bethesda MD.
- Weng C, Colburn LL, Jepson M. 2014. Factors affecting fishing community vulnerability and resilience in the eastern United States [abstract]. Presented at: Society for Applied Anthropology 74th Annual Meeting; 18-22 Mar 2014; Albuquerque NM; p 225.
- Wikfors GH, Galimany E, Rose JM, Dixon MS, Li Y, Meseck SL, Newell C, Dwyer L, Tedesco M. 2014. What we learned growing ribbed mussels at Hunts Point [abstract]. Presented at: 34th Milford Aquaculture Seminar; 24-26 Feb 2014; Shelton CT; p 29. *J Shellfish Res.* 33:564.
- Wikfors GH, Hégaret H, Soudant P, Persson A, Galimany E. 2014. Science to support adaptive management of shellfish aquaculture in a world of increasing harmful algal blooms [abstract]. Presented at: Aquaculture Europe 2014; 14-17 Oct 2014; San Sebastian, Spain.
- Wirgin I, Roy NK, Chambers RC, Habeck E. 2014. Vulnerabilities of Atlantic sturgeon and shortnose sturgeon to chemically and environmentally induced early life-stage toxicities [abstract]. Presented at: 2014 Spring Meeting, Southern Division of the American Fisheries Society; 23-26 Jan 2014, Charleston SC.
- Wuenschel MJ, McElroy WD, Towle EK, McBride RS. 2014. Modeling variation in fecundity of winter flounder, *Pseudopleuronectes americanus*, in US waters: Does the autodiametric method mask individual variation? [abstract]. Presented at: 14th Flatfish Biology Conference; 3-4 Dec. 2014; Westbrook CT; p 48.
- Wurtzell K, Jech M, Sherwood G. 2014. Use of commercial fishing vessels for surveying herring in the Gulf of Maine [abstract]. Presented at: ICES Working Group on Fisheries Acoustics, Science and Technology (WGFAST) Meeting; 6-9 May 2014; New Bedford MA. ICES CM 2014/SSGESST:07; p 9.

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