

AFS SNEC Member Publications in 2020

Legare, B.J., **O.C. Nichols**, and M. Borrelli. 2020. Persistence of hydraulic dredge tracks following surf clam harvesting in shallow water. *Journal of Shellfish Research* 39(2): 331-336. <https://doi.org/10.2983/035.039.0214>

Legare, B.J., **O.C. Nichols**, L. Sette, A. Mittermayr, and M. Borrelli. 2020. Relationships between species communities as determined by analysis of data from multiple surveys of Pleasant Bay, Cape Cod, Massachusetts. *Northeastern Naturalist* 27(Special Issue 10): 114-131. <https://doi.org/10.1656/045.027.s1005>

Nichols, O.C., B.J. Legare, T. Famulare, E. Sgarlat, and T. Lucas. 2020. Seasonal occurrence and relative abundance of fishes and macroinvertebrates in Pleasant Bay, Cape Cod, Massachusetts. *Northeastern Naturalist* 27(Special Issue 10): 76-97. <https://doi.org/10.1656/045.027.s1004>

Jacobson, S.K., J. Seavey, J. Goodman, **O.C. Nichols**, L.C. Williams, M. Márquez-García, and O. Barbosa. 2020. Integrating entrepreneurship and art to improve creative problem-solving in fisheries education. *Fisheries* 45(2): 84-89. <https://doi.org/10.1002/fsh.10351>

Slesinger, E, **JA Langan**, BK Sullivan, DG Borkman, & TJ Smayda. 2020. Multi-decadal (1972-2019) *Mnemiopsis leidyi* (Ctenophora) abundance patterns in Narragansett Bay, Rhode Island USA. *Journal of Plankton Research* 42(5): 539–552. <https://doi.org/10.1093/plankt/fbaa035>

Swezey, BB, **CW Capizzano**, **JA Langan**, HP Benoît, EW Hutchins II, JW Mandelman, WY Koh, MJ Dean, BN Anderson, & JA Sulikowski. 2020. Estimating the discard mortality of Atlantic cod *Gadus morhua* in the southern Gulf of Maine commercial lobster fishery. *North American Journal of Fisheries Management* 40(5): 1252–1262. <https://doi.org/10.1002/nafm.10493>

Langan, JA, **MC McManus**, DR Zemeckis, & **JS Collie**. 2020. Abundance and distribution of Atlantic cod (*Gadus morhua*) in a warming southern New England. *Fishery Bulletin* 118: 145–156. 10.7755/FB.118.2.4

Friedland, KF, **JA Langan**, SI Large, RL Selden, JS Link, RA Watson, & **JS Collie**. 2020. Changes in higher trophic level productivity, diversity and niche space in a rapidly warming continental shelf ecosystem. *Science of the Total Environment* 704: doi:10.1016/j.scitotenv.2019.135270

Haro, A., Miehl, S., Johnson, N.S. and Wagner, C.M., 2020. Evaluation of visible light as a cue for guiding downstream migrant juvenile sea lamprey. *Transactions of the American Fisheries Society*, 149(5), pp.635-647. <https://doi.org/10.1002/tafs.10261>

Pitchford, Steven C., Brian E. Smith, and Richard S. **McBride**. 2020. A real-time PCR assay to detect predation by spiny dogfish on Atlantic cod in the western North Atlantic Ocean. *Ecology and Evolution*. 10(20): 11022-11030. DOI: [10.1002/ECE3.6694](https://doi.org/10.1002/ECE3.6694)

Basilone G, R Ferreri, M Barra, Angelo Bonanno M Pulizzi, A Gargano, I Fontana, G Giacalone, P Rumolo, S Mazzola, S Genovese, **R McBride**, S Aronica. 2020. Spawning ecology of the European anchovy (*Engraulis encrasicolus*) in the Strait of Sicily: linking variations of zooplankton prey, fish density, growth, and reproduction in an upwelling system. *Progress in Oceanography*. 184: 102330. DOI: [10.1016/j.pocean.2020.102330](https://doi.org/10.1016/j.pocean.2020.102330)

International Council for the Exploration of the Sea (ICES). 2020. Workshop on Stock Identification of North Sea Cod (WKNSCodID) (Authors: Steven **Cadrin**, Neil Campbell, Massimiliano Cardinale, José De Oliveira, Helen Dobby, Alison Frey, Chris Griffiths, Samuel Hardman, Jakob Hemmer Hansen, Helen Holah, Karin Hüsey, Alexander Kempf, Adrienne Kovach, Gwladys Lambert, Sara Maggini, **Richard McBride**, Tanja Miethe, Coby Needle, Alessandro Orio, Yves Reecht, Thomas Régnier, David Righton, Jon Egil Skjæraasen, Nicola Walker, Peter Wright). *ICES Scientific Reports*. 2:89. 82 pp. <http://doi.org/10.17895/ices.pub.7499>

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Hansell, A.C., Curtis, T.H., Carlson, J., Cortés, E., **Fay, G. and Cadrin, S.X.,** Stock Assessment of the Lemon Shark off the Southeast United States. *North American Journal of Fisheries Management*. [Volume 41, Issue 1](#) p. 35-48

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Bank CM, K Oliveira, SJ Sutherland, MP Armstrong, Landa J, SX Cadrin. 2020. Age validation of goosefish (*Lophius americanus*) the northeastern United States. *Fishery Bulletin* 118: 8-20. 10.7755/FB.118.1.2

Berg PR, PE Jorde, KA Glover, G Dahle, JB Taggart, K Korsbrekke, GE Dingsør, JE Skjæraasen, PJ Wright, **SX Cadrin,** H Knutsen & J-I Westgaard. 2020. Genetic structuring in Atlantic haddock contrasts with current management regimes. *ICES Journal of Marine Science* doi:10.1093/icesjms/fsaa204

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Benjamin I. Gahagan and Michael M. Bailey, Surgical Implantation of Acoustic Tags in American Shad to Resolve Riverine and Marine Restoration Challenges. *Marine and Coastal Fisheries* 12 (5): 272-289 <https://doi.org/10.1002/mcf2.10108>

Nathalie M. LeBlanc, **Benjamin I. Gahagan**, Samuel N. Andrews, Trevor S. Avery, Gregory N. Puncher, Benjamin J. Reading, Colin F. Buhariwalla, R. Allen Curry, Andrew R. Whiteley, Scott A. Pavey. Genomic population structure of Striped Bass (*Morone saxatilis*) from the Gulf of St. Lawrence to Cape Fear River. *Evol Appl.* 2020; 13: 1468– 1486. <https://doi.org/10.1111/eva.12990>

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Cebrian, J., Liu, H., Christman, M., Hollweg, T., French-McCay, D., Balouskus, R., **McManus, C.**, Benson, K., Ballesterro, H., White, J., and Friedman, S. 2020. Standardizing estimates of biomass at recruitment and productivity for fin- and shellfish in coastal habitats. *Estuaries and Coasts* 43: 1764-1802. <https://doi.org/10.1007/s12237-019-00691-2>