

# Northeast Fisheries Science Center Publications, Reports, and Abstracts for Calendar Year 2010

by Anne O'Brien and Laura Garner

January 2012

## Northeast Fisheries Science Center Publications, Reports, and Abstracts for Calendar Year 2010

by Anne O'Brien and Laura Garner
NOAA National Marine Fisheries Service
Northeast Fisheries Science Center, 166 Water St., Woods Hole, MA 02543

## **US DEPARTMENT OF COMMERCE**

National Oceanic and Atmospheric Administration National Marine Fisheries Service Northeast Fisheries Science Center Woods Hole, Massachusetts

## **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 copublished in both paper and electronic versions. To access the electronic version of a document in this series, go to <a href="http://www.nefsc.noaa.gov/nefsc/publications/">http://www.nefsc.noaa.gov/nefsc/publications/</a>. 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, or if a desired document is one of the pre-April 2001 documents available only in the paper version, you can obtain a paper copy by contacting 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).

**Editorial Treatment:** To distribute this report quickly, it has not undergone the normal technical and copy editing by the Northeast Fisheries Science Center's (NEFSC's) Editorial Office as have most other issues in the NOAA Technical Memorandum NMFS-NE series. Other than the four covers and first two preliminary pages, all writing and editing have been performed by the authors listed within

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

This document may be cited as:

O'Brien A, Garner L. 2012. Northeast Fisheries Science Center publications, reports, and abstracts for calendar year 2010. US Dept Commer, Northeast Fish Sci Cent Ref Doc. 12-02; 28 p. Available from: National Marine Fisheries Service, 166 Water Street, Woods Hole, MA 02543-1026, or online at http://www.nefsc.noaa.gov/nefsc/publications/

## **TABLE OF CONTENTS**

Introduction	2
Publications	
Reports	
Abstracts	

## INTRODUCTION

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 prepared by Northeast Fisheries Science Center (NEFSC) employees which have a 2010 publication date.

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

Availability of reprints of publications and of photocopies of reports and abstracts varies for each work. Any initial request for a reprint or photocopy should be directed to the sole/senior NEFSC author of the work.

Bibliographies of publications, reports, and abstracts for earlier years are available online at: <a href="http://www.nefsc.noaa.gov/publications/lists/">http://www.nefsc.noaa.gov/publications/lists/</a>.

## **PUBLICATIONS**

- Abbott-Jamieson S, Clay PM. 2010. The long voyage to including sociocultural analysis in NOAA's National Marine Fisheries Service. Mar Fish Rev. 72 (2):14-33.
- Bayha K, Dawson MN, Collins AG, Barbeitos M, Haddock SHD. 2010. Evolutionary relationships among Scyphozoan jellyfish families based on complete taxon sampling and phylogenetic analyses of 18S and 28S ribosomal DNA. Integ Compar Biol. 50: 436-455.
- Bentlage B, Cartwright P, Yanagihara AA, Lewis C, Richards GS, Collins AG. 2010. Evolution of box jellyfish (Cnidaria: Cubozoa), a group of highly toxic invertebrates. Proc R Soc, Ser B: Biol Sci. 277(1680):493-501.
- Blanchard JL, Coll M, Cotter J, Link J, Trenkel V, Vergnon R, Yemane D, Shin YJ. 2010. Trend analysis of indicators: a comparison of recent changes in the status of marine ecosystems around the world. ICES J Mar Sci. 67:732-744.
- Brooks EN, Powers JE, Cortés E. 2010. Analytical reference points for age-structured models: application to data-poor fisheries. ICES J Mar Sci. 67(1):165-175.
- Brown CL. 2010. Microbrewing science a primer on yeast culture for classic beer production, 2nd Edition. San Diego (CA): University Readers; 142 p.
- Buckley LJ, Lough RG, Mountain DG. 2010. Seasonal trends in mortality and growth of cod and haddock larvae on Georges Bank result in an optimal window for survival. Mar Ecol Prog Ser. 405:57-69.

<sup>1</sup>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.

- Byron CJ, Link JS. 2010. Feeding ecology of four fish: stability in some atypical demersal predators in the US Northeast Shelf Large Marine Ecosystem. Mar Ecol Prog Ser. 406:239-250.
- Cadrin SX. 2010. Stock identification of marine populations. In: Elewa AMT, ed. Morphometrics for Non-Morphometricians. Berlin: Springer-Verlag; Lecture Notes in Earth Sciences. Vol. 124; p 219-232.
- Cadrin SX. 2010. Adaptive governance: the dynamics of Atlantic fisheries management. Hum Ecol. 38:317-318.
- Colburn LL, Clay PM. 2010. Community Profiles for Northeast US Marine Fisheries. Introduction. http://www.nefsc.noaa.gov/read/socialsci/community\_profiles/.
- Coll M, Shannon LJ, Yemane D, Link J, Ojaveer H, Shin YJ. 2010. Ranking ecological relative status of exploited ecosystems using multiple indicators. ICES J Mar Sci. 67:769-786.
- Collette BB. 2010. Reproduction and development in epipelagic fishes. In: Cole KS, ed. Reproduction and sexuality in marine fishes: patterns and processes. Berkeley (CA): Univ Calif Press; p 21-63.
- Collins AB, McBride RS. 2010. Demographics by depth: spatially-explicit densities and life history dynamics of hogfish (*Lachnolaimus maximus*) in the eastern Gulf of Mexico. Fish Bull. 109:232-242.
- Courtenay WR Jr, Collette BB, Essington TE, Hilborn R, Orr JW, Pauly D, Randall JE, Smith Vaniz WF. 2010. Reply to Briggs letter to the editor. Fisheries. 35(6):296-299.
- Garrison LP, Link JS, Cieri M, Kilduff P, Sharov A, Vaughan D, Muffley B, Mahmoudi B, Latour R. 2010. An expansion of the MSVPA approach for quantifying predator-prey interactions in exploited fish communities. ICES J Mar Sci. 67:856-870.
- Gong Z, Jech M, and 14 co-authors. 2010. Low-frequency target strength and abundance of shoaling Atlantic herring (*Clupea harengus*) in the Gulf of Maine during the Ocean Acoustic Waveguide Remote Sensing 2006 experiment. J Acoust Soc Am. 127(1); 104-123.
- Govoni JJ, Hare JA, Davenport ED, Chen MH, Marancik KE. 2010. Mesoscale, cyclonic eddies as larval fish habitat along the southeast United States shelf: a Lagrangian description of the zooplankton community. ICES J Mar Sci. 67(3): 403-411.
- Hare JA, Alexander M, Fogarty MJ, Williams E, Scott J. 2010. Forecasting the dynamics of a coastal fishery species using a coupled climate-population model. Ecol Appl. 20:452-464.
- Hégaret H, Smolowitz RM, Sunila I, Shumway SE, Alix J, Dixon M, Wikfors GH. 2010. Combined effects of a parasite, QPX, and the harmful alga, *Prorocentrum minimum* on Northern quahogs, *Mercenaria mercenaria*. Mar Environ Res. 69(5):337-344.

- Hoffman M, et al (including Collette BB). 2010. The impact of conservation on the status of the world's vertebrates. Science. 330:1503-1509; DOI: 10.1126/science.1194442.
- Hogan F, Friedland KD. 2010. Retrospective growth analysis of Atlantic salmon *Salmo salar* and implications for abundance trends. J Fish Biol. 76:2502-2520.
- Horodysky AZ, Brill RW, Warrant EJ, Musick JA, Latour RJ. 2010. Comparative visual function in four piscivorous fishes inhabiting Chesapeake Bay. J Exp Biol. 213:1751-1761.
- Jacobson LD, Stokesury KDE, Allard M, Chute A, Harris BP, Hart D, Jaffarian T, Marino MC II, Nogueira JI, Rago P. 2010. Measurement errors in body size of sea scallops (*Placopecten magellanicus*) and their effect on stock assessment models. Fish Bull. 108:233-247.
- Jossi J. 2010. US NOAA Fisheries and UK SAHFOS CPR surveys: comparison of methods and data. J Plankton Res. 32(12):1623-1631.
- Judkins HL, Vecchione M, Roper CFE, Torres J. 2010. Cephalopod species richness in the wider Caribbean region. ICES J Mar Sci. 67(7):1392-1400.
- Kahn A, Matsumoto GI, Hirano Y, Collins AG. 2010. *Haliclystus californiensis*, a "new" species of stauromedusa (Cnidaria: Staurozoa) from the northeast Pacific, with a key to the species of *Haliclystus*. Zootaxa. 2518:49-59.
- Kane J, Mountain D. 2010. Major changes in the Georges Bank ecosystem, 1980s to the 1990s. Mar Ecol Prog Ser. 398:81-91.
- Kaplan DM, Hart DR, Botsford LW. 2010. Rotating spatial harvests and fishing effort displacement: a comment on Game et. al. (2009). Ecology Letters. 13: E10-E12.
- Kerr L, Cadrin SX, Secor D. 2010. The role of spatial dynamics in the stability, resilience, and productivity of an esturarine fish population. Ecol Appl. 20(2):497-507.
- Li Y, Siddiqui G, Wikfors GH. 2010. Non-lethal determination of sex and reproductive condition of Eastern oysters *Crassostrea virginica* Gmelin using protein profiles of hemolymph by Proteinchip<sup>®</sup> and SELDI-TOF-MS Technology. Aquaculture. 309:258-264.
- Link JS. 2010. Adding rigor to ecological network models by evaluating a set of pre-balance diagnostics: a plea for PREBAL. Ecol Model. 221:1582-1593.
- Link JS, Fulton EA, Gamble RJ. 2010. The Northeast US application of ATLANTIS: a full system model exploring marine ecosystem dynamics in a living marine resource management context. Prog Oceanogr. 87:214-234.
- Link JS, Megrey BA, Miller TJ, Essington T, Boldt J, Bundy A, Moksness E, Drinkwater KF, Perry RI. 2010. Comparative analysis of marine ecosystems: International Production Modelling Workshop. Biol Lett. 6:723-726.

- Link JS, Yemane D, Shannon LJ, Coll M, Shin, YJ, Hill L, Borges, MF, Bundy A, Aydin K. 2010. Relating marine ecosystem indicators to fishing and environmental drivers: an elucidation of contrasting responses. ICES J Mar Sci. 67:787-795.
- Liu JY, Brown C, Yang TB. 2010. Phylogenetic relationships of mullets (Mugilidae) in China Seas based on partial sequences of two mitochondrial genes. Biochem Syst Ecol. 38(4):647-655.
- Llopiz JK, Richardson DE, Shiroza A, Smith SL, Cowen RK. 2010. Distinctions in the diets and distributions of larval tunas and the important role of appendicularians. Limnol Oceanogr. 55:983-996.
- Lough RG. 2010. Juvenile cod (*Gadus morhua*) mortality and the importance of bottom sediment type to recruitment on Georges Bank. Fish Oceanogr. 19(2):159-181.
- Lucas Z, Natanson LJ. 2010. Shark Predation on Five Seal Species at Sable Island, Nova Scotia, Canada. Proceedings of the Nova Scotia Institute of Science Vol. 45, Part 2: 64-68.
- Lucey SM, Nye J. 2010. Shifting species assemblages in the Northeast US Continental Shelf Large Marine Ecosystem. Mar Ecol Prog Ser. 415:23-33.
- Luo Y, Brown CL, Cao J, Yang T. 2010. Seasonal dynamics of *Diplectanum grouperi* parasitism on wild versus cultured groupers Epinephelus spp. and the linkage between infestation and host species phylogeny. J Parasitol. 96(3):541-546.
- Marancik KE, Richardson DE, Lyczkowski-Shultz J, Konieczna M, Cowen RK. 2010. Evaluation of morphological characters to identify grouper (Serranidae: Epinephelini) larvae in the Gulf of Mexico using genetically identified specimens. Bull Mar Sci. 86(3):571-624.
- McBride RS. 2010. Book review: Fish Reproductive Biology: Implications for Assessment and Management. Fisheries. 35(3):148-149.
- McBride RS, Harris JE, Hyle AR, Holder JC. 2010. The spawning run of blueback herring in the St. Johns River, Florida. Trans Am Fish Soc. 139:598–609.
- McBride RS, Roche CR, Ruiz-Carus R, Bowen BW. 2010. A new species of ladyfish, of the genus *Elops* (Elopiformes: Elopidae), from the western Atlantic Ocean. Zootaxa. 2346:29-41.
- McKinney RA, Prezioso J, Oczkowski AJ, Hyde KJW. 2010. Spatial variability of nitrogen isotope ratios of particulate material from Northwest Atlantic continental shelf waters. Estaur Coast Shelf Sci. 89:287-293.
- Miranda LS, Collins AG, Marques AC. 2010. Molecules clarify a Cnidarian life cycle- the Hydrozoan *Microhydrula limopsicola* is an early life stage of the Staurozoan *Haliclystus antarcticus*. PLoS one. 5(4):e10182. doi:10.1371/journal.pone.0010182.

- Moustahfid H, Tyrrell MC, Link JS, Nye J, Smith BE, Gamble RJ. 2010. Functional feeding responses of piscivorous fishes from the Northeast US continental shelf. Oecologia. 163(4):1059-1067.
- Munroe TA, Krabbenhoft TJ. 2010. Two unusually large pre-transitional tonguefish larvae (Pleuronectiformes: Cynoglossidae: *Symphurus*) from oceanic waters near the Galápagos Islands. Bull Mar Sci. 86(1)15-33.
- Munroe TA, Ross SW. 2010. Distribution and life history of two diminutive flatfishes, *Citharichthys gymnorhinus* and *C. cornutus* (Pleuronectiformes: Paralichthyidae), in the western North Atlantic. Fish Bull. 108:323-345.
- Music PA, Hawkes JP, Cooperman MS. 2010. Magnitude and causes of smolt mortality in rotary screw traps: an Atlantic salmon case study. N Am J Fish Manage. 30: 713-722.
- Nelson GA, Armstrong MP, Stritzel-Thomson J, Friedland KD. 2010. Thermal habitat of striped bass (*Morone saxatilis*) in coastal waters of northern Massachusetts, USA, during summer. Fish Oceanogr. 19(5):370-381.
- Nye JA, Bundy A, Shackell N, Friedland KD, Link JS. 2010. Coherence in population trends of major ecological and commercial fish species in the Northwest Atlantic. ICES J Mar Sci. 67:26-40.
- Olson J. 2010. Seeding nature, ceding culture: Redefining the boundaries of the marine commons through spatial management and GIS. Geoforum. 41(2): 293-303.
- Patrick WS, Spencer P, Link JS, Ormseth O, Cope J, Field J, Kobayashi D, Gedamke T, Cortés E, Bigelow K, Overholtz WJ, Lawson P. 2010. Assessing the vulnerability of U.S. fisheries to becoming overfished or undergoing overfishing through the use of productivity and susceptibility indices. Fish Bull. 108:305-322.
- Ramirez-Llodra E, Brandt A, Danovaro R, De Mol B, Escobar E, German CR, Levin LA, Martinez Arbizu P, Menot L, Buhl-Mortensen P, Narayanaswamy BE, Smith CR, Tittensor DP, Tyler PA, Vanreusel A, Vecchione M. 2010. Deep, diverse and definitely different: unique attributes of the world's largest ecosystem. Biogeosciences. 7:2851-2899.
- Record NR, Pershing AJ, Jossi J. 2010. Biodiversity as a dynamic variable in the Gulf of Maine continuous plankton recorder transect. J Plankton Res. 32(12):1675-1684.
- Richardson De, Hare JA, Overholtz WJ, Johnson DL. 2010. Development of long-term larval indices for Atlantic herring (*Clupea harengus*) on the northeast U.S. continental shelf. ICES J Mar Sci. 67(4):617-627.
- Richardson DE, Llopiz JK, Guigand CM, Cowen RK. 2010. Larval assemblages of large and medium sized pelagic species in the Straits of Florida. Prog Oceanogr. 86:8-20.

- Rossman MC. 2010. Estimated bycatch of small cetaceans in northeast US bottom trawl fishing gear during 2000-2005. J Northwest Atl Fish Sci. 42:77-101.
- Saba VS, Friedrichs M, Carr ME, Antoine D, Armstrong RA, Asanuma I, Aumont O, Bates N, Behrenfeld M, Bennington V, Bopp L, Bruggeman J, Buitenhuis E, Church M, Ciotti A, Doney S, Dowell M, Dunne J, Dutkiewicz S, Gregg W, Hoepffner N, Hyde K, et al. 2010. The challenges of modeling depth-integrated marine primary productivity over multiple decades: A case study at BATS and HOT. Global Biogeochem Cycles. 24, GB3020, doi:10.1029/2009GB003655.
- Shaw PW, Hendrickson L, McKeown N, Stonier T, Naud MJ, Sauer WHH. 2010. Discrete spawning aggregations of loliginid squid do not represent genetically distinct populations. Mar Ecol Prog Ser. 408:117-127.
- Shea EK, Vecchione M. 2010. Ontogenic changes in diel vertical migration patterns compared with known allometric changes in three mesopelagic squid species suggest an expanded definition of a paralarva. ICES J Mar Sci. 67(7):1436-1443.
- Sherman K, Belkin I, Seitzinger S, Hoagland P, Jin D, Aquarone M-C, Adams S. 2010. Sustainability of Large Marine Ecosystems of Southeast Asia. J Sci Technol Tropics. 6:74-90.
- Shin YJ, Bundy A, Shannon LJ, Simier M, Coll M, Fulton EA, Link JS, Jouffre D, Ojaveer H, Mackinson S, Heymans J, Raid T. 2010. Can simple be useful and reliable? Using ecological indicators for representing and comparing the states of marine ecosystems. ICES J Mar Sci. 67:717-731.
- Shin YJ, Shannon LJ, Bundy A, Coll M, Blanchard JL, Borges MF, Cotter J, Cury PM, Heymans JJ, Jouffre D, Link JS, Möllmann C, Ojaveer H, Abdallahi KOM, Rochet MJ, Yemane D. 2010. Using indicators for evaluating, comparing and communicating the ecological status of exploited marine ecosystems. Part 2: Setting the scene. ICES J Mar Sci. 67:692-716.
- Smith CL, Clay PM. 2010. Measuring subjective and objective well-being: analyses from five marine commercial fisheries. Hum Organ. 69(2):158-168.
- Smolowitz RM, Milliken H, Haas H, Weeks M, Matzen E. 2010. Using sea turtle carcasses to assess the conservation potential of a turtle excluder dredge. N Am J Fish Manage. 30:993-1000.
- Stanton T, Chu D, Jech M, Irish J. 2010. New broadband methods for resonance classification and high-resolution imagery of fish with swimbladders using a modified commercial broadband echosounder. ICES J Mar Sci. 67(2):365-378.
- Thorarinsdóttir GG, Jacobson L, Ragnarsson SA, Garcia EG, Gunnarsson K. 2010. Capture efficiency and size selectivity of hydraulic clam dredges used in fishing for ocean quahogs (*Arctica islandica*): simultaneous estimation in the SELECT model. ICES J Mar Sci. 67(2): 345-354.

- Todd CD, Friedland KD, MacLean JC, Hazon N, Jensen AJ. 2010. Getting into hot water? Atlantic salmon responses to climate change in freshwater and marine environments. In: Aas Ø, Klemetsen A, Einum S, Skurdal J, editors. Atlantic Salmon Ecology. Oxford (UK): Wiley-Blackwell; p 409-444.
- Vecchione M, Bergstad OA, Byrkjedal I, Falkenhaug T, Gebruk AV, Godø OR, Gislason A, Heino M, Høines ÅS, Menezes GMM, Piatkowski U, Priede IG, Skov H, Søiland H, Sutton T, Wenneck T de L. 2010. Biodiversity patterns and processes on the Mid-Atlantic Ridge. In: McIntyre AD, ed. Life in the World's Oceans: Diversity, Distribution, and Abundance. Chichester [UK]: Blackwell Publishing Ltd; p 103-121.
- Vecchione M, Young RE, Piatkowski U. 2010. Cephalopods of the northern mid-Atlantic Ridge. Mar Biol Res. 6:25-52.
- Walden J, Tomberlin D. 2010. Estimating fishing vessel capacity: a comparison of nonparametric frontier approaches. Mar Resour Econ. 25(1) 22-36.
- Walden J, Kirkley J, Fare R. 2010. Measuring and Managing Fishing Capacity. Handbook of Marine Fisheries Conservation and Management. 546-552.
- Warden ML. 2010. Bycatch of wintering common and red-throated loons in US Atlantic gillnets. Aquat Biol. 10:167-180.

## **REPORTS**

- Broughton EA, Lough RG. 2010. General trends and interannual variability in prey selection by larval Atlantic cod and haddock from the southern flank of Georges Bank, May 1993-1999. NOAA Tech Memo NMFS-NE. 217; 104 p.
- Byron C, Bengtson D, Link J, Costa-Pierce B, Rheault R, Beutel D, Alves D. 2010. Modeling carrying capacity for bivalve aquaculture using mass-balance modeling and stakeholder collaboration. ICES CM. 2010/J:03, 31 p.
- Clay PM, Pinto da Silva P, Kitts A. 2010. Defining Social and Economic Performance Measures For Catch Share Systems in The Northeast U.S. 2010. Proceedings of the Fifteenth Biennial Conference of the International Institute of Fisheries Economics & Trade(IIFET), July 13-16, 2010, Montepellier, France: Economics of Fish Resources and Aquatic Ecosystems: Balancing Uses, Balancing Costs; np.
- Deroba JJ. 2010. An updated spatial pattern analysis for the Gulf of Maine-Georges Bank Atlantic herring complex during 1963-2009. NEFSC Ref Doc. 10-18; 18 p.
- Deroba JJ, Shepherd G, Nieland J, Link J. 2010. Stock Assessment of Atlantic Mackerel in the Northwest Atlantic 2009. TRAC Ref Doc. 2010 01 59pp.
- Despres L. 2010. NOAA Ship Albatross IV. Spritsail. 24(1).
- Ecosystems Surveys Branch. 2010. Resource Survey Report: Summer 2009 Sea Scallop Survey. Informal report; 20 p.

- Fitzhugh G, Wuenschel M, McBride R. 2010. Evaluation of bioelectrical impedance analysis (BIA) to measure condition and energy allocated to reproduction in marine fishes. In: International Conference on Electrical Bioimpedance, April 4-8, 2010, University of Florida, Gainesville. J Phys Conf Ser. 224:012137; 4 p.
- Gentner B, Kirkley J, Steinback S. 2010. Summer flounder allocation analysis. NOAA Tech Memo NMFS F/SPO. 111; 93 p.
- Glass AH, Cole TVN, Garron M. 2010. Mortality and serious injury determinations for Baleen whale stocks along the United States and Canadian eastern seaboards. NOAA Tech Memo NMFS NE. 214; 19 p.
- Hendrickson L, Showell M. 2010. Assessment of Northern shortfin squid (Illex illecebrosus) in Subareas 3+4 for 2009. NAFO Sci Counc Res Doc. 10-031 Ser No N5789 16 p.
- Holland D, Pinto da Silva P, Weirsma J. 2010. A survey of social capital and attitudes toward management in the New England groundfish fishery. NEFSC Ref Doc. 10-12; 13 p.
- ICES (Jech JM). 2010. Report of the Workshop on the Determination of Acoustic Target Strength of Redfish (WKTAR), 1-3 June 2010, Tromso, Norway. ICES CM 2010/SSGESSG:15; 33 p.
- Josephson E, Waring G. 2010. US Atlantic and Gulf of Mexico Marine Mammal Stock Assessments 2009. NOAA Tech Memo NMFS NE. 213; 528 p.
- Khan C, Cole T, Duley P, Glass A, Gatzke J. 2010. North Atlantic Right Whale Sighting Survey (NARWSS) and Right Whale Sighting Advisory System (RWSAS) 2009 Results Summary. NEFSC Ref Doc. 10-07; 6 p.
- Kohler NE, Turner PA. 2010. Preliminary Mark/Recapture Data for the Sandbar Shark (*Carcharhinus plumbeus*), Dusky Shark (*C. obscurus*), and Blacknose Shark (*C. acronotus*) in the Western North Atlantic. Southeast Data Assessment and Review 21, Data Workshop Document 38.
- Legault C, Alade L, Stone HH. 2010. Stock Assessment of Georges Bank Yellowtail flounder for 2010. TRAC Ref Doc. 2010/06: 97 p.
- Link JS, Fulton EA, Gamble RJ. 2010. Lessons learned from applying an end-to-end full system model in a well-studied fisheries context: The ATLANTIS NEUS experience. In: Drinkwater K, McBride MM, Head E, Astthorsson Ó. Report of the ICES/ESSAS Workshop on Ecosystem Studies of Sub-Arctic Seas (ICESSAS); 30 Aug 1 Sep 2010; Reykjavik (Iceland); p 39-41.
- Link JS, Ihde TF, Townsend H, Osgood K, Schirripa M, Kobayashi D, Gaichas S, Field J, Levin P, Aydin K, Watters G, Harvey C, editors. 2010. Report of the 2nd National Ecosystem Modeling Workshop (NEMoW II): Bridging The Credibility Gap Dealing with Uncertainty in Ecosystem Models. NOAA Tech Memo NMFS F/SPO. 201; 72 p.

- McCandless CT. 2010. Standardized catch rates for juvenile sandbar sharks caught during NMFS COASTSPAN longline surveys in Delaware Bay. Southeast Data Assessment and Review 21, Data Workshop Document 27.
- McCandless CT, Belcher CN. 2010. Standardized catch rates for sandbar and blacknose sharks caught during the Georgia COASTSPAN and GADNR red drum longline surveys. Southeast Data, Assessment, and Review 21, Data Workshop Document 29.
- McCandless CT, Frazier B. 2010. Standardized catch rates for sandbar and blacknose sharks caught during the South Carolina COASTSPAN and SCDNR red drum surveys. Southeast Data, Assessment, and Review 21, Data Workshop Document 30.
- McCandless CT, Hoey JJ. 2010. Standardized Catch Rates of Sandbar and Dusky Sharks from Historical Exploratory Longline Surveys Conducted by the NMFS Sandy Hook, NJ and Narragansett, RI Labs. Southeast Data Assessment and Review 21, Data Workshop Document 31.
- McCandless CT, McElroy WD, DeAngelis B, Frazier B, Belcher C, Gelsleichter J, Kneebone J, Legare B, Skomal G, Collier C. 2010. Summary Report of the 2009 Cooperative Atlantic States Shark Pupping and Nursery (COASTSPAN) Survey. An internal report to NOAA's Highly Migratory Species Management Division. NOAA Fisheries Narragansett Lab, 28 Tarzwell Drive, Narragansett, RI; 59 pp.
- McCandless CT, Natanson LJ. 2010. Standardized Catch Rates for Sandbar and Dusky Sharks Caught during the NEFSC Coastal Shark Bottom Longline Survey. Southeast Data Assessment and Review 21, Data Workshop Document 28.
- McBride RS, Bjorkstedt E, Dale D. 2010. Including habitat-specific life history rates in population models. Breakout Session 2a: Groundfish/Reef & Untrawlable/Diadromous Groups. In: Blackhart K, ed. Proceedings, 11th National Stock Assessment Workshop, St. Petersburg, FL, May 17-20, 2010. NOAA Tech Memo NMFS-F/SPO. -112; p 31-33.
- McBride RS, Hauser JW, Sutherland SJ, editors. 2010. Brodeur's Guide to Otoliths of Some Northwest Atlantic Fishes. NEFSC Ref Doc. 10-04; 35 p.
- Mercaldo-Allen R, Calabrese A, Danila D, Dixon M, Jearld A, Munroe T, Pacileo D, Powell C, Sutherland SJ. 2010. 12th Flatfish Biology Conference 2010 Program and Abstracts -- December 1-2 2010, Water's Edge Resort and Spa, Westbrook, CT. NEFSC Ref Doc. 10-21; 70 p.
- Miller TJ, Das C, Politis PJ, Miller AS, Lucey SM, Legault CM, Brown RW, Rago PJ. 2010. Estimation of Albatross IV to Henry B. Bigelow calibration factors. NEFSC Ref Doc. 10-05; 233 p.
- Northeast Fisheries Science Center. 2010. 50th Northeast Regional Stock Assessment Workshop (50th SAW) Assessment Report. NEFSC Ref Doc. 10-17; 844 p.

- Northeast Fisheries Science Center. 2010. 49th Northeast Regional Stock Assessment Workshop (49th SAW) Assessment Report. NEFSC Ref Doc. 10-03; 383 p.
- Northeast Fisheries Science Center. 2010. 49th Northeast Regional Stock Assessment Workshop (49th SAW) Assessment Summary Report. NEFSC Ref Doc. 10-01; 41 p.
- Northeast Fisheries Science Center. 2010. 50th Northeast Regional Stock Assessment Workshop (50th SAW) Assessment Summary Report. NEFSC Ref Doc. 10-09; 57 p.
- Northeast Fisheries Science Center. 2010. Standardized bycatch reporting methodology annual discard report 2010: Section 1 and 2. web documents; Section 1:240 p; Section 2:1506 p.
- O'Brien L, Worcester T. 2010. Proceedings of the Transboundary Resources Assessment Committee (TRAC) Spiny Dogfish Review. TRAC Ref Doc. 2010/01:61 p.
- Orphanides CD. 2010. Estimates of cetacean and pinniped bycatch in the 2007 and 2008 northeast sink gillnet and mid-Atlantic gillnet fisheries. NEFSC Ref Doc. 10-10; 45 p.
- Orphanides CD. 2010. Update on Harbor Porpoise Take Reduction Plan Monitoring Initiatives: Compliance and Consequential Bycatch Rates from June 2008 through May 2009. NEFSC Ref Doc. 10-22; 23 p.
- Palmer MC. 2010. A standard method to apportion groundfish catch to stock area for the purpose of real time quota monitoring under Amendment 16. NEFSC Ref Doc. 10-02; 32 p.
- Rago PJ, Sosebee KA. 2010. Biological Reference Points for Spiny Dogfish. NEFSC Ref Doc. 10-06; 52 p.
- Rose JM, Tedesco M, Wikfors GH, Yarish C. 2010. International Workshop on Bioextractive Technologies for Nutrient Remediation Summary Report. NEFSC Ref Doc. 10-19; 12 p.
- Schwartz FJ, McCandless CT, Hoey JJ. 2010. Standardized Catch Rates for Blacknose, Dusky and Sandbar Sharks Caught during a UNC Longline Survey Conducted between 1972 and 2009 in Onslow Bay, NC. Southeast Data Assessment and Review 21, Data Workshop Document 33.
- Shepherd G, Nieland J. 2010. Bluefish 2010 stock assessment update. NEFSC Ref Doc. 10-15; 33 p.
- Shepherd G, Nieland J. 2010. Black sea bass 2010 stock assessment update. NEFSC Ref Doc. 10-13; 25 p.
- Smith BE, Link JS. 2010. The trophic dynamics of 50 finfish and 2 squid species on the Northeast US continental shelf. NOAA Tech Memo NMFS NE. 216; 640 p.
- Terceiro M. 2010. Stock assessment of summer flounder for 2010. NEFSC Ref Doc. 10-14; 133 p.

- Terceiro M. 2010. Stock assessment of scup for 2010. NEFSC Ref Doc. 10-16; 86 p.
- Toran A. 2010. Northeast Fisheries Science Center publications, reports, abstracts, and web documents for calendar year 2009. NEFSC Ref Doc. 10-20; 28 p.
- Van Eeckhaute L, Brooks EN, Traver M. 2010. Assessment of Eastern Georges Bank Haddock for 2009. TRAC Ref Doc. 2009/02:98 p.
- Warden M, Bisack KD. 2010. Loggerhead sea turtle bycatch in mid-Atlantic bottom trawl fisheries: support for the Draft Environmental Impact Statement for sea turtle conservation and recovery in relation to Atlantic and Gulf of Mexico bottom trawl fisheries. NEFSC Ref Doc. 10-08; 13 p.
- Wenzel FW, Nicolas JN, Larsen F, Pace R, III. 2010. Northeast Fisheries Science Center Cetacean Biopsy Training Manual. NEFSC Ref Doc. 10-11; 18 p.

## **ABSTRACTS**

- Arruda A, Oliveira K, Wuenschel M, McElroy D, McBride RS. 2010. Evaluation of bioelectrical impedance analysis to predict condition and muscle and liver energy content of three flatfishes: winter, yellowtail and summer flounder. [abstract]. In: Conference Steering Committee, ed. 12th Flatfish Biology Conference 2010 Program and Abstracts; December 1-2 2010; Water's Edge Resort and Spa, Westbrook, CT. NEFSC Ref Doc. 10-21; p 55.
- Bachman M, Demarest C, Eayers S, Grabowski J, Harris B, Malkoski V, Packer D, Stevenson D. 2010. A spatially explicit assessment of the adverse effects of fishing on benthic habitats in the Northeast US: the Swept Area Seabed Impact model. [abstract]. In: Blackhart K, editor. Proceedings. 11th National Stock Assessment Workshop; Joint Session of the National Stock and Habitat Assessment Workshops; and 1st National Habitat Assessment Workshop. NOAA Tech Memo NMFS-F/SPO. 112; p 115.
- Baumgartner M, Lysiak N, Schuman C, Urban-Rich J, Wenzel F. 2010. The influence of copepod diel vertical migration on competition between right whales and zooplanktivorous fish. [abstract]. Presented at: Right Whale Consortium Meetings, Nov 3-4, 2010, New Bedford, MA; np.
- Belkin I, Hyde K, O'Reilly J, Ducas T. 2010. Chlorophyll and SST fronts off the US East Coast. [abstract]. Ocean Science Meeting, 2010 Feb, Portland [OR]; np.
- Benavides M, Feldheim K, Duffy C, Wintner S, Natanson L, Braccini M, and Chapman D. 2010. Global Genetic Stock Structure of the Copper (*Carcharhinus brachyurus*) and Dusky Sharks (*Carcharhinus obscurus*): Interspecific Comparisons and Implications for Management. [abstract] Presented at: the 2010 American Elasmobranch Society, Providence, RI; np.
- Bisack K, Magnusson G. 2010. Protecting marine mammals in the US: tradeoffs between public and private costs. [abstract]. The 15th bennial conference of the International Institute of Fisheries Economics & Trade; 2010 July 12-16; Montpellier, France.

- Blogoslawski WJ. 2010. Overview, 30 Years of the Milford Aquaculture Seminar. [abstract]. 30th Milford Aquaculture Seminar; 2010 Feb 8-10; Shelton, CT. J Shellfish Res. 29(2); p 541.
- Breton J, Drew R, McBride RS, Oliveira K. 2010. Development of 11 microsatellite primer sets for use in exploring gene flow and population structure yellowtail flounder (Limanda ferruginea). [abstract]. In: Conference Steering Committee, ed. 12th Flatfish Biology Conference 2010 Program and Abstracts; December 1-2 2010; Water's Edge Resort and Spa, Westbrook, CT. NEFSC Ref Doc. 10-21; p 49.
- Breton J, McBride RS, Wuenschel M, Donovan C, Oliveira K. 2010. Estimation of fecundity and development of preliminary fecundity curve for Georges Bank yellowtail flounder (Limanda ferruginea). [abstract]. In: Conference Steering Committee, ed. 12th Flatfish Biology Conference 2010 Program and Abstracts; December 1-2 2010; Water's Edge Resort and Spa, Westbrook, CT. NEFSC Ref Doc. 10-21; p 56.
- Brinson A, Die D. 2010. Ecosystem management of highly migratory species: The case of billfish. [abstract]. IIFET; Economics of fish resources and aquatic ecosystems: balancing uses, balancing costs; 2010 July 13-16; Montpellier, France; np.
- Brooks GH, Munroe T, Tuckey T. 2010. Multi-decadal abundance of hogchokers (Achiridae: *Trinectes maculatus*) in lower Chesapeake Bay and its tributaries. [abstract]. In: Conference Steering Committee, ed. 12th Flatfish Biology Conference 2010 Program and Abstracts; December 1-2 2010; Water's Edge Resort and Spa, Westbrook, CT. NEFSC Ref Doc. 10-21; p 40.
- Brooks L, Legault C. 2010. R mapping and plotting scripts for stock assessment. [abstract]. In: Blackhart K, editor. Proceedings. 11th National Stock Assessment Workshop; Joint Session of the National Stock and Habitat Assessment Workshops; and 1st National Habitat Assessment Workshop. NOAA Tech Memo NMFS-F/SPO. -112; p 117.
- Bundy A, Bohaboy E, Fu C, Hjermann D, Link J, Megrey B, Mueter F, Overholtz WJ. 2010. The whole is less than the sum of the parts: comparative analysis of aggregate surplus production across ecosystems. [abstract]. Presented at: Ecosystems 2010: Global Progress on Ecosystem-Based Fisheries Management. 26th Lowell Wakefield Symposium; Anchorage, AK; 8-11 Nov 2010; p 21.
- Bundy A, Shannon L, Shin Y, Blanchard J, Coll M, Jouffre D, Link JS. 2010. A global comparison of marine ecosystem response to fishing using a suite of ecological indicators. [abstract]. Presented at: IMBER IMBIZO II: Integrating biogeochemistry and ecosystems in a changing ocean Regional comparisons. 10-14 Oct 2010; Crete (Greece); np.
- Byron C, Bengtson D, Link J, Costa-Pierce B, Rheault R, Beutel D, Alves D. 2010. Modeling carrying capacity for bivalve aquaculture using mass-balance modeling and stakeholder collaboration. [abstract]. Presented at: ICES Annual Science Conference; 20-24 Sep 2010; Nantes (France); p 227.

- Cahill B, Levin J, Zavala-Garay J, Wilkin J, Hyde K, Schofield O. 2010. Towards an improved estimate of ecosystem dynamics in the Mid-Atlantic. [abstract]. Ocean Science Meeting, 2010 Feb, Portland [OR]; np.
- Caldarone EM, MacLean, SA, Sharack B, Beckman B. 2010. Potential indices for estimating nutritional condition and growth rates of juvenile Atlantic cod (Gadus morhua). [poster]. Presented at: 34th Annual AFS Larval Fish Conference. 31 May-3 June. Santa Fe, NM; np.
- Candelmo A, Deshpande A, Weiss J. 2010. The effect of contaminant exposure on the behavior and growth of young-of-the-year bluefish, Pomatomus saltatrix. [abstract]. In: Blackhart K, editor. Proceedings. 11th National Stock Assessment Workshop; Joint Session of the National Stock and Habitat Assessment Workshops; and 1st National Habitat Assessment Workshop. NOAA Tech Memo NMFS-F/SPO. -112; p 119.
- Chambers RC. 2010. The role of the thermal habitat niche on mortality and recruitment in summer flounder, *Paralichthys dentatus*. [abstract]. In: Blackhart K, editor. Proceedings. 11th National Stock Assessment Workshop; Joint Session of the National Stock and Habitat Assessment Workshops; and 1st National Habitat Assessment Workshop. NOAA Tech Memo NMFS-F/SPO. -112; p 120.
- Chambers RC. 2010. Expected direct and indirect effects of changing thermal regimes on fish early life stages. [abstract]. Presented at: Symposium on Reproductive and Early Life History Consequences of a Changing Environment. Larval Fish Conference; Santa Fe NM; 30 May 3 Jun 2010; np.
- Chapman D, Feldheim D, Eng R, Natanson L, and Shivji M. 2010. Is There Genetic Evidence of a Recent Population Bottleneck in White Sharks (*Carcharodon carcharias*) from the Northwest Atlantic? [abstract] Presented: at the 2010 American Elasmobranch Society, Providence, RI; np.
- Choromanski J, Stiles S, Jeffress D. 2010. Field trials of genetic lines of bay scallops (*Argopecten irradians*). [abstract]. 30th Milford Aquaculture Seminar; 2010 Feb 8-10; Shelton, CT. J Shellfish Res. 29(2):547.
- Clay PM, Olson J, Pinto Da Silva P. 2010. Fishing, food systems and sustainability. In session on new strategies for research and management in marine fisheries and protected marine resources. [abstract]. Presented at: Society for Applied Anthropology, Merida, Mexico, March; np.
- Col L, Fogarty MJ. 2010. Trends in condition factors for 40 finfish stocks off the northeast US continental shelf. [abstract]. Presented at: American Fisheries Society (AFS) 140th Annual Meeting; 12-16 Sep 2010; Pittsburgh (PA); np.
- Colburn LL, Pollnac R. 2010. Developing indicators for social impact assessment surveys. [abstract]. Presented at: Annual Meeting of the Society for Applied Anthropology, Merida, Mexico, March 23-March 27, 2010; np

- Colburn LL, Pollnac RB. 2010. Obtaining critical information in rapidly changing management regimes: selecting the sample. [abstract]. Presented at: Fisheries Dependent Information Conference, Galway, Ireland, 23- 26 August 2010; np.
- Colburn LL, Smith C, Clay PM. 2010. Properties of Subjective and Objective Well-being: Analysis from Five Marine Commercial Fisheries. Presented at: Fisheries Dependent Information Conference, Galway, Ireland, August 2010; np.
- Collins AB, McBride RS. 2010. Demographics by depth: Spatially-explicit densities and life history dynamics of hogfish (*Lachnolaimus maximus*) in the eastern Gulf of Mexico. [abstract]. In: Blackhart K, editor. Proceedings. 11th National Stock Assessment Workshop; Joint Session of the National Stock and Habitat Assessment Workshops; and 1st National Habitat Assessment Workshop. NOAA Tech Memo NMFS-F/SPO. -112; p 122.
- Cooperman MS, Kocik J, Hawkes J. 2010. Evaluating the influence of environmental conditions on the survival of out-migrating Atlantic salmon (*Salmo salar*) smolt within the Narraguagus River system, Maine, USA. Presented at: Atlantic Salmon and Their Ecosystems; 2010 June 6-7; University of Maine, Wells Conference Center. Orono, ME; np.
- Croxton AN, Alix JH, Li Y, Dixon DS, Rivara K, Milke L, Wikfors GH. 2010. A preliminary trial of the use of adult surrogates to determine hemocyte-immune status of oyster seed in a FLUPSY-based nursery. [abstract]. 30th Milford Aquaculture Seminar; 2010 Feb 8-10. Shelton, CT. J Shellfish Res. 29: 548.
- Curti KL, Collie JS, Link JS, Legault CM. 2010. Estimating species interactions in the Georges Bank fish community. [abstract]. Presented at: American Fisheries Society (AFS) 140th Annual Meeting; 12-16 Sep 2010; Pittsburgh (PA); np.
- Curtis TH, McCandless CT, Carlson JK, Pratt H Jr, Kohler NE, Burgess GH, and Skomal GB. 2010. Seasonal Distribution of White Sharks in the Northwest Atlantic Ocean. [abstract] Presented: at the 2010 American Elasmobranch Society, Providence, RI; np.
- Curtis TH, McCandless CT, Carlson JK, Pratt H Jr, Kohler KE, Burgess GH, and Skomal GB. 2010. Seasonal Distribution of White Sharks in the Northwest Atlantic Ocean. [abstract] Presented at: the International White Shark Symposium, Honolulu, Hawaii; np.
- Deroba JJ, Bence JR. 2010. A review of harvest policies: understanding the relative performance of control rules. [abstract]. In: Blackhart K, editor. Proceedings. 11th National Stock Assessment Workshop; Joint Session of the National Stock and Habitat Assessment Workshops; and 1st National Habitat Assessment Workshop. NOAA Tech Memo NMFS-F/SPO. -112; p 105.
- Dixon MS, Li Y, Croxton AN, Alix J, Fuentes S, Meseck SL, Milke L, Rose JM, Smith BC, Wikfors GH, Rivara K. 2010. Quantifying ecosystem interactions of a FLUPSY-based oyster nursery. [abstract]. NOAA Brown Bag Seminar; 2010 May 11; Silver Springs, MD; np.

- Dixon MS, Wikfors GH, Rivara K, Li Y, Meseck SL, Rose JM, Croxton AN, Milke L, Smith BC. 2010. FLUPSY observations and measurements, an update: quantifying interactions with the local environment. [abstract]. 30th Milford Aquaculture Seminar; 2010 Feb 8-10. Shelton, CT. J Shellfish Res. 29 p. 548.
- Drenkard H, Veilleux DJ. 2010. Energy efficiency improvements in algal growth systems. [abstract]. 30th Milford Aquaculture Seminar; 2010 Feb 8-10. Shelton [CT]. J Shellfish Res. 29(2); pnk.
- Duffy K, Kohler NE. 2010. Feeding Ecology of the Scalloped Hammerhead (*Sphyrna zygaena*) in the Western North Atlantic. Poster at the 2010 American Elasmobranch Society, Providence, RI; np.
- Duffy K, Kohler NE, and McElroy WD. 2010. Temporal Changes in the Diets of the Blue Shark (*Prionace glauca*) and Shortfin Mako (*Isurus oxyrinchus*) in Waters off the Northeastern United States. [abstract] Presented at: the 2010 American Elasmobranch Society, Providence, RI; np.
- Duffy W, McBride RS, Hendricks M, Oliveira K. 2010. Validation of an otolith ageing method for American shad Alosa sapidissima. [abstract]. AFS Southern New England Chapter Meeting; 2010 Jan 28; Groton [CT]; np.
- Duffy W, McBride RS, Hendricks M, Cadrin SX, Oliveira K. 2010. Validation of an otolith ageing method for American shad *Alosa sapidissima*. [abstract]. Presented at: American Fisheries Society (AFS) 140th Annual Meeting; 12-16 Sep 2010; Pittsburgh (PA). Invited talk for symposium Restoration of American Shad and River Herring in Atlantic Coastal Waters; np.
- Fogarty MJ, Gaichas S, Benoit H, Essington T, Fu C, Gamble R, Koen-Alonso M, Link JS. 2010. Assembly rules for aggregate-species production models: simulations in support of management strategy evaluation. [abstract]. Presented at: Ecosystems 2010: Global Progress on Ecosystem-Based Fisheries Management. 26th Lowell Wakefield Symposium; Anchorage, AK; 8-11 Nov 2010; p 32.
- Fogarty MJ, Liu H. 2010. Fish community dynamics on Georges Bank: a state space modeling approach. [abstract]. 2010 Ocean Sciences Meeting; 2010 Feb 22-26; Portland (OR); np.
- Fogarty MJ, Ecosystems Assessment Program. 2010. Ecosystem based fishery management for the northeast US continental shelf: options for implementation. [abstract]. Presented at: American Fisheries Society (AFS) 140th Annual Meeting; 12-16 Sep 2010; Pittsburgh (PA); np.
- Fogarty MJ, Overholtz WJ, Link JS. 2010. Ecosystem-based fishery management for the Northeast US continental shelf: options for implementation. [abstract]. Presented at: Ecosystems 2010: Global Progress on Ecosystem-Based Fisheries Management. 26th Lowell Wakefield Symposium; Anchorage, AK; 8-11 Nov 2010; p 19.

- Foley A, Wuenschel M, McBride RS, Sutherland SJ, Brooks E, Friedland KD. 2010. Evaluating inter-annual variability in haddock growth using otolith growth increments obtained from digital image analysis. [abstract]. Presented at: Winter Meeting of the Southern New England Chapter of the American Fisheries Society; Groton, CT; 28 January 2010; np.
- Fuentes MS, Wikfors GH. 2010. Hazard assessment of amnesic shellfish poisoning in New England. [abstract]. 30th Milford Aquaculture Seminar; 2010 Feb 8-10; Shelton [CT]. J Shellfish Res. 29(2); pnk.
- Gamble RJ, Link JS, Fulton EA. 2010. ATLANTIS-NEUS: Exploring ecosystem dynamics, possible management actions, and climate scenarios in the northeast US large marine ecosystem with ATLANTIS. [abstract]. Presented at: American Fisheries Society (AFS) 140th Annual Meeting; 12-16 Sep 2010; Pittsburgh (PA); np.
- Goldberg R, Mercaldo-Allen R, Meseck S, Pereira J, Clark P, Kuropat C, Sennenfelder G. 2010. Measuring Ecological Impact of Shellfish Cultivation and Harvest-Experimental Design and Effects on Benthic Biota [abstract]. 30th Milford Aquaculture Seminar; 2010 Feb 8-10; Shelton [CT]. J Shellfish Res. 29(2); pnk.
- Goulette GS, Renkawitz MD, Hawkes JP, Sheehan TF, Kocik JF. 2010. Atlantic salmon and the sea; estuarine and marine phase ecology in the Northwest Atlantic. [abstract]. 12th Salmon Ocean Ecology Meeting; 2010 March 24-25; Santa Cruz, CA; np.
- Goulette GS, Lipsky CA. 2010. Efficacy of coded wire tags for non-lethal batch identification of Atlantic salmon parr. [abstract]. 36th Annual Meeting of the Atlantic International Chapter of the American Fisheries Society; 2010 Sept 19-21; Prince Edward Island, Nova Scotia, Canada; np.
- Guida V, Valentine PC. 2010. Biotopes in a fisheries "habitat hot spot": investigating Georges Bank patch complexes in the larger context of habitat assessment. [abstract]. In: Blackhart K, editor. Proceedings. 11th National Stock Assessment Workshop; Joint Session of the National Stock and Habitat Assessment Workshops; and 1st National Habitat Assessment Workshop. NOAA Tech Memo NMFS-F/SPO. -112; p 127.
- Hare JA, Fogarty MJ, Friedland KD, Link JS, Nye J, Overholtz WJ, Richardson DE. 2010. Climate change and fisheries in the northeast US shelf Large Marine Ecosystem. [abstract]. Presented at: American Fisheries Society (AFS) 140th Annual Meeting; 12-16 Sep 2010; Pittsburgh (PA); np.
- Hare MP, Weinberg J, Peterfalvy O, Davidson M. 2010. Commercially harvest "southern" surfclams found in Long Island Sound, New York, well north of their typical range. [abstract]. 2010 ICES Annual Science Conference; 2010 September 20-24; Nantes, France; np.
- Hart D. 2010. Quantifying the tradeoff between precaution and yield in fishery reference points. [abstract]. In: Blackhart K, editor. Proceedings. 11th National Stock Assessment Workshop; Joint Session of the National Stock and Habitat Assessment Workshops; and

- 1st National Habitat Assessment Workshop. NOAA Tech Memo NMFS-F/SPO. -112; p 105.
- Hawkes JP, Kocik JF, Sheehan TF. 2010. Times Series Assessment of Anadromous Atlantic Salmon Smolt Production in the Narraguagus River, Maine USA [abstract]. Presented at: American Fisheries Society (AFS) 140<sup>th</sup> Annual Meeting; 12-16 Sep 2010; Pittsburg, PA; np.
- Hendrickson LC, Jacobson L. 2010. Estimation of stock biomass for longfin inshore squid (*Loligo pealeii*) based on simple bounds for survey bottom trawl catchability. [abstract]. Presented at: the annual meeting of the Working Group on Cephalopod Fisheries and Life History. Sukarietta, Spain; np.
- Hyde K, O'Reilly J, Gregg W, Hare JA, Friedland KD. 2010. Multi-decadal analysis of phytoplankton biomass and production in the northeast US continental shelf Large Marine Ecosystem. [abstract]. Ocean Science Meeting, 2010 Feb, Portland [OR]; np.
- Jearld A, Yoder J, Gutierrez B. 2010. The Woods Hole Partnership Education Program (PEP): Expanding diversity in the ocean and environmental sciences. [abstract]. 2010 Ocean Sciences Meeting; 2010 Feb 22-26; Portland (OR); np.
- Jech JM, Stroman F. 2010. Shapes and sizes of Atlantic herring spawning queues on Georges Bank: 1999-2008. [abstract]. ICES Working Group on Fisheries Acoustic Science and Technology; 2010 April 27-30; San Diego, CA; np.
- Jech JM, Stanton TK. 2010. Broadband methods for resonance classification and high-resolution imagery of fish with swimbladders using a modified commercial broadband echosounder. ICES WG-FAST. San Diego, CA. May 2010; np.
- Kalinoski M, Brill RW, Hirons AC. 2010. Visual physiology of the smooth dogfish shark (Mustelus canis) with implications on behavioral ecology. [abstract]. 74TH Annual Meeging of the Florida Academy of Sciences; 2010 March 19-20; Indian River State College, Ft. Pierce, FL; np.
- Kapareiko D, Wikfors GH, Alix JH, Schott E, Schreier HJ, McIntosh D, Rash JM, Ukaegbu O. 2010. Potential mechanisms by which a prospective probiotic bacterium can improve survival of oyster larvae (*Crassostrea Virginica*): competitive exclusion or immune regulation. [abstract]. 30th Milford Aquaculture Seminar; 2010 Feb 8-10. Shelton, CT. J Shellfish Res. 29(2); pnk.
- Kapareiko D, Wikfors GH, Alix JH, Schott E, McIntosh D, Schreier HJ, Ukaegbu O, Rash JM. 2010. Competitive exclusion or immune response? How does a prospective probiotic bacterium function in larvae of the oyster *Crassostrea virginica*?[abstract]. World Aquaculture Society Meeting; 2010 Mar 1-5; San Diego [CA]; np.
- Keith C. 2010. Developing an essential fish habitat geodatabase, workflow and data model. [abstract]. In: Blackhart K, editor. Proceedings. 11th National Stock Assessment Workshop; Joint Session of the National Stock and Habitat Assessment Workshops; and

- 1st National Habitat Assessment Workshop. NOAA Tech Memo NMFS-F/SPO. -112; p 132.
- Kirkley JE, Walden JB, Fare R . 2010. A preliminary ecosystem assessment for Atlantic sea herring (*Clupea harengus*): A general equilibrium framework. Invited presentation, International of Fisheries Economics and Trade biennial meeting, Montpelier, France. July 2010.
- Kocik JF, Hawkes JP, Sheehan TF, Music PA, Beland KF. 2010. Coastal migration and survival of Atlantic salmon smolts in the Narraguagus River. [abstract]. Atlantic salmon and their ecosystems; 2010 Jan 6-7; University of Maine, Wells Conference Center; Orono, ME; np.
- Kohut J, Manderson J, Oliver M, Palamara L, Gong D. 2010. Freshwater flow along the Hudson Shelf Valley: do fish in the Mid-Atlantic Bight really care? [abstract]. 2010 Ocean Sciences Meeting; 2010 Feb 22-26; Portland (OR); np.
- Lee MY. 2010. Bargaining power in permit markets: a fisheries application. [abstract]. AAEA, CAES & WAEA Joint Annual Meeting; 2010 July 25-27; Denver CO; np.
- Lee MY. 2010. Bargaining power in the market for input permits: the case of northeast US multispecies days-at-sea. [abstract]. IIFET; Economics of fish resources and aquatic ecosystems: balancing uses, balancing costs; 2010 July 13-16; Montpellier, France; np.
- Lee MY, Munroe TA, Shao KT. 2010. Evaluating the taxonomic status of tonguefishes tentatively identified as *Symphurus microrhynchus*: comparisons of morphological and molecular data between populations collected off Taiwan and Vietnam. [abstract]. Joint Meeting of Ichthyologists and Herpetologists; 2010 July 7-12; Providence, RI; np.
- Lee MY, Brinson A, Rountree B. 2010. Examining the profitability of community supported fisheries programs. [abstract]. Northeastern Agricultural and Resource Economics Association Meetings; 2010 June 13-15; Trump Plaza Hotel and Casino, Atlantic City, NJ; np.
- Legault C. 2010. Management strategy evaluation of a retrospective fix. [abstract]. In: Blackhart K, editor. Proceedings. 11th National Stock Assessment Workshop; Joint Session of the National Stock and Habitat Assessment Workshops; and 1st National Habitat Assessment Workshop. NOAA Tech Memo NMFS-F/SPO. -112; p 96.
- Li Y, Wikfors GH, Meseck SL, Rivara K, Dixon MS, Rose JM, Smith BC, Croxton AN, Alix J, Fuentes S. 2010. Quanitfying the ecological interactions of a commercial oyster nursery: observations from mesocosms. [abstract]. 30th Milford Aquaculture Seminar; 2010 Feb 8-10; Shelton, CT. J Shellfish Res. 29:554.
- Link JS, Gamble R, Overholtz WJ, Fogarty MJ, Sosebee K. 2010. What would the ocean look like without any dogfish? Multimodel inference from simulations of the Northeast U.S. large marine ecosystem. [abstract]. Presented at: American Society of Ichthyologists and

- Herpetologists, American Elasmobranch Society Feeding Symposium, Providence, RI; np.
- Link JS, Gamble RJ, Fulton EA. 2010. The utility of strategic outputs from a full system model: The ATLANTIS NEUS experience. [abstract]. Presented at: Ecosystems 2010: Global Progress on Ecosystem-Based Fisheries Management. 26th Lowell Wakefield Symposium; Anchorage, AK; 8-11 Nov 2010; p 34.
- Link JS, Gamble RJ, Overholtz WJ, Fogarty MJ. 2010. Multimodel inference in support of marine ecosystem-based fisheries management. [abstract]. Presented at: American Fisheries Society (AFS) 140th Annual Meeting; 12-16 Sep 2010; Pittsburgh (PA); np.
- Link JS, Lucey S, Melgey JH, Col LA, Nye JA. 2010. Examining cannablism in relation to recruitment of silver hake in the northwest Atlantic. [abstract]. Presented at: Hake 2010: International Symposium on the Biology, Harvesting, Management and Conservation of Hakes; Portland, ME; 11-12 May 2010; np.
- Link JS, Megrey BA, Miller TJ, Essington T, Perry RI, Bundy A, Moksness E, Drinkwater KF. 2010. Large-scale regional comparisons of marine biogeochemistry and ecosystem processes: application of production models as a tool to identify key factors within and between ocean basins. [abstract]. Presented at: IMBER IMBIZO II: Integrating biogeochemistry and ecosystems in a changing ocean Regional comparisons. 10-14 Oct 2010; Crete (Greece); np.
- Link JS, Smith BE, McElroy D, McBride RS, Hauser J, Sosebee K, O'Connell C. 2010. The trophic role of assorted skate and dogfish species in the Northwest Atlantic ecosystem. [poster]. Presented at: AES Feeding Symposium at the ASIH Meeting Providence RI 2010; np.
- Link JS, Tyrrell MC, Moustahfid H. 2010. The importance of including predation mortality in the evaluation and management of forage fishes. [abstract]. Presented at:1st World Seabird Conference -- Seabirds: Linking the Oceans; Victoria (Canada); 7-11 Sep 2010. In: Abstracts of Invited Presentations; p. 8.
- Liu H, Fogarty MJ. 2010. The effects of fishing effort and environmental variability on fish community dynamics on Georges Bank. [abstract]. Presented at: American Fisheries Society (AFS) 140th Annual Meeting; 12-16 Sep 2010; Pittsburgh (PA); np.
- Lucey SM, Fogarty MJ. 2010. Spatially explicit operational fisheries in New England. [abstract]. Presented at: Ecosystems 2010: Global Progress on Ecosystem-Based Fisheries Management. 26th Lowell Wakefield Symposium; Anchorage, AK; 8-11 Nov 2010; p 20.
- Lucey SM, Nye J. 2010. Shifting species assemblages in the Northeast US Continental Shelf Large marine Ecosystem. [abstract]. Presented at: Summer Meeting of the Southern New England Chapter of the American Fisheries Society; June 23, 2010; Kringston, RI; np.

- Lucey SM, Nye J. 2010. Shifting species assemblages in the Northeast US Continental Shelf Large marine Ecosystem. [abstract]. Presented at: American Fisheries Society (AFS) 140th Annual Meeting; 12-16 Sep 2010; Pittsburgh (PA); np.
- Mackenzie CL, Jr. 2010. Large declines in resource species in New England and New York since the mid 1980s. [abstract]. In: Blackhart K, editor. Proceedings. 11th National Stock Assessment Workshop; Joint Session of the National Stock and Habitat Assessment Workshops; and 1st National Habitat Assessment Workshop. NOAA Tech Memo NMFS-F/SPO. -112; p 135.
- Manderson JP, Kohut J, Palamara L, Grey S, Oliver M. 2010. Using statistical modeling and Ocean Observing Systems to identify fish habitat at broad scales: potential applications for spatial planning, estimation of natural mortality, and reducing fisheries bycatch. [abstract]. In: Blackhart K, editor. Proceedings. 11th National Stock Assessment Workshop; Joint Session of the National Stock and Habitat Assessment Workshops; and 1st National Habitat Assessment Workshop. NOAA Tech Memo NMFS-F/SPO. -112; p 110.
- McBride RS, Maki KL, Bakenhaster M. 2010. Philometrid parasites are present in wahoo, *Acanthocybium solandri*, ovaries but do not preclude spawning by the host. [abstract]. Presented at: Winter Meeting of the Southern New England Chapter of the American Fisheries Society; Groton, CT; 28 January 2010; np.
- McBride RS, Maki KL, Bakenhaster M. 2010. Philometrid parasites are present in wahoo, *Acanthocybium solandri*, ovaries but do not preclude spawning by the host. [abstract]. In: Wyanski DM, Brown-Peterson NJ, editors. 4th Workshop on Gonadal Histology of Fishes; El Puerto del Santa Maria, Cadiz (Spain); 2009 June 16-19; p 138-140.
- McBride RS, Snodgrass DJG, Adams DH, Rider SJ, Colvocoresses JA. 2010. A histology-based appraisal of gonad maturation in female dolphinfish collected offshore of Florida, USA. [abstract]. Presented at: American Fisheries Society (AFS) 140th Annual Meeting; 12-16 Sep 2010; Pittsburgh (PA); np.
- McBride RS, Sutherland SJ, Lombardi LA, Allman RJ. 2010. Measuring, minimizing, and mitigating ageing error for stock assessments. [abstract]. Presented at: Summer Meeting of the Southern New England Chapter of the American Fisheries Society; Kingston RI; 23 Jun 2010; np.
- McBride RS, Sutherland SJ, Lombardi LA, Allman RJ. 2010. Measuring, minimizing, and mitigating ageing error for stock assessments. [abstract]. Presented at: Uncertainty in Fisheries Science Symposium. Florida Chapter of the American Fisheries Society. 28th Annual Meeting; Ocala, FL; 16-18 Feb 2010; np.
- McBride RS, Wuenschel M, McElroy D, Rowinski Y, King J. 2010. Beyond 'Flatland': a multi-dimensional approach to classify female winter flounder (*Pseudopleuronectes americanus*) maturity and reproductive seasonality. [abstract]. In: Conference Steering Committee, ed. 12th Flatfish Biology Conference 2010 Program and Abstracts;

- December 1-2 2010; Water's Edge Resort and Spa, Westbrook, CT. NEFSC Ref Doc. 10-21; p 63.
- McBride RS, Wuenschel M, Nitschke P. 2010. Winter flounder maturation, between stocks and years, an AIC analysis of female maturity ogives based on gonad histology. [abstract]. In: Conference Steering Committee, ed. 12th Flatfish Biology Conference 2010 Program and Abstracts; December 1-2 2010; Water's Edge Resort and Spa, Westbrook, CT. NEFSC Ref Doc. 10-21; p 34.
- McDermott S, Wilbur P, Chiarella L, Brownell P, Link J, Friedland KD, Smith BE, Sheehan T. 2010. Science support needs for East Coast diadromous fish protection and restoration: addressing management priorities through science. [abstract]. In: Blackhart K, editor. Proceedings. 11th National Stock Assessment Workshop; Joint Session of the National Stock and Habitat Assessment Workshops; and 1st National Habitat Assessment Workshop. NOAA Tech Memo NMFS-F/SPO. 112; p 137.
- McElroy WD, Bizzarro J, and Kohler NE. 2010. A Review of Selected Methods of Studying Food Habits and Trophic Ecology with Particular Reference to Elasmobranchs. [abstract] Presented at: the 2010 American Elasmobranch Society, Providence, RI; np.
- McElroy D, Rowinski Y, Wuenschel M, McBride R. 2010. Application of the auto-diametric method of estimating fecundity to winter flounder, *Pseudopleuronectes americanus*. [abstract]. In: Conference Steering Committee, ed. 12th Flatfish Biology Conference 2010 Program and Abstracts; December 1-2 2010; Water's Edge Resort and Spa, Westbrook, CT. NEFSC Ref Doc. 10-21; p 48.
- Megrey BA, Link JS, Miller TJ, Essington T, Perry RI, Bundy A, Drinkwater KF, Moksness E. 2010. Using production models as a tool to support EBFM: a comparative analysis of indicators among eleven northern hemisphere ecosystem. [abstract]. Presented at: Ecosystems 2010: Global Progress on Ecosystem-Based Fisheries Management. 26th Lowell Wakefield Symposium; Anchorage, AK; 8-11 Nov 2010; p 40.
- Megrey BA, Link JS, Miller TJ, Essington T, Perry RI, Bundy A ,Drinkwater KF, Boldt J, Moksness E. 2010. CAMEO Surplus Production Modeling Workshop: Quantitative tools to compare sub-arctic marine ecosystems. In: Drinkwater K, McBride MM, Head E, Astthorsson Ó. Report of the ICES/ESSAS Workshop on Ecosystem Studies of Sub-Arctic Seas (ICESSAS); 30 Aug 1 Sep 2010; Reykjavik (Iceland); p 38.
- Megrey BA, Link JS, Miller TJ, Essington T, Perry RI, Bundy A, Drinkwater KF, Moksness E. 2010. Can production models be used as a tool to examine factors that influence productivity of marine systems? [abstract]. Presented at: PICES-2010: North Pacific Ecosystems Today, and Challenges in Understanding and Forecasting Change. Portland OR; 22-31 Oct 2010; p 206.
- Megrey BA, Link JS, Miller TJ, Essington T, Perry RI, Bundy A, Moksness E, Drinkwater KF. 2010. Using production models as a tool to examine factors that influence productivity of marine systems: A comparative analysis among 10 northern hemisphere ecosystems.

- [abstract]. Presented at: ICES Annual Science Conference; 20-24 Sep 2010; Nantes (France); p 334.
- Meseck SL, Dixon MS Smith BC, Li Y, Wikfors GH. 2010. Nutrient bioextraction from eutrophic, coastal waters- a role for stable isotopes?. [abstract]. The 7th International Conference on Applications of Stable Isotope Techniques to Ecological Studies; 2010 August 9-13; Fairbanks AK; np.
- Miller T. 2010. A hierarchical model to estimate relative catchability at size. [abstract]. In: Blackhart K, editor. Proceedings. 11th National Stock Assessment Workshop; Joint Session of the National Stock and Habitat Assessment Workshops; and 1st National Habitat Assessment Workshop. NOAA Tech Memo NMFS-F/SPO. -112; p 100.
- Munroe TA. 2010. Interfacing systematics and fisheries: A New Zealand example (Rhombosoleidae: *Peltorhamphus novaezeelandiae*). [abstract]. In: Conference Steering Committee, ed. 12th Flatfish Biology Conference 2010 Program and Abstracts; December 1-2 2010; Water's Edge Resort and Spa, Westbrook, CT. NEFSC Ref Doc. 10-21; p 22.
- Nye J, Link JS, Hare JA, Richardson DE. 2010. Climate-induced changes in distribution and spawning of Northeast US fish. [abstract]. Presented at: 34th Annual Larval Fish Conference, Santa Fe, NM. And: Ocean Sciences Meeting, Portland, OR; np.
- Nye JA, Bundy A, Shackell N, Friedland KD, Link JS. 2010. Poissons sans frontiers: comparing contiguous surveys for major ecological and commercial species in the Northwest Atlantic, with a focus on trends, synchronies and coherences. Ocean Sciences Meeting, Portland Oregon; np.
- Nye JA, Link JS, Lucey SM, Hare JA. 2010. Climate-induced changes in distribution of Northeast US fish and invertebrates: implications for management. [abstract]. Presented at: 2010 Ocean Sciences Meeting; Portland OR; 22-26 Feb 2010; np.
- Nye JA, Link JS, Richardson D, Hare JA. 2010. Climate-induced changes in distribution and spawning of Northeast US fish. [abstract]. Presented at: 34th Annual Larval Fish Conference; Santa Fe NM; 30 May 3 Jun 2010; np.
- Palamara L, Manderson J, Kohut J, Oliver M, Goff J, Gray S. 2010. Developing ecological indicators for fisheries management using IOOS defined habitat characteristics in the Mid-Atlantic Bight. [abstract]. 2010 Ocean Sciences Meeting; 2010 Feb 22-26; Portland (OR); np.
- Pinto da Silva P, Kitts A, Clay PM. 2010. Defining social and economic performance measures for catch share systems in the Northeast US. [abstract]. IIFET; Economics of fish resources and aquatic ecosystems: balancing uses, balancing costs; 2010 July 13-16; Montpellier, France; np.
- Renkawitz MD, Sheehan TF. 2010. Atlantic salmon diet in coastal waters: spatial and temporal forage patterns with inferences from alternative sampling platforms. [abstract]. Atlantic

- Salmon Forum; 2010 Jan 6-7; University of Maine, Wells Conference Center; Orono, ME; np.
- Richardson DE, Hare JA, Fogarty MJ, Link JS. 2010. The role of haddock egg predation in the collapse of an Atlantic herring population. [abstract]. Presented at: ICES Annual Science Conference; 20-24 Sep 2010; Nantes (France); p 123.
- Richardson DE, Hare JA, Walsh HJ. 2010. Incorporating egg predation by haddock into a population model for Atlantic herring. [abstract]. In: Blackhart K, editor. Proceedings. 11th National Stock Assessment Workshop; Joint Session of the National Stock and Habitat Assessment Workshops; and 1st National Habitat Assessment Workshop. NOAA Tech Memo NMFS-F/SPO. -112; p 98.
- Roman S, Cadrin SX. 2010. Review of fishermen collected data to investigate patterns in hake catches on Georges Bank. [abstract]. Hake 2010 International Symposium on the biology, harvesting, management, and conservation of hakes; 2010 May 11-12; Portland Regency Hotel, Portland, ME. .
- Roman S, Cadrin SX, Jacobson N. 2010. Investigation of an "Observer Effect" on data collection by the SMAST Study Fleet. [abstract]. Fishery Dependent Information Conference; 2010 Aug 23-26; Galway, Ireland; np.
- Rose JM, Tedesco MA, Li Y, O'Brien-Clayton K, Olsen C, Lyman M, Wikfors GH. 2010. Spatial and temporal trends in phytoplankton community composition within a large urban estuary. [abstract]. 2010 Ocean Sciences Meeting; 2010 Feb 22-26; Portland [OR]; np
- Rose JM, Tedesko M, Wikfors GH, Yarish C. 2010. Overview of the international workshop on bioextractive technologies for nutrient remediation. [abstract]. 30th Milford Aquaculture Seminar; 2010 Feb 8-10; Shelton, CT. J Shellfish Res. 29(2); pnk.
- Rountree B. 2010. The Northeast US tilefish fishery: recent lessons of catch shares. [abstract]. IIFET; Economics of fish resources and aquatic ecosystems: balancing uses, balancing costs; 2010 July 13-16; Montpellier, France; np.
- Rowinski Y, McBride RS, Wuenschel M, McElroy D. 2010. A histological atlas of female winter flounder (*Pseudopleuronectes americanus*) oogenesis. [abstract]. In: Conference Steering Committee, ed. 12th Flatfish Biology Conference 2010 Program and Abstracts; December 1-2 2010; Water's Edge Resort and Spa, Westbrook, CT. NEFSC Ref Doc. 10-21; p 66.
- Rowinski Y, McElroy D, Wuenschel M, McBride RS. 2010. Examination of monthly oocyte development and spawning patterns in Gulf of Maine winter flounder, *Pseudopleuronectes americanus*, by macroscopic and histological methodologies. [abstract]. In: Conference Steering Committee, ed. 12th Flatfish Biology Conference 2010 Program and Abstracts; December 1-2 2010; Water's Edge Resort and Spa, Westbrook, CT. NEFSC Ref Doc. 10-21; p 35.

- Shackell N, Bundy A, Nye J, Link JS. 2010. Coherence of key indicators in contiguous large-scale ecosystems in the Northwest Atlantic in response to climate and fishing. [abstract]. Presented at: 2010 Ocean Sciences Meeting; Portland OR; 22-26 Feb 2010; np.
- Shepherd G. 2010. Evaluation of striped bass stock status- 1990 to present. [abstract]. 66th Annual Northeast Fish and Wildlife Conference; 2010 April 25-27; Newton, MA; np.
- Sherman K. 2010. Keynote presentation on The Application of Satellite Remote Sensing for Assessing Productivity and Fisheries Yields of the World's Large Marine Ecosystems (LMEs). Remote Sensing and Fisheries International Symposium (SAFARI), Kochi, India, February 12-19, 2010; pnk.
- Sherman K. 2010. Changing states of North Atlantic Large Marine Ecosystems. Speech for: ICES Annual Science Meeting; Nantes, France; 20-24 Sep 2010; pnk.
- Shield G, Martin M. 2010. Greater shearwaters in the Gulf of Maine and Georges Bank (northwest Atlantic): can we identify seabird foraging hotspots using at sea and bycatch data? [abstract]. 1st World Seabird Conference; 2010 September 7-11; Victoria, British Columbia; pnk.
- Smith BC, Persson A, Selander E, Wikfors GH, Alix J. 2010. Toxin changes in Alexandrium Fundyense after passage through the digestive system of the eastern oyster *crassostrea virginica*. [abstract]. 30th Milford Aquaculture Seminar; 2010 Feb 8-10; Shelton, CT. J Shellfish Res. 29(2); pnk.
- Smith BE, Collie JS. 2010. The effects of bottom fishing on the benthic macrofauna and demersal fish feeding habits of northern Georges Bank. [abstract]. In: Blackhart K, editor. Proceedings. 11th National Stock Assessment Workshop; Joint Session of the National Stock and Habitat Assessment Workshops; and 1st National Habitat Assessment Workshop. NOAA Tech Memo NMFS-F/SPO. -112; p 141.
- Smith BE, Collie JS. 2010. The effects of bottom fishing on the benthic macrofauna and demersal fish feeding habits of northern Georges Bank. [abstract]. Presented at: NMFS NHAW/NSAW Meeting, St. Petersburg, FL. May 17-20, 2010; pnk.
- Smith BE, Collie JS, Lengyel NL. 2010. The effects of the invasive ascidian Didemnum vexillum on the benthic macrofauna and feeding habits of winter flounder (Pseudopleuronectes americanus) on Northern Georges Bank. [abstract]. In: Conference Steering Committee, ed. 12th Flatfish Biology Conference 2010 Program and Abstracts; December 1-2 2010; Water's Edge Resort and Spa, Westbrook, CT. NEFSC Ref Doc. 10-21; p 32.
- Smith BE, Collie JS, Lengyel NL. 2010. The effects of the invasive ascidian Didemnum vexillum on northern Georges Bank: from benthic macrofauna to demersal fish diet. [abstract]. Presented at: American Fisheries Society (AFS) 140th Annual Meeting; 12-16 Sep 2010; Pittsburgh (PA); np.

- Smith BE, Dayton J, McElroy D, Towle E, McBride RS. 2010. The seasonal and spatial variability of flatfish feeding habits on the northeast US continental shelf: preliminary insights from cooperative research. [abstract]. In: Conference Steering Committee, ed. 12th Flatfish Biology Conference 2010 Program and Abstracts; December 1-2 2010; Water's Edge Resort and Spa, Westbrook, CT. NEFSC Ref Doc. 10-21; p 68.
- Steinback S, Thunberg E. 2010. An assessment of two approaches for measuring commercial fishery dependency. [abstract]. IIFET; Economics of fish resources and aquatic ecosystems: balancing uses, balancing costs; 2010 July 13-16; Montpellier, France; pnk.
- Stiles S, Choromanski J, Jeffress D. 2010. Recent progress in selective breeding of the bay scallop, Argopecten irradians. [abstract]. Presented at: 30th Milford Aquaculture Seminar; Shelton CT; 8-10 Feb 2010. J Shellfish Res. 29(2):562.
- Stiles S, Choromanski J, Jeffress D, Amarante M. 2010. An update on selective breeding of the bay scallop, *Argopecten irradians*. [abstract]. Presented at: National Technical Association Annual Conference; np.
- Stiles S, Choromanski J, Jeffress D, Kerk N, Caccone G. 2010. Mitochondrial DNA, phenotypic and morphological markers for bay scallop stock identification and diversity in enhancement and restoration studies. [poster]. Presented at: Plant and Animal Genomes Conference. January, 2010. San Diego, California- Poster presentation. J. Shellfish. 29(2):561-562.
- Stiles S, Choromanski J, Jeffress D, Kerk N, Caccone G. 2010. DNA-based research with bay scallops: a collaboration between NOAA and Yale University with an outreach component. [abstract]. Presented at: 30th Milford Aquaculture Seminar; Shelton CT; 8-10 Feb 2010. J Shellfish Res. 29(2):561-562.
- Stiles S, Choromanski J, Jeffress D, Kerk N, Caccone G, Benavides E. 2010. Studies on mitochondrial DNA, phenotypic and morphological markers for bay scallop stock identification and diversity in enhancement and restoration efforts. [abstract]. Presented at: 82nd Annual National Technical Association Conference: Diversifying the Labor Force to Innovate 2020 Technical Solutions; Washington DC; 8-10 Sep 2010; np.
- Stockwell J, Baukus A, McCarron P, Pelletier E, Libby D, Wilson C, Deroba JJ, Jech M. 2010. Collaborative research to assess the inshore component of the Gulf of Maine-Georges Bank Atlantic herring complex. [abstract]. Presented at: Northeast Consortium; Durham, NH; np.
- Sutton T, Cook, A, Galbraith J, Vecchione M. 2010. Deep-sea fishes of the Mid-Atlantic Ridge: results of the 2009 Henry Bigelow expedition. In: 12th Deep-Sea Biology Symposium Program and Book of Abstracts; Reykjavik, Iceland; 7-11 Jun 10; p 167.
- Thunberg E. 2010. The institutional setting for social science information and data collection in federal fishery management. [abstract]. 2010 Northeast Regional Social Science Symposium; 2010 April 12; University of NH, Durham; np.

- Thunberg E, Di J. 2010. Measuring fishing vessel safety and risk taking. [abstract]. IIFET; Economics of fish resources and aquatic ecosystems: balancing uses, balancing costs; Abstract book 29 06. 2010 July 13-16; Montpellier, France; p. 97
- Traver M, Sosebee K, Alade L. 2010. What the hake? Basic dynamics of offshore hake, *Merluccius albidus*. [abstract]. Hake 2010: International symposium on the biology, harvesting, management and conservation of hakes; 2010 May 11-12; Portland Regency Hotel; Portland [ME]; np.
- Tulu A, Waguespack Y, Chambers RC, Jagus R. 2010. Evaluation of the separate and joint effects of polycyclic aromatic hydrocarbons (PAH) and polychlorinated biphenyls (PCB) contaminants on Microgradus tomcod Ovarian Cytochrome 19A (CYP19A) gene. [abstract]. Presented at: American Fisheries Society (AFS) 140th Annual Meeting; 12-16 Sep 2010; Pittsburgh (PA); np.
- Valentine PC, Gallea L, Guida VG, Blackwood DS. 2010. Persistence of colonies of the tunicate *Didemnum vexillum* over a five-year period (2005-2009) on gravel habitats of Georges Bank, New England. [abstract]. International Invasive Sea Squirt Conference III; 2010 April 26-28; Woods Hole, MA; np.
- Walden J, Tomberlin D. 2010. Estimating fishing vessel capacity: a comparison of nonparametric frontier approaches. [abstract]. North American Productivity Workshop VI; Book of Abstracts. 2010 June 2-5; Rice University, Houston, TX; p. 104.
- Walden JB, Kirkley JE, Logan P. 2010. Productivity Change Under a Cap and Trade System. Presented at: International Institute of Fisheries Economics and Trade biennial meeting. Montpelier, France. July 2010.
- Walden JB, Kirkley JE . 2010. Productivity Change with ITQs: Do the predictions come true? [abstract]. Presented at: NMFS Social Sciences Meeting, Orlando, FL. Sept. 2010.
- Walsh HJ, Richardson DE, Hare JA, Marancik KE. 2010. Expansion of Atlantic croaker (*Micropogonias undulates*) larval habitat on the northeast US continental shelf. [abstract]. In: Blackhart K, editor. Proceedings. 11th National Stock Assessment Workshop; Joint Session of the National Stock and Habitat Assessment Workshops; and 1st National Habitat Assessment Workshop. NOAA Tech Memo NMFS-F/SPO. 112; p 111.
- Walsh HJ, Richardson DE, Hare JA, Marancik KE. 2010. Expansion of Atlantic croaker (*Micropogonias undulates*) larval habitat on the northeast US continental shelf. [abstract]. Presented at: Summer Meeting of the Southern New England Chapter of the American Fisheries Society; Kingston RI; 23 Jun 2010; np.
- Westwood AD, Rothschild B, Cadrin SX, Azadivar F, Jiao Y, Georgianna D, Zhang Y, Wood A, Keiley E, O'Keefe C, Kerr L. 2010. A systems approach to informing fishery science and management in New England, USA. [abstract]. 7th bi-annual European Systems Engineering Conference; 2010 May 23-26; Stockholm, Sweden; pnk.

- Widman JC Jr, Veilleux DJ, Dixon M. 2010. Handling strategies for bay scallops, *Argopecten irradians irradians*, grown in semi-static cultures. [abstract]. 30th Milford Aquaculture Seminar; 2010 Feb 8-10. Shelton, CT. J Shellfish Res. 29(2); pnk.
- Wigley S, Rago P. 2010. An integrated approach for allocating observer coverage. [abstract]. Presented at: Fishery Dependent Information Conference; 2010 Aug 23- 26, 2010; np.
- Wikfors GH, Krome CA, Meseck SL. 2010. Homeostatic capabilities of oyster hemocytes exposed to acidic conditions in vivo and in vitro. [abstract]. 30th Milford Aquaculture Seminar; 2010 Feb 8-10.; Shelton [CT]. J Shellfish Res. 29(2); pnk.
- Wikfors GH, Rivara K, Dixon MS, Li Y, Meseck SL, Rose JM, Croxton AN, Milke L, Smith BC. 2010. Quantifying ecosystem interactions of molluscan aquaculture: The challenge of linking glass-fiber filters to global finance. [abstract]. 30th Milford Aquaculture Seminar; 2010 Feb 8-10; Shelton [CT]. J Shellfish Res. 29(2); pnk.
- Wuenschel M, McBride R, Thornton GM, Nitsschke P. 2010. The reproductive biology of female winter flounder (*Pseudopleuronectes americanus*): validating classification schemes to assess the importance of "skip spawning." [abstract]. In: Wyanski DM, Brown-Peterson NJ, editors. 4th Workshop on Gonadal Histology of Fishes; El Puerto del Santa Maria, Cadiz (Spain); 2009 June 16-19; p 103-107.
- Wuenschel M, McElroy D, McBride RS. 2010. Seasonal patterns in body condition and proximate composition for three flatfishes: winter, yellowtail and summer flounder. [abstract]. In: Conference Steering Committee, ed. 12th Flatfish Biology Conference 2010 Program and Abstracts; December 1-2 2010; Water's Edge Resort and Spa, Westbrook, CT. NEFSC Ref Doc. 10-21; p 14.
- Wuenschel MJ, Sutherland SJ, Foley A, McBride RS, Brooks E, Friedland KD. 2010. Evaluating environmental influence on growth, maturity, and subsequent recruitment dynamics in Georges Bank haddock (*Melanogrammus aegelfinus*). [abstract]. Presented at: American Fisheries Society (AFS) 140th Annual Meeting; 12-16 Sep 2010; Pittsburgh (PA); np.

## **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 files on zip disks or CDs, 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 both the PDF (print) and Web versions of the CRD are ready, the Editorial Office will contact you to review both versions 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.