



**Northeast Fisheries Science Center Reference Document 16-16**

doi:10.7289/V5/RD-NEFSC-16-16

# Northeast Fisheries Science Center Publications, Reports, and Abstracts for Calendar Year 2015

Compiled by Laura S. Garner and Sheena G. Steiner

# Northeast Fisheries Science Center Publications, Reports, and Abstracts for Calendar Year 2015

Compiled by Laura S. Garner and Sheena G. Steiner

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

**U.S. DEPARTMENT OF COMMERCE**  
National Oceanic and Atmospheric Administration  
National Marine Fisheries Service  
Northeast Fisheries Science Center  
Woods Hole, Massachusetts  
December 2016

## Northeast Fisheries Science Center Reference Documents

**This series is a secondary scientific series** designed to assure the long-term documentation and to enable the timely transmission of research results by Center and/or non-Center researchers, where such results bear upon the research mission of the Center (see the outside back cover for the mission statement). These documents receive internal scientific review, and most receive copy editing. The National Marine Fisheries Service does not endorse any proprietary material, process, or product mentioned in these documents.

All documents issued in this series since April 2001, and several documents issued prior to that date, have been published electronically. To access the electronic version of a document in this series, go to <http://www.nefsc.noaa.gov/nefsc/publications/>. The electronic version is available in PDF format to permit printing of a paper copy directly from the Internet. If you do not have Internet access, please contact the senior Center author of the desired document. Refer to the title page of the document for the senior Center author's name and mailing address. If there is no Center author, or if there is corporate (*i.e.*, non-individualized) authorship, then contact the Center's Woods Hole Laboratory Library (166 Water St., Woods Hole, MA 02543-1026).

**Information Quality Act Compliance:** In accordance with section 515 of Public Law 106-554, the Northeast Fisheries Science Center completed both technical and policy reviews for this report. These predissemination reviews are on file at the NEFSC Editorial Office.

This document may be cited as:

Garner LS, Steiner SG, Compilers. 2016. Northeast Fisheries Science Center Publications, Reports, and Abstracts for Calendar Year 2015. US Dept Commer, Northeast Fish Sci Cent Ref Doc. 16-16; 24 p. Available from: National Marine Fisheries Service, 166 Water Street, Woods Hole, MA 02543-1026, or online at <http://www.nefsc.noaa.gov/publications/>

## TABLE OF CONTENTS

EDITORIAL NOTES .....	iv
PUBLICATIONS .....	1
REPORTS .....	10
ABSTRACTS/PRESENTATIONS .....	14

## 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 2015 publication or presentation date, prepared by Northeast Fisheries Science Center (NEFSC) employees. (Publications appearing “online first” in 2015 but with a 2016 print publication 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.<sup>1</sup>

---

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

## PUBLICATIONS

- Baird R, Cholewiak D, Webster DL, Schorr GS, Mahaffy SD, Curtice C, Harrison J, Van Parijs SM. 2015. Biologically Important Areas for cetaceans within US waters – Hawai'i region. In: Van Parijs SM, Curtice C, Ferguson MC, editors. Biologically Important Areas for cetaceans within US waters: A special issue. *Aquat Mamm.* 41(1):54-64, doi: [10.1578/AM.41.1.2015.54](https://doi.org/10.1578/AM.41.1.2015.54).
- Barrett J, Rose JM, Pagach J, Parker M, Deonaraine S. 2015. Development of an estuarine climate change monitoring program. *Ecol Indic.* 53:182-186, doi: [10.1016/j.ecolind.2015.01.039](https://doi.org/10.1016/j.ecolind.2015.01.039).
- Bell RJ, Richardson DE, Hare JA, Lynch PD, Fratantoni PS. 2015. 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.* 72(5):1311-1322, doi: [10.1093/icesjms/fsu217](https://doi.org/10.1093/icesjms/fsu217).
- Bisack KD, Das C. 2015. Understanding non-compliance with protected species regulations in the northeast USA gillnet fishery. *Front Mar Sci.* 2:91, doi: [10.3389/fmars.2015.00091](https://doi.org/10.3389/fmars.2015.00091).
- Bort J, Van Parijs SM, Stevick PT, Summers E, Todd S. 2015. North Atlantic right whale *Eubalaena glacialis* vocalization patterns in the central Gulf of Maine from October 2009 through October 2010. *Endang Species Res.* 26:271-280, doi: [10.3354/esr00650](https://doi.org/10.3354/esr00650).
- Braccini M, Brooks EN, Wise B, McAuley R. 2015. Displaying uncertainty in the Biological Reference Points of sharks. *Ocean Coastal Manage.* 116:143-149, doi: [10.1016/j.ocecoaman.2015.07.014](https://doi.org/10.1016/j.ocecoaman.2015.07.014).
- Breitburg DL, Salisbury J, Bernhard JM, Cai W-J, Dupont S, Doney SC, Kroeker KJ, Levin LA, Long WC, Milke LM, Miller SH, Phelan B, Passow U, Seibel BA, Todg AE. 2015. And on top of all that... Coping with ocean acidification in the midst of many stressors. *Oceanography.* 28(2):48-61, doi: [10.5670/oceanog.2015.31](https://doi.org/10.5670/oceanog.2015.31).
- Brill RW, Bushnell P, Elton T, Small H. 2015. The ability of blue crab (*Callinectes sapidus*, Rathbun 1886) to sustain aerobic metabolism during hypoxia. *J Exp Mar Biol Ecol.* 471:126-136, doi: [10.1016/j.jembe.2015.06.003](https://doi.org/10.1016/j.jembe.2015.06.003).
- Brill RW, Chin Lai N. 2015. Elasmobranch cardiovascular system. In: Shadwick RE, Farrell AP, Brauner CJ, editors. *Physiology of Elasmobranch Fishes: Internal Processes*. New York (NY): Academic Press; p 2-83.
- Brooks EN, Deroba JJ. 2015. When "data" are not data: the pitfalls of post-hoc analyses that use stock assessment model output. *Can J Fish Aquat Sci.* 72(4):634-641, doi: [10.1139/cjfas-2014-0231](https://doi.org/10.1139/cjfas-2014-0231).
- Calambokidis J, Steiger GH, Curtice C, Harrison J, Becker E, Ferguson M, DeAngeliss M, Van Parijs SM. 2015. Biologically Important Areas for selected cetaceans within US waters -- West coast region. In: Van Parijs SM, Curtice C, Ferguson MC, editors. Biologically important areas for cetaceans within US waters: A special issue. *Aquat Mamm.* 41(1):49-53, doi: [10.1578/AM.41.1.2015.39](https://doi.org/10.1578/AM.41.1.2015.39).

- Chu D, Jech JM, Tomich SD, Hufnagle LC Jr. 2015. A high-resolution acoustic imaging system to map interior fish morphology. *Mar Technol Soc J.* 49(2):59-69, doi: [10.4031/MTSJ.49.2.8](https://doi.org/10.4031/MTSJ.49.2.8).
- Collins AB, Barbieri LR, McBride RS, McCoy ED, Motta PJ. 2015. Reef relief and volume are predictors of Atlantic goliath grouper presence and abundance in the eastern Gulf of Mexico. *Bull Mar Sci.* 91(4):399-418, doi: [10.5343/bms.2015.1001](https://doi.org/10.5343/bms.2015.1001).
- Collins AB, McBride RS. 2015. Variations in reproductive potential between nearshore and offshore spawning contingents of hogfish in the eastern Gulf of Mexico. *Fish Manage Ecol.* 22(2):113-124, doi: [10.1111/fme.12102](https://doi.org/10.1111/fme.12102).
- Cooley SR, Rheuban JE, Hart DR, Luu V, Glover DM, Hare JA, Doney SC. 2015. An integrated assessment model for helping the United States sea scallop (*P. magellanicus*) fishery plan ahead for ocean acidification and warming. *PLoS ONE.* 10(5): e0124145, doi: [10.1371/journal.pone.0124145](https://doi.org/10.1371/journal.pone.0124145).
- Croxton AN, Wikfors GH, Schulterbrandt-Gragg RD III. 2015. 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 breviostris*. *Mar Pollut Bull.* 91(1):160-165.
- Cummings K, Zuke A, De Stasio B, Krumholz J. 2015. Coral growth assessment on an established artificial reef in Antigua. *Ecol Restor.* 33(1):90-95, doi: [10.3368/er.33.1.90](https://doi.org/10.3368/er.33.1.90).
- Da Costa F, Petton B, Mingant C, Bougaran G, Rouxel C, Quéré C, Wikfors GH, Soudant P, Robert R. 2015. Influence of one selected *Tisochrysis lutea* strain rich in lipids on *Crassostrea gigas* larval development and biochemical composition. *Aquacult Nutr.* 22(4):813-836, doi: [10.1111/anu.12301](https://doi.org/10.1111/anu.12301).
- Da Costa F, Robert R, Quéré C, Wikfors GH, Soudant P. 2015. Essential fatty acid assimilation and synthesis in larvae of the bivalve *Crassostrea gigas*. *Lipids.* 50(5):503-511, doi: [10.1007/s11745-015-4006-z](https://doi.org/10.1007/s11745-015-4006-z).
- DePiper GS. 2015. To bid or not to bid: The role of participation rates in conservation auction outcomes. *Am J Agric Econ.* 97(4):1157-1174, doi: [10.1093/ajae/aav017](https://doi.org/10.1093/ajae/aav017).
- Deroba JJ, Butterworth DS, Methot RD Jr, De Oliveira JAA, Fernandez C, Nielsen A, Cadrin SX, Dickey-Collas M, Legault CM, Ianelli J, Valero JL, Needle CL, O'Malley JM, Chang YJ, Thompson GG, Canales C, Swain DP, Miller DCM, Hintzen NT, Bertignac M, Ibaibarriaga L, Silva A, Murta A, Kell LT, de Moor CL, Parma AM, Dichmont CM, Restrepo VR, Ye Y, Jardim E, Spencer PD, Hanselman DH, Blaylock J, Mood M, Hulson P-J F. 2015. Simulation testing the robustness of stock assessment models to error: some results from the ICES strategic initiative on stock assessment methods. *ICES J Mar Sci.* 72(1):19-30, doi: [10.1093/icesjms/fst237](https://doi.org/10.1093/icesjms/fst237).
- Deshpande AD, Dockum BW, Draxler AFJ. 2015. Contaminant bioaccumulation dynamics in young-of-the-year bluefish subpopulations in New York Bight with a special reference to the condition and nursery area fidelity subsequent to recruitment. *Can J Fish Aquat Sci.* 73(1):35-52, doi: [10.1139/cjfas-2015-0369](https://doi.org/10.1139/cjfas-2015-0369).

- Dörner H, Graham N, Bianchi G, Bjordal A, Frederiksen M, Karp WA, Kennelly SJ, Martinsohn JT, Murray K, Pastoors M, Gudbrandsen NH. 2015. From cooperative data collection to full collaboration and co-management: A synthesis of the 2014 ICES Symposium on Fishery-dependent Information. *ICES J Mar Sci.* 72(4):1133-1139, doi: [10.1093/icesjms/fsu222](https://doi.org/10.1093/icesjms/fsu222).
- Eddy C, Bernal D, Brill RW. 2015. Rates of at-vessel mortality and post-release survival of pelagic sharks captured with tuna purse seines around drifting fish aggregating devices (FADs) in the equatorial eastern Pacific Ocean. *Fish Res.* 174:109-117, doi: [10.1016/j.fishres.2015.09.008](https://doi.org/10.1016/j.fishres.2015.09.008).
- Färe R, Grosskopf S, Walden J. 2015. Productivity change and fleet restructuring after transition to individual transferable quota management. *Mar Pol.* 62:318-325, doi: [10.1016/j.marpol.2015.05.015](https://doi.org/10.1016/j.marpol.2015.05.015).
- Ferguson MC, Curtice C, Harrison J, Van Parijs SM. 2015. Biologically Important Areas for cetaceans within US waters – Overview and rationale. In: Van Parijs SM, Curtice C, Ferguson MC, editors. Biologically important areas for cetaceans within US waters: A special issue. *Aquat Mamm.* 41(1):2-16, doi: [10.1578/AM.41.1.2015.2](https://doi.org/10.1578/AM.41.1.2015.2).
- Fields L, Mercer J, Hyde KJW, Brush M, Nixon SW, Oviatt C, Schwartz ML, Ullman D, Codiga D. 2015. A comparison of surface chlorophyll, primary production, and satellite imagery in hydrographically different sounds off southern New England. *Mar Ecol Prog Ser.* 535:29-45, doi: [10.3354/meps11386](https://doi.org/10.3354/meps11386).
- Friedland KD, Leaf RT, Kanea J, Tommasic D, Asch RG, Rebuck N, Ji R, Large SI, Stock C, Saba VS. 2015. Spring bloom dynamics and zooplankton biomass response on the US Northeast Continental Shelf. *Continent Shelf Res.* 102:47-61, doi: [10.1016/j.csr.2015.04.005](https://doi.org/10.1016/j.csr.2015.04.005).
- Friedland KD, Leaf RT, Kristiansen T, Large SI. 2015. Layered effects of parental condition and larval survival on the recruitment of neighboring haddock stocks. *Can J Fish Aquat Sci.* 72(11):1672-1681, doi: [10.1139/cjfas-2015-0084](https://doi.org/10.1139/cjfas-2015-0084).
- Fuentes MS, Meseck SL, Wikfors GH, Khan-Bureau D. 2015. 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).
- Gaichas S, Aydin K, Frances R. 2015. Wasp waist or beer belly? Modeling food web structure and energetic control in Alaskan marine ecosystems, with implications for fishing and environmental forcing. *Prog Oceanogr.* 138:1-17, doi: [10.1016/j.pocean.2015.09.010](https://doi.org/10.1016/j.pocean.2015.09.010).
- Goethel DR, Legault CM, Cadrin SX. 2015. 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. 2015. 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).



- Gopal S, Kaufman L, Pasquarella V, Ribera M, Holden C, Shank B, Pitts J. 2015. Modeling coastal and marine environmental risks in Belize: the Marine Integrated Decision Analysis System (MIDAS). *Coastal Manage.* 43(3):217-237, doi: [10.1080/08920753.2015.1030292](https://doi.org/10.1080/08920753.2015.1030292).
- Greer AT, Cowen RK, Guigand CM, Hare JA. 2015. Fine-scale planktonic habitat partitioning at a shelf-slope front revealed by a high-resolution imaging system. *J Mar Sys.* 142:111-125, doi: [10.1016/j.jmarsys.2014.10.008](https://doi.org/10.1016/j.jmarsys.2014.10.008).
- Hare JA, Brooks EN, Palmer MJ, Churchill JH. 2015. Re-evaluating the effect of wind on recruitment in Gulf of Maine Atlantic cod (*Gadus morhua*) using an environmentally-explicit stock recruitment model. *Fish Oceanogr.* 24(1):90-105, doi: [10.1111/fog.12095](https://doi.org/10.1111/fog.12095).
- Hennen DR. 2015. How should we harvest an animal that can live for centuries? *N Am J Fish Manage.* 35(3):512-527, doi: [10.1080/02755947.2015.1022271](https://doi.org/10.1080/02755947.2015.1022271).
- Higham JES, Bejder L, Allen S, Corkeron P, Lusseau D. 2015. Managing whale-watching as a non-lethal consumptive activity. *J Sustain Tourism.* 24(1):73-90, doi: [10.1080/09669582.2015.1062020](https://doi.org/10.1080/09669582.2015.1062020).
- Holland D, Thunberg E, Agar J, Crosson S, Demarest C, Kasperski S, Perruso L, Steiner E, Stephen J, Strelcheck A, Travis M. 2015. US catch share markets: a review of data availability and impediments to transparent markets. *Mar Pol.* 57:103-110, doi: [10.1016/j.marpol.2015.03.027](https://doi.org/10.1016/j.marpol.2015.03.027).
- Horodysky AZ, Cooke SJ, Brill RW. 2015. Physiology in the service of fisheries science: Why thinking mechanistically matters. *Rev Fish Biol Fish.* 25:425-447, doi: [10.1007/s11160-015-9393-y](https://doi.org/10.1007/s11160-015-9393-y).
- Hussey NE, Kessel ST, Aarestrup K, Cooke SJ, Cowley PD, Fisk AT, Harcourt RG, Holland KN, Iverson SJ, Kocik JF, Mills Flemming JE, Whoriskey FG. 2015. Aquatic animal telemetry: a window into the underwater world. *Science.* 348(6240):1255642, doi: [10.1126/science.1255642](https://doi.org/10.1126/science.1255642).
- Jacobson LD, Hendrickson L, Tang J. 2015. Solar zenith angles for biological research and an expected catch model for diel vertical migration patterns that affect stock size estimates for longfin inshore squid, *Doryteuthis pealeii*. *Can J Fish Aquat Sci.* 72(9):1329-1338, doi: [10.1139/cjfas-2014-0436](https://doi.org/10.1139/cjfas-2014-0436).
- Jech JM, Price V, Chavez-Rosales S, Michaels W. 2015. Atlantic herring (*Clupea harengus*) demographics in the Gulf of Maine from 1998 to 2012. *J Northwest Atl Fish Sci.* 47:37-54, doi: [10.2960/J.v47.m704](https://doi.org/10.2960/J.v47.m704).
- King AL, Jenkins BD, Wallace JR, Liu Y, Wikfors GH, Milke LM, Meseck SL. 2015. Effects of CO<sub>2</sub> on growth rate, C:N:P, and fatty acid composition of seven marine phytoplankton species. *Mar Ecol Prog Ser.* 537:59-69, doi: [10.3354/meps11458](https://doi.org/10.3354/meps11458).
- Klaer N, O'Boyle RN, Deroba JJ, Wayte SE, Little R, Alade LA, Rago PJ. 2015. How much evidence is required for acceptance of productivity regime shifts in fish stock assessments: Are we letting managers off the hook? *Fish Res.* 168:49-55, doi: [10.1016/j.fishres.2015.03.021](https://doi.org/10.1016/j.fishres.2015.03.021).

- LaBrecque E, Curtice C, Harrison J, Van Parijs SM, Halpin PM. 2015. Biologically Important Areas for cetaceans within US waters – Gulf of Mexico region. In: Van Parijs SM, Curtice C, Ferguson MC, editors. Biologically Important Areas for cetaceans within US waters: A special issue. *Aquat Mamm.* 41(1):30-38. doi: [10.1578/AM.41.1.2015.30](https://doi.org/10.1578/AM.41.1.2015.30).
- LaBrecque E, Curtice C, Harrison J, Van Parijs SM, Halpin PN. 2015. Biologically Important Areas for cetaceans within US waters -- East coast region. In: Van Parijs SM, Curtice C, Ferguson MC, editors. Biologically Important Areas for cetaceans within US waters: A special issue. *Aquat Mamm.* 41(1):17-29, doi: [10.1578/AM.41.1.2015.17](https://doi.org/10.1578/AM.41.1.2015.17).
- Large SI, Fay G, Friedland KD, Link JS. 2015. Critical points in ecosystem responses to fishing and environmental pressures. *Mar Ecol Prog Ser.* 521:1-17, doi: [10.3354/meps11165](https://doi.org/10.3354/meps11165).
- Large SI, Fay G, Friedland KD, Link JS. 2015. Quantifying patterns of change in marine ecosystem response to multiple pressures. *PLoS One.* 10(3):e0119922, doi: [10.1371/journal.pone.0119922](https://doi.org/10.1371/journal.pone.0119922).
- Lasley-Rasher RS, Brady DC, Smith BE, Jumars PA. 2015. It takes guts to locate elusive crustacean prey. *Mar Ecol Prog Ser.* 538:1-12, doi: [10.3354/meps11481](https://doi.org/10.3354/meps11481).
- Lassudrie M, Wikfors GH, Sunila I, Alix JH, Dixon MS, Combot D, Soudant P, Fabioux C, Hégaret H. 2015. Physiological and pathological changes in the eastern oyster *Crassostrea virginica* infested with the trematode *Bucephalus* sp. and exposed to the toxic dinoflagellate *Alexandrium fundyense*. *J Invert Pathol.* 126:51-65, doi: [10.1016/j.jip.2015.01.011](https://doi.org/10.1016/j.jip.2015.01.011).
- Lee YJ, Matrai PA, Friedrichs MAM, Saba VS, Antoine D, Ardyna M, Asanuma I, Babin M, Belanger S, Benoit-Gagne M, Devred E, Fernandez-Mendez M, Gentili B, Hirawake T, Kang SH, Kameda T, Katlein C, Lee SH, Lee Z, Melin F, Scardi M, Smyth TJ, Tang S, Turpie KR, Waters KJ, Westberry TK. 2015. An assessment of phytoplankton primary productivity in the Arctic Ocean from satellite ocean color/in situ chlorophyll-*a* based models. *J Geophys Res: Oceans.* 120(9):6508–6541, doi: [10.1002/2015JC011018](https://doi.org/10.1002/2015JC011018).
- Li Y, Fratantoni PS, Ji R, Chen C, Hare JA, Sun Y, Beardsley RC, Ji R. 2015. Spatio-temporal patterns of stratification on the Northwest Atlantic shelf. *Prog Oceanogr.* 134:123-137, doi: [10.1016/j.pocean.2015.01.003](https://doi.org/10.1016/j.pocean.2015.01.003).
- Lucey SM. 2015. Value added by being a member of a professional society. *Fisheries.* 40:346, doi: [10.1080/03632415.2015.1060224](https://doi.org/10.1080/03632415.2015.1060224).
- Mackenzie CL Jr. 2015. The controversial cormorant. *Underwater Nat.* 30(2):15-19.
- McBride RS. 2015. Diagnosis of paired age agreement: a simulation of accuracy and precision effects. *ICES J Mar Sci.* 72(7):2149-2167, doi: [10.1093/icesjms/fsv047](https://doi.org/10.1093/icesjms/fsv047).
- McBride RS, O'Malley J, Gerard T, Barnett B. 2015. Conference review: 5th International Otolith Symposium. *Fisheries.* 40(9):440, doi: [10.1080/03632415.2015.1083382](https://doi.org/10.1080/03632415.2015.1083382).
- McBride RS, Smith BE. 2015. Gutshop 2015: New perspectives on feeding ecology of fishes. *Fisheries.* 40(12):604.

- McBride RS, Somarakis S, Fitzhugh GR, Albert A, Yaragina NA, Wuenschel MJ, Alonso-Fernández A, Basilone G. 2015. Energy acquisition and allocation to egg production in relation to fish reproductive strategies. *Fish Fish.* 16(1):23-57, doi: [10.1111/faf.12043](https://doi.org/10.1111/faf.12043).
- McDermott SP, Bransome NC, Sutton SE, Smith BE, Link JS, Miller TJ. 2015. Quantifying alosine prey in the diets of marine piscivores in the Gulf of Maine. *J Fish Biol.* 86(6):1811-1829, doi: [10.1111/jfb.12692](https://doi.org/10.1111/jfb.12692).
- Mercaldo-Allen R, Goldberg R, Kuropat C, Clark P, Alix R, Schreiner W, Roy J. 2015. A field-based nursery for headstarting lobsters to improve postrelease survival for potential stock enhancement in Long Island Sound, Connecticut. *N Am J Aqua.* 77:239-243, doi: [10.1080/15222055.2014.996691](https://doi.org/10.1080/15222055.2014.996691).
- Minke-Martin V, Dempson JB, Sheehan TF, Power M. 2015. Otolith-derived estimates of marine temperature use by West Greenland Atlantic salmon (*Salmo salar*). *ICES J Mar Sci*, doi: [10.1093/icesjms/fsv033](https://doi.org/10.1093/icesjms/fsv033).
- Monk MH, Powers JE, Brooks EN. 2015. Spatial patterns in species assemblages associated with the northwestern Gulf of Mexico shrimp trawl fishery. *Mar Ecol Prog Ser.* 519:1-12, doi: [10.3354/meps11150](https://doi.org/10.3354/meps11150).
- Murray KT. 2015. The importance of location and operational fishing factors in estimating and reducing loggerhead turtle (*Caretta caretta*) interactions in US bottom trawl gear. *Fish Res.* 172:440-451, doi: [10.1016/j.fishres.2015.08.012](https://doi.org/10.1016/j.fishres.2015.08.012).
- Musyl MK, Moyes CD, Brill RW, Mourato BL, West A, McNaughton LM, Chiang W-C, Sun C-L. 2015. Postrelease mortality in istiophorid billfish. *Can J Fish Aquat Sci.* 72(4):538-556, doi: [10.1139/cjfas-2014-0323](https://doi.org/10.1139/cjfas-2014-0323).
- Natanson LJ, Skomal GB. 2015. Age and growth of the white shark, *Carcharodon carcharias*, in the western North Atlantic Ocean. *Mar Freshw Res.* 66(5):387-398, doi: [10.1071/MF14127](https://doi.org/10.1071/MF14127).
- Nieland JL, Sheehan TF, Saunders R. 2015. Assessing demographic effects of dams on diadromous fish: A case study for Atlantic salmon in the Penobscot River, Maine. *ICES J Mar Sci.* 72(8):2423-2437, doi: [10.1093/icesjms/fsv083](https://doi.org/10.1093/icesjms/fsv083).
- O'Leary SJ, Feldheim KA, Fields AT, Natanson LJ, Wintner S, Hussey N, Shivji MS, Chapman DD. 2015. Genetic diversity of white sharks, *Carcharodon carcharias*, in the Northwest Atlantic and southern Africa. *J Hered.* 106(3):258-265, doi: [10.1093/jhered/esv001](https://doi.org/10.1093/jhered/esv001).
- Ou H, Au WWL, Van Parijs SM, Oleson E, Rankin S. 2015. Discrimination of frequency-modulated Baleen whale downsweep calls with overlapping frequencies. *J Acoust Soc Am.* 137:3024, doi: [10.1121/1.4919304](https://doi.org/10.1121/1.4919304).
- Oviatt C, Smith L, McManus C, Hyde K. 2015. Decadal patterns of westerly winds, temperatures, ocean gyre circulations and fish abundance: A review. *Climate.* 3(4):833-857, doi: [10.3390/cli3040833](https://doi.org/10.3390/cli3040833).
- Perry DM, Redman DH, Widman JC, Meseck S, King A, Pereira JJ. 2015. Effect of ocean acidification on growth and otolith condition of juvenile scup, *Stenotomus chrysops*. *Ecol Evol.* 5(18):4187-4196, doi: [10.1002/ece3.1678](https://doi.org/10.1002/ece3.1678).

- Pierdomenico M, Guida VG, Macelloni L, Chiocci FL, Rona PA, Scranton MI, Asper V, Diercks A. 2015. Sedimentary facies, geomorphic features and habitat distribution at the Hudson Canyon head from AUV multibeam data. *Deep-Sea Res II*. 121:112-125, doi: [10.1016/j.dsr2.2015.04.016](https://doi.org/10.1016/j.dsr2.2015.04.016).
- Pollnac RB, Seara T, Colburn LL, Jepson M. 2015. Taxonomy of USA east coast fishing communities in terms of social vulnerability and resilience. *Environ Impact Assess Rev*. 55:136-143, doi: [10.1016/j.eiar.2015.08.006](https://doi.org/10.1016/j.eiar.2015.08.006).
- Renkawitz MD, Sheehan TF, Dixon HJ, Nygaard R. 2015. Changing trophic structure and energy flow in the Northwest Atlantic: implications for Atlantic salmon feeding at West Greenland. *Mar Ecol Prog Ser*. 538:197-211, doi: [10.3354/meps11470](https://doi.org/10.3354/meps11470).
- Reynaud Y, Millet J, Couvin D, Rastogi N, Brown C, Couppié P, Legrand E. 2015. Heterogeneity among *Mycobacterium ulcerans* from French Guiana revealed by multilocus variable number tandem repeat analysis (MLVA). *PLoS ONE*. 10(2): e0118597, doi: [10.1371/journal.pone.0118597](https://doi.org/10.1371/journal.pone.0118597).
- Rona P, Guida V, Scranton M, Gong D, Macelloni L, Pierdomenico M, Diercks A-R, Asper V, Haag S. 2015. Hudson submarine canyon head offshore New York and New Jersey: A physical and geochemical investigation. *Deep-Sea Res II*. 121:213-232, doi: [10.1016/j.dsr2.2015.07.019](https://doi.org/10.1016/j.dsr2.2015.07.019).
- Rose JM, Bricker SB, Ferreira JG. 2015. Comparative analysis of modeled nitrogen removal by shellfish farms. *Mar Pollut Bull*. 91(1):185-190, doi: [10.1016/j.marpolbul.2014.12.006](https://doi.org/10.1016/j.marpolbul.2014.12.006).
- Saba VS, Hyde KJW, Rebeck ND, Friedland K, Hare JA, Kahru M, Fogarty MJ. 2015. Physical associations to spring phytoplankton biomass interannual variability in the US Northeast Continental Shelf. *J Geophys Res: Biogeosci*. 120(2):205-220, doi: [10.1002/2014JG002770](https://doi.org/10.1002/2014JG002770).
- Saba VS, Stock CA, Dunne JP. 2015. Marine primary productivity connections to leatherback biology and behavior. In: Spotila J, Santidrián-Tomillo P, editors. *The Leatherback Turtle: Biology and Conservation*. Baltimore (MD): Johns Hopkins University Press; p. 173-184.
- Santidrián-Tomillo, P, Saba VS, Lombard CD, Valiulis JM, Robinson NJ, Paladino FV, Spotila JR, Fernández C, Rivas ML, Tucek J, Nel R, Oro D. 2015. Global analysis of the effect of local climate on the hatchling output of leatherback turtles. *Sci Rep*. 5:16789, doi: [10.1038/srep16789](https://doi.org/10.1038/srep16789).
- Senft-Batoh CD, Dam HG, Shumway SE, Wikfors GH, Schlichting CD. 2015. Influence of predator-prey evolutionary history, chemical alarm-cues, and feeding selection on induction of toxin production in a marine dinoflagellate. *Limnol Oceanogr*. 60(1):318-328, doi: [10.1002/lno.10027](https://doi.org/10.1002/lno.10027).
- Seyoum S, Collins AB, Puchlutegui C, McBride RS, Tringali MD. 2015. Genetically determined population structure of hogfish (Labridae: *Lachnolaimus maximus*) in the southeastern United States. *Fish Bull*. 113(4): 442-455, doi: [10.7755/FB.113.7](https://doi.org/10.7755/FB.113.7).

- Silber GK, Adams JD, Asaro MJ, Cole TVN, Moore KS, Ward-Geiger LI, Zoodsma BJ. 2015. The right whale mandatory ship reporting system: a retrospective. PeerJ. 3:e866, doi: [10.7717/peerj.866](https://doi.org/10.7717/peerj.866).
- Smith LA, Gamble R, Gaichas S, Link J. 2015. Simulations to evaluate management trade-offs among marine mammal consumption needs, commercial fishing fleets and finfish biomass. Mar Ecol Prog Ser. 523:215-232, doi: [10.3354/meps11129](https://doi.org/10.3354/meps11129).
- Smith LA, Link JS, Cadrin SX, Palka DL. 2015. Consumption by marine mammals on the Northeast US Continental Shelf. Ecol Appl. 25(2):373-389, doi: [10.1890/13-1656.1](https://doi.org/10.1890/13-1656.1).
- Smolowitz RJ, Patel SH, Haas HL, Miller SA. 2015. Using a remotely operated vehicle (ROV) to observe loggerhead sea turtle (*Caretta caretta*) behavior on foraging grounds off the mid-Atlantic United States. J Exp Mar Biol Ecol. 471:84-91, doi: [10.1016/j.jembe.2015.05.016](https://doi.org/10.1016/j.jembe.2015.05.016).
- Spotila JR, Saba VS, Patel SH, Santidrián-Tomillo P. 2015. Warming climate: A new threat to the leatherback turtle. In: Spotila J, Santidrián-Tomillo P, editors. The Leatherback Turtle: Biology and Conservation. Baltimore (MD): Johns Hopkins University Press; p. 185-195.
- Steenbeek J, Buszowski J, Christensen V, Akoglu E, Aydin K, Ellis N, Felinto D, Guitton J, Lucey S, Kearney K, Mackinson S, Pan M, Platts M, Walters C. 2015. Ecopath with Ecosim as a model-building toolbox: source code capabilities, extensions, and variations. Ecol Model. 319:178-189, doi: [10.1016/j.ecolmodel.2015.06.031](https://doi.org/10.1016/j.ecolmodel.2015.06.031).
- Stehlik LL, Phelan-Hill BA, Rosendale J, Hare JA. 2015. Gastric evacuation rates in male clearnose skate (*Leucoraja eglanteria*) in the laboratory. J Northw Atl Fish Sci. 47:29-36, doi: [10.2960/J.v47.m700](https://doi.org/10.2960/J.v47.m700).
- Stich DS, Kinnison MT, Kocik JF, Zydlewski JD. 2015. Initiation of migration and movement rates of Atlantic salmon smolts in fresh water. Can J Fish Aquat Sci. 72(9):1339-1351, doi: [10.1139/cjfas-2014-0570](https://doi.org/10.1139/cjfas-2014-0570).
- Stich DS, Zydlewski GB, Kocik JF, Zydlewski JD. 2015. Linking behavior, physiology, and survival of Atlantic salmon smolts during estuary migration. Mar Coastal Fish. 7(1):68-86, doi: [10.1080/19425120.2015.1007185](https://doi.org/10.1080/19425120.2015.1007185).
- Stock CA, Pegion K, Vecchi GA, Alexander MA, Tommasi D, Bond NA, Fratantoni PS, Gudgel RG, Kristiansen T, O'Brien TD, Xue Y, Yang X. 2015. Seasonal sea surface temperature anomaly prediction for coastal ecosystems. Prog Oceanogr. 137(A):219-236, doi: [10.1016/j.pocean.2015.06.007](https://doi.org/10.1016/j.pocean.2015.06.007).
- Stoll J, Pinto da Silva P, Olson J, Benjamin S. 2015. Expanding the 'geography' of resilience in fisheries by bringing focus to seafood distribution systems. Ocean Coastal Manage. 116:185-192, doi: [10.1016/j.ocecoaman.2015.07.019](https://doi.org/10.1016/j.ocecoaman.2015.07.019).
- Sturdivant SK, Perchik M, Brill RW, Bushnell PG. 2015. Metabolic responses of the Nereid polychaete, *Alitta succinea*, to hypoxia at two different temperatures. J Exp Mar Biol Ecol. 473: 161-168, doi: [10.1016/j.jembe.2015.09.001](https://doi.org/10.1016/j.jembe.2015.09.001).

- Thomisch K, Boebel O, Zitterbart DP, Samaran F, Van Parijs S, Van Opzeeland I. 2015. Effects of subsampling of passive acoustic recordings on acoustic metrics. *J Acoust Soc Am*. 138(1):267-278, doi: [10.1121/1.4922703](https://doi.org/10.1121/1.4922703).
- Thunberg E, Walden JB, Agar J, Felthoven R, Harley A, Kasperski S, Lee J, Lee T, Mamula A, Stephens J, Strelcheck A. 2015. Measuring changes in multi-factor productivity in US catch share fisheries. *Mar Policy*. 62:294-301, doi: [10.1016/j.marpol.2015.05.008](https://doi.org/10.1016/j.marpol.2015.05.008).
- Tommasi D, Nye J, Stock C, Hare J, Alexander M, Drew K. 2015. Effect of environmental conditions on juvenile recruitment of alewife (*Alosa pseudoharengus*) and blueback herring (*Alosa aestivalis*) in fresh water: a coastwide perspective. *Can J Fish Aquat Sci*. 72(7):1037-1047, doi: [10.1139/cjfas-2014-0259](https://doi.org/10.1139/cjfas-2014-0259).
- Trippel NA, Allen MS, McBride RS. 2015. Importance of resident and seasonally transient prey to largemouth bass in the St. Johns River, Florida. *Trans Am Fish Soc*. 144(1):140-149, doi: [10.1080/00028487.2014.982177](https://doi.org/10.1080/00028487.2014.982177).
- Van Parijs SM. 2015. Letter of introduction to the Biologically Important Areas issue. In: Van Parijs SM, Curtice C, Ferguson MC, editors. *Biologically Important Areas for cetaceans within US waters: A special issue*. *Aquat Mamm*. 41(1):1, doi: [10.1578/AM.41.1.2015.1](https://doi.org/10.1578/AM.41.1.2015.1).
- Van Parijs SM, Baumgartner M, Cholewiak D, Davis G, Gedamke J, Gerlach D, Haver S, Hatch J, Hatch L, Hotchkin C, Izzi A, Klinck H, Matzen E, Risch D, Silber GK, Thompson M. 2015. NEPAN: A US northeast passive acoustic sensing network for monitoring, reducing threats and the conservation of marine animals. *Mar Technol Soc J*. 49(2):70-86.
- Van Parijs SM, Curtice C, Ferguson MC, editors. 2015. *Biologically Important Areas for cetaceans within US waters: A special issue*. *Aquat Mamm*. 41(1):128 p, doi: [10.1578/AM.41.1.2015.1](https://doi.org/10.1578/AM.41.1.2015.1).
- Walden JB, Fissel B, Squires D, Vestergaard N. 2015. Productivity change in commercial fisheries: An introduction to the special issue. *Mar Pol*. 62:289-293, doi: [10.1016/j.marpol.2015.06.019](https://doi.org/10.1016/j.marpol.2015.06.019).
- Walsh HJ, Richardson DE, Marancik KE, Hare JA. 2015. Long-term changes in the distributions of larval and adult fish in the Northeast US Shelf Ecosystem. *PLOS One*. 10(9):e0137382, doi: [10.1371/journal.pone.0137382](https://doi.org/10.1371/journal.pone.0137382).
- Walsh ML, Fairchild EA, Rennels N, Howell WH, Mercaldo-Allen R, Kuropat C. 2015. The effects of live and artificial diets on feeding performance of cultured winter flounder, *Pseudopleuronectes americanus*, in the wild: Survival, feeding, growth, and nucleic acid analyses. *J World Aquacult Soc*. 46(5):461-474, doi: [10.1111/jwas.12210](https://doi.org/10.1111/jwas.12210).
- Warden M, Haas H, Rose K, Richards P. 2015. A spatially explicit population model of simulated fisheries impact on loggerhead sea turtles (*Caretta caretta*) in the Northwest Atlantic Ocean. *Ecol Model*. 299:23-39, doi: [10.1016/j.ecolmodel.2014.11.025](https://doi.org/10.1016/j.ecolmodel.2014.11.025).
- Welch H, Pressey RL, Heron SF, Ceccarelli DM, Hobday AJ. 2015. Regimes of chlorophyll-a in the Coral Sea: implications for evaluating adequacy of marine protected areas. *Ecography*. 38:1-16, doi: [10.1111/ecog.01450](https://doi.org/10.1111/ecog.01450).

Yan S, Catanese G, Brown CL, Wang M, Yang C, Yang T. 2015. Phylogeographic study on the chub mackerel (*Scomber japonicus*) in the Northwestern Pacific indicates the late Pleistocene population isolation. *Mar Ecol.* 36(3):753-765, doi: [10.1111/maec.12267](https://doi.org/10.1111/maec.12267).

## REPORTS

Adams CF, Miller TJ, Manderson JP, Richardson DE, Smith BE. 2015. Butterfish 2014 stock assessment. NEFSC Ref Doc. 15-06; 110 p, doi: [10.7289/V5WM1BCT](https://doi.org/10.7289/V5WM1BCT).

Bisack KD, Squires DE, Lipton DW, Hilger JR, Holland DS, Johnson DH, Lee M-Y, Lent R, Lew DK, Magnusson G, Pan M, Queirolo LE, Stohs S, Speir CL, Wallmo KA. 2015. Proceedings of the 2014 NOAA Economics of Protected Resources Workshop, September 9-11, 2014, La Jolla, California. NOAA Tech Memo NMFS NE. 233:179 p, doi: [10.7289/V5QR4V3D](https://doi.org/10.7289/V5QR4V3D).

Blaylock J, Wigley SE, Rago PJ, Mood M, Palmer MC. 2015. A brief description of Greater Atlantic Region fish and invertebrate discard estimation for the 2015 update to the National Bycatch Report. NEFSC Ref Doc. 15-03; 59 p, doi: [10.7289/V5BV7DJM](https://doi.org/10.7289/V5BV7DJM).

Bruchs C, Lipsky C, Atkinson E, Hawkes J, Haas-Castro R, Spencer R, Christman P, Winslow K. 2015. Update on Maine River Atlantic salmon smolt studies: 2014. US Atlantic Salmon Assessment Committee Meeting; 9-12 Feb 2015; Kittery ME. WP#15-02.

Busawon DS, O'Brien L, Stone HH, Clark KJ. 2015. 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 2016. TRAC Ref Doc. 2015/04; 24 p.

Colburn LL, Clay PM, Seara T, Weng C, Silva A. 2015. Social and economic impacts of Hurricane/Post Tropical Cyclone Sandy on the commercial and recreational fishing industries: New York and New Jersey one year later. NOAA Tech Memo NMFS F/SPO-157; 68 p. Online at: <http://spo.nmfs.noaa.gov/tm/TM157.pdf>.

Cole TVN, Henry AG. 2015. Serious injury determinations for baleen whale stocks along the Gulf of Mexico, United States east coast and Atlantic Canadian provinces, 2008-2012. NEFSC Ref Doc. 15-05; 43 p, doi: [10.7289/V5VD6WDD](https://doi.org/10.7289/V5VD6WDD).

Cole TVN, Henry AG. 2015. Scotian Shelf Right Whale Aerial Survey Project July 18-30, 2014. NEFSC Ref Doc. 15-09; 8 p, doi: [10.7289/V5MK69VR](https://doi.org/10.7289/V5MK69VR).

Curran KJ, Brooks EN. 2015. Proceedings of the Transboundary Resources Assessment Committee for Eastern Georges Bank Cod and Haddock, and Georges Bank Yellowtail Flounder. TRAC Proceedings. 2015/01; 29 p.

Dawicki S. 2015. NOAA Fisheries at-sea volunteer opportunities: Hands-on, hard work, and a great experience. AFS Fisheries Magazine, 2 Aug 2015.

Deroba J. 2015. Atlantic herring operational assessment report 2015. NEFSC Ref Doc. 15-16; 30 p, doi: [10.7289/V5CN71WS](https://doi.org/10.7289/V5CN71WS).

- Fratantoni PS, Holzwarth-Davis T, Bascuñán C, Taylor MH. 2015. Description of oceanographic conditions on the Northeast US Continental Shelf during 2013. NEFSC Ref Doc. 15-18; 40 p, doi: [10.7289/V5445JF2](https://doi.org/10.7289/V5445JF2).
- Fratantoni PS, Holzwarth-Davis T, Taylor MH. 2015. Description of oceanographic conditions on the Northeast US Continental Shelf during 2014. NEFSC Ref Doc. 15-21; 41 p, doi: [10.7289/V5SQ8XD2](https://doi.org/10.7289/V5SQ8XD2).
- Garner L, compiler. 2015. Northeast Fisheries Science Center publications, reports, and abstracts for calendar year 2014. NEFSC Ref Doc. 15-14; 24 p, doi: [10.7289/V5N58JBV](https://doi.org/10.7289/V5N58JBV).
- Hatch J, Orphanides C. 2015. Estimates of cetacean and pinniped bycatch in the 2013 New England sink and mid-Atlantic gillnet fisheries. NEFSC Ref Doc. 15-15; 26 p, doi: [10.7289/V5HD7SNK](https://doi.org/10.7289/V5HD7SNK).
- Hendrickson L, Nitschke P, Linton B. 2015. 2014 operational stock assessments for Georges Bank winter flounder, Gulf of Maine winter flounder, and pollock. NEFSC Ref Doc. 15-01; 228 p, doi: [10.7289/V5930R3C](https://doi.org/10.7289/V5930R3C).
- Henry A, Olson J. 2015. An overview of the survey on the socio-economic aspects of commercial fishing crew in the Northeast. NOAA Tech Memo NMFS NE. 230; 42 p, doi: [10.7289/V52J68S4](https://doi.org/10.7289/V52J68S4).
- Henry AG, Cole TVN, Hall L, Ledwell W, Morin D, Reid A. 2015. Serious injury and mortality determinations for baleen whale stocks along the Gulf of Mexico, United States East Coast and Atlantic Canadian Provinces, 2009-2013. NEFSC Ref Doc. 15-10; 48 p, doi: [10.7289/V5C53HTB](https://doi.org/10.7289/V5C53HTB).
- ICES. 2015. 2nd Interim Report of the Working Group on the Northwest Atlantic Regional Sea (WGNARS), 23–27 Feb 2015, Dartmouth, NS. ICES 2015/2015/SSGIEA:03; 42 p.
- Legault CM, Larry Alade L, Busawon D, Stone HH. 2015. Stock assessment of Georges Bank yellowtail flounder for 2015. TRAC Ref Doc. 2015/01; 66 p.
- Link JS, Griffis R, Busch S, editors; Abrams K, Baker J, Brainard R, Ford M, Hare J, Himes-Cornell A, Hollowed A, Osgood K, Mantua N, McClatchie S, McClure M, Nelson M, Rust M, Saba VS, Sigler M, Sykora-Bodi S, Termini V, Toole C, Thunberg E, Waples R, contributors. 2015. NOAA Fisheries Climate Science Strategy. US Dept Commerce, NOAA Tech Memo NMFS-F/SPO-155; 70 p. Online at: <http://spo.nmfs.noaa.gov/tm/TM155.pdf>
- Loring P, Clay PM. 2015. Fisheries and Coastal Communities -- a new Topical Interest Group for the SfAA. SfAA News 26:2.
- Lyssikatos MC. 2015. Estimates of cetacean and pinniped bycatch in Northeast and mid-Atlantic bottom trawl fisheries, 2008-2013. NEFSC Ref Doc. 15-19; 20 p, doi: [10.7289/V5348HB4](https://doi.org/10.7289/V5348HB4).
- Matzen E, Milliken H, Lowell N. 2015. Development and testing of a tow time data logger to monitor and enforce tow time restrictions in trawl fisheries. NOAA Tech Memo NMFS NE. 234; 15 p, doi: [10.7289/V56W9813](https://doi.org/10.7289/V56W9813).



- Miller TJ, Legault CM. 2015. Technical details for ASAP version 4. NEFSC Ref Doc. 15-17; 136 p, doi: [10.7289/V57W695G](https://doi.org/10.7289/V57W695G).
- Murphy T, Kitts A, Demarest C, Walden J. 2015. 2013 final report on the performance of the northeast multispecies (groundfish) fishery (May 2013 - April 2014). NEFSC Ref Doc. 15-02; 106 p, doi: [10.7289/V5XS5SB9](https://doi.org/10.7289/V5XS5SB9).
- Murray K. 2015. Estimated loggerhead (*Caretta caretta*) interactions in the Mid-Atlantic scallop dredge fishery, 2009-2014. NEFSC Ref Doc. 15-20; 15 p, doi: [10.7289/V5GT5K5W](https://doi.org/10.7289/V5GT5K5W).
- Northeast Fisheries Science Center. 2015. 60th Northeast Regional Stock Assessment Workshop (60th SAW) assessment report. NEFSC Ref Doc. 15-08; 881 p, doi: [10.7289/V5W37T9T](https://doi.org/10.7289/V5W37T9T).
- Northeast Fisheries Science Center. 2015. 60th Northeast Regional Stock Assessment Workshop (60th SAW) assessment summary report. NEFSC Ref Doc. 15-07; 36 p, doi: [10.7289/V5D21VKV](https://doi.org/10.7289/V5D21VKV).
- Northeast Fisheries Science Center. 2015. Operational assessment of 20 northeast groundfish stocks, updated through 2014. NEFSC Ref Doc. 15-24; 251 p, doi: [10.7289/V5QC01G3](https://doi.org/10.7289/V5QC01G3).
- Packer D, Noji T. 2015. Northeast region. In NMFS: Our living oceans: Habitat. Status of the habitat of US living marine resources. NOAA Tech Memo NMFS-F/SPO-75; p 117-145, doi: [10.7755/TMSPO.75](https://doi.org/10.7755/TMSPO.75).
- Parks D, Kapareiko D, Hashman T, Matheny M, Wikfors GH. 2015. NOAA and Envera LLC: Exploring probiotics for shellfish aquaculture. NOAA Technology Partnerships Office website; online at <http://techpartnerships.noaa.gov/NewsArchive/TabId/306/ArtMID/1273/ArticleID/11298/NOAA-and-Envera-LLC-Exploring-Probiotics-for-Shellfish-Aquaculture.aspx>.
- Price V, Godlewski J, Jech M, McHugh N. 2015. Calibration of electronic measurement boards and length values recorded in the Fisheries Scientific Computing System (FSCS). NOAA Tech Memo NMFS NE. 232; 36 p, doi: [10.7289/V5QZ27X1](https://doi.org/10.7289/V5QZ27X1).
- Renkawitz M, Trinko Lake TR. 2015. Program and abstracts of the 2014 Atlantic Salmon Ecosystems Forum. NEFSC Ref Doc. 15-11; 57 p, doi: [10.7289/V5RV0KPJ](https://doi.org/10.7289/V5RV0KPJ).
- Sheehan T, Deschamps D, Trinko Lake T, McKelvey S, Thomas K, Toms S, Nygaard R, King TL, Robertson MJ, Ó Maoiléidigh N. 2015. The International Sampling Program: Continent of origin and biological characteristics of Atlantic salmon collected at West Greenland in 2013. NEFSC Ref Doc. 15-22; 27 p, doi: [10.7289/V5028PHT](https://doi.org/10.7289/V5028PHT).
- Sheehan TF, Belleni L, Coghlan B, Deschamps D, Haas-Castro R, Mee D, Thomas K, Nygaard R, King TL, Robertson MJ, Maoiléidigh N. 2015. The International Sampling Program: Continent of origin and biological characteristics of Atlantic salmon collected at West Greenland in 2014. NEFSC Ref Doc. 15-23; 33 p, doi: [10.7289/V5MP518G](https://doi.org/10.7289/V5MP518G).
- Smalling KL, Deshpande AD, Blazer VS, Galbraith H, Dockum BW, Romanok KR, Colella K, Deetz AC, Fisher IJ, Imbrigiotta TE, Sharack B, Sumner L, Timmons D, Trainor J, Wiczorek D, Reilly TJ, Focazio MJ. 2015. Chemical and ancillary data associated with bed sediment, young of year bluefish (*Pomatomus saltatrix*) tissue, and mussel (*Mytilus*

- edulis* and *Geukensia demissa*) tissue collected after Hurricane Sandy in bays and estuaries of New Jersey and New York, 2013–14. US Geological Survey Data Series 956; 18 p, doi: [10.3133/ds956](https://doi.org/10.3133/ds956).
- Stone HH, Brooks EN, Busawon D, Wang Y. 2015. Assessment of haddock on Eastern Georges Bank for 2015. TRAC Ref Doc. 2015/02; 78 p.
- Thunberg E, Agar J, Crosson S, Garber-Yonts B, Harley A, Kitts A, Lee T, Lian C, Liese C, Pan M, Perusso L, Silva G, Squires D, Steiner E, Stohs S. 2015. A snapshot of NOAA Fisheries data collection of commercial fishery costs. NOAA Tech Memo NMFS F/SPO 154; 331 p. Online at: <http://spo.nmfs.noaa.gov/tm/TM154.pdf>.
- Thunberg E, Lee M-Y. 2015. The Effort Control Program in the Northeast United States groundfish fishery. In: Squires D, Maunder M, Vestergaard N, Restrepo V, Metzner R, Herrick S, Hannesson R, del Valle I, Anderson P, editors. Effort Rights in Fisheries Management: General Principles and Case Studies from Around the World. FAO Fish Aquacult Proc. 34; p 8. Online at: <http://www.fao.org/3/a-i5744e.pdf>
- Terceiro M. 2015. Stock assessment update of summer flounder for 2015. NEFSC Ref Doc. 15-13; 18 p, doi: [10.7289/V57D2S4G](https://doi.org/10.7289/V57D2S4G).
- Wang Y, O'Brien L, Andrushchenko I, Clark KJ. 2015. Assessment of Eastern Georges Bank Atlantic cod for 2015. TRAC Ref Doc. 2015/03; 89 p.
- Waring GT, DiGiovanni RA Jr, Josephson E, Wood S, Gilbert J. 2015. 2012 population estimate for the harbor seal (*Phoca vitulina concolor*) in New England waters. NOAA Tech Memo NMFS NE. 235; 15 p, doi: [10.7289/V5ZC80VT](https://doi.org/10.7289/V5ZC80VT).
- Waring GT, Josephson E, Lyssikatos MC, Wenzel F. 2015. Serious injury determinations for small cetaceans and pinnipeds caught in commercial fisheries off the Northeast US coast, 2012. NEFSC Ref Doc. 15-12; 19 p, doi: [10.7289/V53N21CP](https://doi.org/10.7289/V53N21CP).
- Waring GT, Josephson E, Maze-Foley K, Rosel PE. 2015. US Atlantic and Gulf of Mexico marine mammal stock assessments 2014. NOAA Tech Memo NMFS NE. 231; 361 p, doi: [10.7289/V5TQ5ZH0](https://doi.org/10.7289/V5TQ5ZH0).
- Wenzel FW, Waring GT, Josephson E, Lyssikatos MC, Byrd BL, Horstman SC, Powell JR. 2015. Serious injury determinations for small cetaceans and pinnipeds caught in commercial fisheries off the northeast US Coast, 2013. NOAA Tech Memo NMFS NE. 236; 36 p, doi: [10.7289/V5HX19P4](https://doi.org/10.7289/V5HX19P4).
- Wigley SE, Tholke C, Blaylock J, Rago PJ, Shield G. 2015. 2015 discard estimation, precision, and sample size analyses for 14 federally managed species groups in the waters off the Northeastern United States. NEFSC Ref Doc. 15-04; 162 p, doi: [10.7289/V5DN431K](https://doi.org/10.7289/V5DN431K).

## ABSTRACTS/PRESENTATIONS

- Adams C. 2015. Forecasting the spatial structure of the Atlantic butterfish stock using survey based spatial indicators, min/max autocorrelation factor analysis and kriging [abstract]. Presented at: American Fisheries Society 145th Annual Meeting; 16-20 Aug 2015; Portland OR.
- Bamford LA, Byron C, Bass AL, Waring GT.. 2015. A parasite-pinniped-fisheries interaction: codworm (*Pseudoterranova*) in Atlantic cod (*Gadus morhua*) in the Gulf of Maine [abstract]. Presented at: Meeting of the Northwest Atlantic Seal Research Consortium: Seals and Ecosystem Health; 1-2 May 2015; Salem MA.
- Bassett C, Lavery A, Weber T, Lawson GL, Jech M. 2015. Application of broadband echosounders for detection and characterization of targets near boundaries [abstract]. Presented at: ICES Symposium, Marine Ecosystem Acoustics -- Observing the Ocean Interior in Support of Integrated Management; 25-28 May 2015; Nantes, France; p 46.
- Bell RJ, Gervelis B, Chamberlain G, Palmer M. 2015. Decreasing uncertainty; combining observer and industry-reported discards [abstract]. Presented at: American Fisheries Society 145th Annual Meeting; 16-20 Aug 2015; Portland OR.
- Blaylock J, Shepherd GR. 2015. Evaluating the vulnerability to exploitation of an atypical protogynous hermaphrodite, black sea bass (*Centropristis striata*), using a population simulation model [abstract]. Presented at: American Fisheries Society 145th Annual Meeting; 16-20 Aug 2015; Portland OR.
- Bradbury IR, Hamilton LC, Chaput G, Sheehan TF, Robertson MJ, Poole R, Morris V, Goragner H, Dempson B, Bernatchez L. 2015. Genetic mixed stock analysis of three northwest Atlantic salmon fisheries [abstract]. Presented at: American Fisheries Society 145th Annual Meeting; 16-20 Aug 2015; Portland OR.
- Bricker S, Ferreira J, Rose J, Galimany E, Wikfors GH, Landeck Miller R, Wands J, Wellman K, Rheault R, Trowbridge P, Grizzle R, Ayvazian S, Tedesco M. 2015. Eutrophication and shellfish aquaculture: Shellfish can help coastal waters! [abstract]. Presented at: CERF 2015; 8-12 Nov 2015; Portland OR.
- Carroll L, Tork M. 2015. It's never going to happen to me... until it does: A summary of safety related incidents encountered by observers in the Northeast Fisheries Observer Program [abstract]. Presented at: American Fisheries Society 145th Annual Meeting; 16-20 Aug 2015; Portland OR.
- Chamberlain G, Rossi N, Neville K, Martins A. 2015. Application of two approaches for electronic monitoring: Documenting and estimating catch on commercial vessels in the Northeast US [abstract]. Presented at: American Fisheries Society 145th Annual Meeting; 16-20 Aug 2015; Portland OR.
- Clay PM, Colburn LL. 2015. Returning from the brink: Hurricane Sandy and New York/New Jersey fishing communities [abstract]. Presented at: Society for Applied Anthropology, 75th Annual Meeting; 24-28 Mar 2015; Pittsburgh PA; p 102.

- Clay PM, Colburn LL. 2015. Social bonds and recovery: Two studies of NY/NJ post-Hurricane Sandy [abstract]. Presented at: Society for Applied Anthropology, 75th Annual Meeting; 24-28 Mar 2015; Pittsburgh PA; p 102.
- Clay PM, Colburn LL, DePiper GS. 2015. Northeast fisheries and climate change [abstract]. Presented at: NMFS Human Dimensions of Climate Change Workshop; 1 Dec 2015; Seattle WA.
- Colburn LL, Clay PM. 2015. Social impacts and lessons learned from Hurricane Sandy on commercial and recreational fishing industries in New York and New Jersey [abstract]. Presented at: NOAA Science Days; 27-29 Oct 2015; Silver Spring MD.
- Colburn LL, Jepson M, Weng C. 2015. Fishing community vulnerability and resilience to climate change and management decisions [abstract]. Presented at: Society for Applied Anthropology, 75th Annual Meeting; 24-28 Mar 2015; Pittsburgh PA; p 103.
- Colburn LL, Jepson M, Weng C. 2015. Social indicators of fishing community vulnerability and resilience: An emergent method for fisheries social impact assessment in the United States [abstract]. Presented at: MARE Conference, People and the Sea VIII: Geopolitics of the Oceans; 24-26 Jun 2015; Amsterdam; p 115.
- Croxton AN, Wikfors GH. 2015. Intracellular pH in bivalve hemocytes and responses to in vitro acid challenge [abstract]. Presented at: Joint Meeting of the Northeast Aquaculture Conference and Exposition (NACE) and the 35th Milford Aquaculture Seminar; 14-16 Jan 2015; Portland ME. J Shellfish Res. 34(2):705.
- Curti KL, Gamble RJ. 2015. Estimating species interactions among Georges Bank fish species [abstract]. Presented at: American Fisheries Society 145th Annual Meeting; 16-20 Aug 2015; Portland OR.
- Daly M, Stanistreet J, Nowacek D, Van Parijs S, Read A. 2015. Passive acoustic monitoring for North Atlantic right whales (*Eubalaena glacialis*) off Cape Hatteras, North Carolina [abstract]. Presented at: North Atlantic Right Whale Consortium Annual Meeting; 4-5 Nov 2015; New Bedford MA.
- Davis G, Gurnee J, Baumgartner M, Brault S, Woodrich D, Van Parijs S. 2015. The North Atlantic Right Whale Migratory Corridor: current patterns and past trends using long-term passive acoustic monitoring (2006 to 2014) [abstract]. Presented at: North Atlantic Right Whale Consortium Annual Meeting; 4-5 Nov 2015; New Bedford MA.
- DePiper GS, Lipton DW, Lipcius RN. 2015. Valuing ecosystem services: Oysters, denitrification, and nutrient trading programs [abstract]. Presented at: North American Association of Fisheries Economists 8th Biennial Forum; 20-22 May 2015; Ketchikan AK; p 29-30.
- Deroba J, Miller TJ. 2015. Correct in theory but wrong in practice: Bias caused by using a lognormal distribution to penalize annual recruitments in the objective function of fish stock assessments [abstract]. Presented at: 12th NSAW, Overfishing? Overfished? Approaches and challenges surrounding stock status determination criteria; 13-15 Aug 2015; Portland OR. NOAA Tech Memo NMFS-F/SPO-.162; p 43.

- Deroba JJ, Brooks EN. 2015. When ‘data’ are not data: The pitfalls of using stock assessment model output to make inference about ecosystem dynamics [abstract]. Presented at: American Fisheries Society 145th Annual Meeting; 16-20 Aug 2015; Portland OR.
- Dixon MS, Bernatchez G, Galimany E, Li JY, Meseck SL, Rose JM, Wikfors GW. 2015. Direct measurements of the nutrient management potential of ribbed mussels, *Geukensia demissa*, at two sites in upper Narragansett Bay, Rhode Island [abstract]. Presented at: Joint Meeting of the Northeast Aquaculture Conference and Exposition (NACE) and the 35th Milford Aquaculture Seminar; 14-16 Jan 2015; Portland ME. *J Shellfish Res.* 34(2):707.
- Flittner B, Milke L, Mercaldo-Allen R. 2015. Development of a high throughput microplate method for the determination of larval bivalve respiration rates in ocean acidification studies [abstract]. Presented at: 107th Annual Meeting, National Shellfisheries Association; 22-26 Mar 2015; Monterey CA. *J Shellfish Res.* 34(2):629.
- Friedland K. 2015. Climate impacts on the marine survival of Atlantic salmon [abstract]. Presented at: American Fisheries Society 145th Annual Meeting; 16-20 Aug 2015; Portland OR.
- Gamble R, Gaichas S, Fogarty M, Lucey S, Smith L. 2015. Simulation testing of a Georges Bank multispecies assessment pilot project [poster]. Presented at: ICES Annual Science Conference; 21-25 Sep 2015; Copenhagen, Denmark.
- Georgianna D, Inglis S, Stokesbury K, St. Martin K, Lee M-Y. 2015. Combining fishermen’s knowledge with economic models to locate and evaluate gray meat outbreaks in Atlantic sea scallops [abstract]. Presented at: North American Association of Fisheries Economists 8th Biennial Forum; 20-22 May 2015; Ketchikan AK; p 22.
- Getchis T, Balcom N, Concepcion A, De Guise S, Rose J. 2015. The Connecticut Shellfish Initiative: Building on the past and creating a vision for the future [abstract]. Presented at: Joint Meeting of the Northeast Aquaculture Conference and Exposition (NACE) and the 35th Milford Aquaculture Seminar; 14-16 Jan 2015; Portland ME. *J Shellfish Res.* 34(2):708.
- Goldberg R, Rose JM, Mercaldo-Allen R, Meseck S. 2015. Summarizing Milford Laboratory’s research on the ecological effects of hydraulic dredging, as used in clam cultivation in Long Island Sound [abstract]. Presented at: Joint Meeting of the Northeast Aquaculture Conference and Exposition (NACE) and the 35th Milford Aquaculture Seminar; 14-16 Jan 2015; Portland ME. *J Shellfish Res.* 34(2):709.
- Goulette G, Hawkes J, Kocik J, Manning J, Music P, Wallinga J, Zydlewski G. 2015. Opportunistic acoustic telemetry platforms 2015: Collaborations in the GOM [abstract]. Presented at: 3rd International Conference on Fish Telemetry; 13-17 Jul 2015; Halifax NS; p 133.
- Goulette G, Sheehan T, Kocik J. 2015. Ingested tag retention in striped bass [abstract]. Presented at: American Fisheries Society 145th Annual Meeting; 16-20 Aug 2015; Portland OR.

- Goulette GS, Kocik JF, Krueger C, Holbrook C, Hawkes JP, Zydlewski GB. 2015. Working at the divide: Lessons from fish in the Gulf of Maine and Great Lakes [abstract]. Presented at: American Fisheries Society 145th Annual Meeting; 16-20 Aug 2015; Portland OR.
- Gurnee J, Baumgartner M, Cholewiak D, Davis G, Van Parijs S. 2015. Passive acoustic monitoring of North Atlantic right whales along New York Bight [abstract]. Presented at: Watkins Memorial Marine Mammal Bioacoustics Symposium; 27-29 Mar 2016; New Bedford MA.
- Gurnee J, Davis G, Baumgartner M, Van Parijs S. 2015. Comparison of real time vs. archival acoustic detection of North Atlantic right whales [abstract]. Presented at: North Atlantic Right Whale Consortium Annual Meeting; 4-5 Nov 2015; New Bedford MA.
- Hamel OS, Legault CM, Methot RD Jr. 2015. Development and testing of measures of fishing impact for use in informing management [abstract]. Presented at: 12th NSAW, Overfishing? Overfished? Approaches and challenges surrounding stock status determination criteria; 13-15 Aug 2015; Portland OR. NOAA Tech Memo NMFS-F/SPO-162; p 30.
- Hawkes J, Kocik J, Goulette G, Stevens J, Byron C. 2015. Post-smolt emigration times and migration through the Gulf of Maine [abstract]. Presented at: American Fisheries Society 145th Annual Meeting; 16-20 Aug 2015; Portland OR.
- Hennen DR. 2015. Application of data poor methods in a data rich environment: A case study using the Atlantic halibut [abstract]. Presented at: American Fisheries Society 145th Annual Meeting; 16-20 Aug 2015; Portland OR.
- Hyde KW, Fogarty MJ. 2015. Application of satellite derived size-fractionated primary production estimates to improve models of fisheries production potential in the Northeast US Continental Shelf Large Marine Ecosystem [abstract]. Presented at the 2015 International Ocean Colour Science Meeting; 15-18 Jun 2015; San Francisco CA.
- Jech M, Lavery A, Lawson G, Bassett C. 2015. Acoustic observations of fish and zooplankton over a wide frequency band (15-400 kHz) [abstract]. Presented at: ICES Symposium, Marine Ecosystem Acoustics -- Observing the Ocean Interior in Support of Integrated Management; 25-28 May 2015; Nantes, France; p 48.
- Kapareiko D, Schreier HJ, Schott EJ, Jeffress D, Wikfors GH. 2015. Human health safety considerations for using *Vibrio* sp. probiotic strain OY15 as a feed supplement to improve survival of larvae of the eastern oyster (*Crassostrea virginica*): Genome sequencing and mammalian cytotoxicity assay [abstract]. Presented at: Joint Meeting of the Northeast Aquaculture Conference and Exposition (NACE) and the 35th Milford Aquaculture Seminar; 14-16 Jan 2015; Portland ME. J Shellfish Res. 34(2):712.
- Kocik JF, Hawkes JP, Goulette GS, Sheehan TF, Renkawitz MD. 2015. Using telemetry to understand Gulf of Maine Atlantic salmon marine ecology [abstract]. Presented at: 3rd International Conference on Fish Telemetry; 13-17 Jul 2015; Halifax NS; p 86.
- Kocik JF, Sheehan TF, Goulette GS, Haas-Castro RE, Hawkes JP, Lipsky CA, Nieland JL, Stevens JR, Renkawitz MD. 2015. Partitioning the sea: Advances in understanding the

- ocean ecology of Gulf of Maine Atlantic salmon [abstract]. Presented at: American Fisheries Society 145th Annual Meeting; 16-20 Aug 2015; Portland OR.
- Latimer JS, Krumholz J, Tedesco M. 2015. Environmental and management goal setting for the Long Island Sound Comprehensive Conservation and Management Plan [abstract]. Presented at: CERF 2015; 8-12 Nov 2015; Portland OR.
- Lawson G, Lavery A, Wiebe P, Jech M, Copley N. 2015. Integrated acoustic, optical, and net studies of euphausiid ecology in the Gulf of Maine [abstract]. Presented at: ICES Symposium, Marine Ecosystem Acoustics -- Observing the Ocean Interior in Support of Integrated Management; 25-28 May 2015; Nantes, France; p 133.
- Lee M-Y, Speir C, Carr-Harris A. 2015. Geographic concentration in the northeast US sea scallop fishery [abstract]. Presented at: North American Association of Fisheries Economists (NAAFE) 8th Biennial Forum: Economic Sustainability, Fishing Communities, and Working Waterfronts; 20-22 May 2015; Ketchikan AK; p 36-37.
- Lee M-Y, Steinback S, Wallmo K. 2015. Using a coupled bioeconomic model for recreational fisheries management in the northeast United States [abstract]. Presented at: North American Association of Fisheries Economists 8th Biennial Forum; 20-22 May 2015; Ketchikan AK; p 70.
- Li JY, Dixon MS, Meseck SL, Smith B, Rose JM, Wikfors GH. 2015. In vivo fluorescence based chlorophyll a measurements - how close are we to the truth? [abstract]. Presented at: Joint Meeting of the Northeast Aquaculture Conference and Exposition (NACE) and the 35th Milford Aquaculture Seminar; 14-16 Jan 2015; Portland ME. J Shellfish Res. 34(2):713.
- Lipsky C, Smith B, Rowe S, Sheehan TF, Stepanek K. 2015. Groundfish predation on diadromous fish in the Gulf of Maine [abstract]. Presented at: CERF 2015; 8-12 Nov 2015; Portland OR.
- Lucey SM, Cadrin SX, Fay G, Gaichas SK, Fogarty MJ, Link JS. 2015. Ecosystem based fisheries management: Conservation or utilization? [abstract]. Presented at: American Fisheries Society 145th Annual Meeting; 16-20 Aug 2015; Portland OR.
- Mansour I, Stiles S, Choromanski J. 2015. A preliminary assessment of the effect of increased acidity on juvenile bay scallops (*Argopecten irradians irradians*) from two genetic lines [abstract]. Presented at: Joint Meeting of the Northeast Aquaculture Conference and Exposition (NACE) and the 35th Milford Aquaculture Seminar; 14-16 Jan 2015; Portland ME. J Shellfish Res. 34(2):714.
- McBride RS. 2015. To measure is to know: Examples of variable or revised spawning rates by four species from boreal to tropical marine systems [abstract]. Presented at: American Fisheries Society 145th Annual Meeting; 16-20 Aug 2015; Portland OR.
- McCorkle DC, Cohen AL, Milke LM, Ramon B. 2015. The effects of food supply and elevated pCO<sub>2</sub> on the early development of the Atlantic surfclam (*Spisula solidissima*) [abstract]. Presented at: 107th Annual Meeting, National Shellfisheries Association; 22-26 Mar 2015; Monterey CA. J Shellfish Res. 34(2):660.

- Miller AS, Shepherd GR, Fratantoni PS. 2015. Offshore habitat preference of migrating juvenile and adult black sea bass, *Centropristis striata*, and the relationship to year-class strength [abstract]. Presented at: American Fisheries Society 145th Annual Meeting; 16-20 Aug 2015; Portland OR.
- Miller TJ, Hare JA, Alade L, Mountain DG. 2015. A state-space approach to incorporating environmental effects in stock assessment and biological reference points [abstract]. Presented at: American Fisheries Society 145th Annual Meeting; 16-20 Aug 2015; Portland OR.
- Munroe D, Poach M, Abrahamsen I, Borsetti S. 2015. Upwelling of acidified water: Not just an issue for shellfish hatcheries on the west coast of the US [abstract]. Presented at: Joint Meeting of the Northeast Aquaculture Conference and Exposition (NACE) and the 35th Milford Aquaculture Seminar; 14-16 Jan 2015; Portland ME. *J Shellfish Res.* 34(2):716.
- Murphy TB, Henry A. 2015. New England commercial ground-fishermen: Adaptation and transition [abstract]. Presented at: North American Association of Fisheries Economists (NAAFE) 8th Biennial Forum: Economic Sustainability, Fishing Communities, and Working Waterfronts; 20-22 May 2015; Ketchikan AK; p 34.
- Payne Wynne M, Aponte Clarke G, Royte J, Collins M, Saunders R, Sheehan TF. 2015. Measuring milestones: Monitoring the Penobscot River Restoration Project [abstract]. Presented at: Fish Passage 2015: International conference on river connectivity best practices and innovations; 22-24 Jun 2015; Groningen, Netherlands.
- Pitchford S, Smith B, McBride R. 2015. Needles in a haystack: Do advanced sampling techniques improve on traditional methods for finding rare prey items in the stomach contents of predators? The case of Atlantic cod (*Gadus morhua*) and the spiny dogfish (*Squalus acanthias*) [abstract]. Presented at: 2015 Winter Meeting of the Southern New England Chapter, American Fisheries Society; 24 Feb 2015; Narragansett RI; p 16-17.
- Ray S, Walden J. 2015. Economic measures of capacity utilization: A nonparametric cost function analysis [abstract]. Presented at: 14th European Workshop on Efficiency and Productivity Analysis; 15-18 Jun 2015; Helsinki, Finland.
- Redman DH, Perry DM, Sennefelder G, McGraw C. 2015. Experimental system design for studying the effects of elevated levels of CO<sub>2</sub> on various marine species [abstract]. Presented at: Joint Meeting of the Northeast Aquaculture Conference and Exposition (NACE) and the 35th Milford Aquaculture Seminar; 14-16 Jan 2015; Portland ME. *J Shellfish Res.* 34(2):719.
- Renkawitz MD, Daly E, Litz MNC, Brodeur RD, Weitkamp LA, Sheehan TF. 2015. The feeding ecology of postsmolt salmon along near-shore salinity gradients during years of contrasting river discharge [abstract]. Presented at: American Fisheries Society 145th Annual Meeting; 16-20 Aug 2015; Portland OR.
- Renkawitz M, Sheehan T, Dixon H, Nygaard R. 2015. Changing trophic structure and energy dynamics in the Northwest Atlantic influences Atlantic salmon abundance [abstract]. Presented at: 2015 Summer Science Meeting of the Southern New England Chapter, American Fisheries Society; 25 Jun 2015; Dartmouth MA; np.



- Rosa M, Ward JE, Holohan BA, Shumway SE, Wikfors GH, Pales-Espinosa E, Allam B. 2015. Quantifying surface-property profiles of microalgae to develop particle-selection models for bivalves [abstract]. Presented at: 107th Annual Meeting, National Shellfisheries Association; 22-26 Mar 2015; Monterey CA. *J Shellfish Res.* 34(2):675.
- Rose JM, Bricker SB, Getchis T, Chadwick C, Rose CM. 2015. Merging, modeling and mapping to improve shellfish aquaculture site selection [abstract]. Presented at: Joint Meeting of the Northeast Aquaculture Conference and Exposition (NACE) and the 35th Milford Aquaculture Seminar; 14-16 Jan 2015; Portland ME. *J Shellfish Res.* 34(2):720.
- Rose JM, Bricker SB, Getchis T, Chadwick C, Rose CM. 2015. Merging modeling and mapping to reduce user conflict and maximize shellfish aquaculture production [abstract]. Presented at: CERF 2015; 8-12 Nov 2015; Portland OR.
- Seara T, Clay PM, Colburn LL. 2015. Perceived adaptive capacity of commercial and for-hire fishermen one year after Hurricane Sandy [abstract]. Presented at: Society for Applied Anthropology, 75th Annual Meeting; 24-28 Mar 2015; Pittsburgh PA; p 120.
- Sheehan TF, Renkawitz MD, Smith B. 2015. All prey are not created equal [abstract]. Presented at: American Fisheries Society 145th Annual Meeting; 16-20 Aug 2015; Portland OR.
- Smith BE, Ford MD, Link JS. 2015. Bloom or bust: relating trends in jelly abundance to fish consumption, benthic scavenger abundance, and climate across a continental shelf [abstract]. Presented at: American Fisheries Society 145th Annual Meeting; 16-20 Aug 2015; Portland OR.
- Speir C, Nye J, Lee M-Y. 2015. Patterns of geographic concentration in marine capture industries [abstract]. Presented at: Western Regional Science Association 54th Annual Meeting; 15-18 Feb 2015; Tucson AZ.
- Stehlik L, Rosendale J, Phelan B, Hare JA. 2015. Evacuation rates of clearnose skate, goosefish, and summer flounder [abstract]. Presented at: 2015 Annual Meeting of the Mid-Atlantic Chapter, American Fisheries Society; 28-30 Oct 2015; Cape May NJ; p 33-34.
- Stevick PT, Bouveret L, Gandilhon N, Rinaldi C, Rinaldi R, Broms F, Carlson C, Kennedy A, Ward N, Wenzel F. 2015. So close and yet so far: Are humpback whales in the southeast Caribbean a distinct breeding group? [abstract]. Presented at: Society for Marine Mammalogy 21st Biennial Conference; 13-18 Dec 2015; San Francisco CA.
- Stich DS, Sheehan TF, Zydlewski J. 2015. Performance standards modeling for alosines in the northeast US [abstract]. Presented at: American Fisheries Society 145th Annual Meeting; 16-20 Aug 2015; Portland OR.
- Stiles S, Choromanski J, Jeffress D. 2015. Genetic and viability effects of pH on early stages of bay scallops for restoration [abstract]. Presented at: Joint Meeting of the Northeast Aquaculture Conference and Exposition (NACE) and the 35th Milford Aquaculture Seminar; 14-16 Jan 2015; Portland ME. *J Shellfish Res.* 34(2):721.
- Sugano CS, McCorkle DC, Cohen AL, Milke LM. 2015. The effects of food supply and elevated pCO<sub>2</sub> on the early development of the bay scallop (*Argopecten irradians*) [abstract].

- Presented at: 107th Annual Meeting, National Shellfisheries Association; 22-26 Mar 2015; Monterey CA. *J Shellfish Res.* 34(2):684.
- Sun J, Kitts A. 2015. Groundfish sectors business viability assessment in New England: Analyzing the date-dependent ACE leasing price and constraints of ACE utilization [abstract]. Presented at: North American Association of Fisheries Economists (NAAFE) 8th Biennial Forum: Economic Sustainability, Fishing Communities, and Working Waterfronts; 20-22 May 2015; Ketchikan AK; p 46.
- Van Parijs S, Baumgartner M, Cholewiak D, Davis G, Izzi A. 2015. NEPAN - A US NorthEast Passive Acoustic Sensing Network for monitoring and conservation of marine animals [abstract]. Presented at: Watkins Memorial Marine Mammal Bioacoustics Symposium; 27-29 Mar 2016; New Bedford MA.
- Vanderlaan ASM, Weber TC, Jech JM, Rzhhanov Y, Lutcavage ME. 2015. Direct assessment of juvenile Atlantic bluefin tuna: integrating sonar and aerial results in support of fishery independent surveys [abstract]. Presented at: ICES Symposium, Marine Ecosystem Acoustics -- Observing the Ocean Interior in Support of Integrated Management; 25-28 May 2015; Nantes, France; p 82.
- Veilleux DJ, Milke L. 2015. Comparison of growth and survival of the larval eastern oyster (*Crassostrea virginica*) fed by different methods [abstract]. Presented at: Joint Meeting of the Northeast Aquaculture Conference and Exposition (NACE) and the 35th Milford Aquaculture Seminar; 14-16 Jan 2015; Portland ME. *J Shellfish Res.* 34(2):723.
- Vollmer N, Gonzalez V, Lesage V, Potter CW, Rosel P, Wenzel FW. 2015. Detection of fine-scale population structure of the Atlantic white-sided dolphin (*Lagenorhynchus acutus*) in the western North Atlantic using RAD-seq data [abstract]. Presented at: Society for Marine Mammalogy 21st Biennial Conference; 13-18 Dec 2015; San Francisco CA.
- Walden JB, Ray S. 2015. Economic measures of capacity utilization: A nonparametric cost function analysis [abstract]. Presented at: INFORMS Annual Meeting; 1-4 Nov 2015; Philadelphia PA.
- Weitkamp LA, Goulette GS, Hawkes JP. 2015. Juvenile salmon in estuaries: comparisons between North American Atlantic and Pacific salmon populations [abstract]. Presented at: American Fisheries Society 145th Annual Meeting; 16-20 Aug 2015; Portland OR.
- Wenzel FW, Martins A, Craddock JE, Early G, Josephson E, Lentell B, Polloni P, Greer W, Waring G. 2015. Long term study on the feeding ecology of U.S. northwest Atlantic harbor seals (*Phoca vitulina concolor*) [abstract]. Presented at: Society for Marine Mammalogy 21st Biennial Conference; 13-18 Dec 2015; San Francisco CA.
- White MM, Candelmo AC, Chambers RC, Gobler CJ, King AL, Price NN, Wahle RA, Waller JD. 2015. Biological responses of multiple northeast taxa to ocean acidification [abstract]. Presented at: Joint Meeting of the Northeast Aquaculture Conference and Exposition (NACE) and the 35th Milford Aquaculture Seminar; 14-16 Jan 2015; Portland ME. *J Shellfish Res.* 34(2):725.
- Wikfors GH. 2015. New insights into the development and function of hemocyte types in oysters [abstract]. Presented at: Joint Meeting of the Northeast Aquaculture Conference and

Exposition (NACE) and the 35th Milford Aquaculture Seminar; 14-16 Jan 2015; Portland ME. *J Shellfish Res.* 34(2):726.

Wikfors GH, Mount AS. 2015. Diverse evidence for a primary role of hemocytes in oyster shell construction [abstract]. Presented at: 6th International Oyster Symposium; 21-13 Oct 2015; Cape Cod MA.

Wuenschel MJ, Deroba JJ. 2015. The reproductive biology of female Atlantic herring (*Clupea harengus*): Validating classification schemes to assess the importance of ‘skipped spawning’ [abstract]. Presented at: American Fisheries Society 145th Annual Meeting; 16-20 Aug 2015; Portland OR.

Xu H, Nye J, Hameed S, Alade L. 2015. Evaluating the relationship between the Gulf Stream index and recruitment dynamics for southern New England yellowtail flounder [abstract]. Presented at: American Fisheries Society 145th Annual Meeting; 16-20 Aug 2015; Portland OR.

# **Procedures for Issuing Manuscripts in the *Northeast Fisheries Science Center Reference Document (CRD) Series***

---

## **Clearance**

All manuscripts submitted for issuance as CRDs must have cleared the NEFSC's manuscript/abstract/webpage review process. If any author is not a federal employee, he/she will be required to sign an "NEFSC Release-of-Copyright Form." If your manuscript includes material from another work which has been copyrighted, then you will need to work with the NEFSC's Editorial Office to arrange for permission to use that material by securing release signatures on the "NEFSC Use-of-Copyrighted-Work Permission Form."

For more information, NEFSC authors should see the NEFSC's online publication policy manual, "Manuscript/abstract/webpage preparation, review, and dissemination: NEFSC author's guide to policy, process, and procedure," located in the Publications/Manuscript Review section of the NEFSC intranet page.

## **Organization**

Manuscripts must have an abstract and table of contents, and (if applicable) lists of figures and tables. As much as possible, use traditional scientific manuscript organization for sections: "Introduction," "Study Area" and/or "Experimental Apparatus," "Methods," "Results," "Discussion," "Conclusions," "Acknowledgments," and "Literature/References Cited."

## **Style**

The CRD series is obligated to conform with the style contained in the current edition of the United States Government Printing Office Style Manual. That style manual is silent on many aspects of scientific manuscripts. The CRD series relies more on the CSE Style Manual. Manuscripts should be prepared to conform with these style manuals.

The CRD series uses the American Fisheries Society's guides to names of fishes, mollusks, and decapod

crustaceans, the Society for Marine Mammalogy's guide to names of marine mammals, the Biosciences Information Service's guide to serial title abbreviations, and the ISO's (International Standardization Organization) guide to statistical terms.

For in-text citation, use the name-date system. A special effort should be made to ensure that all necessary bibliographic information is included in the list of cited works. Personal communications must include date, full name, and full mailing address of the contact.

## **Preparation**

Once your document has cleared the review process, the Editorial Office will contact you with publication needs – for example, revised text (if necessary) and separate digital figures and tables if they are embedded in the document. Materials may be submitted to the Editorial Office as email attachments or intranet downloads. Text files should be in Microsoft Word, tables may be in Word or Excel, and graphics files may be in a variety of formats (JPG, GIF, Excel, PowerPoint, etc.).

## **Production and Distribution**

The Editorial Office will perform a copy-edit of the document and may request further revisions. The Editorial Office will develop the inside and outside front covers, the inside and outside back covers, and the title and bibliographic control pages of the document.

Once the Web version of the CRD is ready, the Editorial Office will contact you to review and submit corrections or changes before the document is posted online.

A number of organizations and individuals in the Northeast Region will be notified by e-mail of the availability of the document online.

---

Research Communications Branch  
Northeast Fisheries Science Center  
National Marine Fisheries Service, NOAA  
166 Water St.  
Woods Hole, MA 02543-1026

**MEDIA  
MAIL**

## **Publications and Reports of the Northeast Fisheries Science Center**

The mission of NOAA's National Marine Fisheries Service (NMFS) is "stewardship of living marine resources for the benefit of the nation through their science-based conservation and management and promotion of the health of their environment." As the research arm of the NMFS's Northeast Region, the Northeast Fisheries Science Center (NEFSC) supports the NMFS mission by "conducting ecosystem-based research and assessments of living marine resources, with a focus on the Northeast Shelf, to promote the recovery and long-term sustainability of these resources and to generate social and economic opportunities and benefits from their use." Results of NEFSC research are largely reported in primary scientific media (*e.g.*, anonymously-peer-reviewed scientific journals). However, to assist itself in providing data, information, and advice to its constituents, the NEFSC occasionally releases its results in its own media. Currently, there are three such media:

*NOAA Technical Memorandum NMFS-NE* -- This series is issued irregularly. The series typically includes: data reports of long-term field or lab studies of important species or habitats; synthesis reports for important species or habitats; annual reports of overall assessment or monitoring programs; manuals describing program-wide surveying or experimental techniques; literature surveys of important species or habitat topics; proceedings and collected papers of scientific meetings; and indexed and/or annotated bibliographies. All issues receive internal scientific review and most issues receive technical and copy editing.

*Northeast Fisheries Science Center Reference Document* -- This series is issued irregularly. The series typically includes: data reports on field and lab studies; progress reports on experiments, monitoring, and assessments; background papers for, collected abstracts of, and/or summary reports of scientific meetings; and simple bibliographies. Issues receive internal scientific review and most issues receive copy editing.

*Resource Survey Report* (formerly *Fishermen's Report*) -- This information report is a regularly-issued, quick-turnaround report on the distribution and relative abundance of selected living marine resources as derived from each of the NEFSC's periodic research vessel surveys of the Northeast's continental shelf. This report undergoes internal review, but receives no technical or copy editing.

**TO OBTAIN A COPY** of a *NOAA Technical Memorandum NMFS-NE* or a *Northeast Fisheries Science Center Reference Document*, either contact the NEFSC Editorial Office (166 Water St., Woods Hole, MA 02543-1026; 508-495-2350) or consult the NEFSC webpage on "Reports and Publications" (<http://www.nefsc.noaa.gov/nefsc/publications/>). To access *Resource Survey Report*, consult the Ecosystem Surveys Branch webpage (<http://www.nefsc.noaa.gov/femad/ecosurvey/mainpage/>).

**ANY USE OF TRADE OR BRAND NAMES IN ANY NEFSC PUBLICATION OR REPORT DOES NOT IMPLY ENDORSEMENT.**