

DAVID H. SECOR

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PROFESSIONAL PREPARATION

Macalester College, B.A., Biology, 1983

University of South Carolina, M.S., Biology, 1985

University of South Carolina, Ph.D., Biology, 1990

APPOINTMENTS

Regents Professor, Chesapeake Biological Laboratory, Univ. of Maryland Center for Environmental Science, 2010-present

Professor, Chesapeake Biological Laboratory, 2005-present

Associate Professor, Chesapeake Biological Laboratory, 2000-2005

Assistant Professor, Chesapeake Biological Laboratory, 1994-2000

Assistant Research Scientist, Chesapeake Biological Laboratory, 1991-1994

Japanese Ministry of Education Research Fellow, Kagoshima University, 1986-1987

PUBLICATIONS

- All papers available at <http://fishconnectivity.cbl.umces.edu/citations>
- Kerr, L.A., S.X. Cadrin, D.H. Secor, and N.G. Taylor. In Press. Modeling the implications of movement and life history uncertainty of Atlantic bluefin tuna on the mixed stock composition of the resource. *Canadian Journal of Fisheries and Aquatic Sciences*.
- Bailey, H. and D.H. Secor. 2016. Coastal evacuations by fish during extreme weather events. *Scientific Reports*. 6:30280 | DOI: 10.1038/srep30280
- Hidalgo, M., D.H. Secor, and H.I. Browman. 2016. Observing and managing seascapes: linking synoptic oceanography, ecological processes, and geospatial modeling. *ICES Journal of Marine Science*
- Siskey, M.R., W.J. Wilberg, R.J. Allman, B.K. Barnett, and D.H. Secor. 2016. Forty years of fishing: Changes in age structure and stock mixing in Northwestern Atlantic bluefin tuna (*Thunnus thynnus*) associated with size-selective and long-term exploitation. *ICES Journal of Marine Science*.
- Secor, D.H. 2015. *Migration Ecology of Marine Fishes*. The Johns Hopkins University Press. 304 p. <https://jhupbooks.press.jhu.edu/content/migration-ecology-marine-fishes>
- Secor, D.H. 2015. American Eel: When Does Diversity Matter? *Fisheries* 40:462-463.
- Secor, D.H., Gahagan, B.I., Siskey, M., Wingate R.A., and J.R. Rooker. 2015. Depressed resilience of bluefin tuna in the Western Atlantic and age truncation. *Cons. Biol.* 29 (2):400-408.
- Kraus, R.T., D.H. Secor, and R.L. Wingate. 2015. Testing the thermal-niche oxygen-squeeze hypothesis for estuarine striped bass. *Environmental Biology of Fishes* 98: 2083-2092
- Gahagan, B.I., D.A. Fox, and D.H. Secor. 2015. Partial migration of striped bass: Revisiting the contingent hypothesis. *Marine Ecology Progress Series* 525: 185-197
- Secor, D.H. 2014. The Unit Stock Concept: Bounded Fish and Fisheries. *In* S. Cadrin, L. Kerr, and S.Mariani (ed.s) *Stock Identification Methods*. Elsevier Press.

- Niklitschek, E.J., D.H. Secor, P. Toledo, X. Valenzuela, A. Zuleta, L. Cubillos. 2014. Nursery systems for Western Patagonian ground fish stocks: large inner sea or narrow continental shelf? ICES J Mar. Sci. 71(2):375-390.
- Woodland, R.J. and D.H. Secor. 2013. Benthic-pelagic coupling in a temperate inner continental shelf fish assemblage. Limnology and Oceanography 58(3): 966-976.
- Woodland, R.H., D.H. Secor, M.C. Fabrizio, and M.J. Wilberg 2012. Comparing the nursery role of inner continental shelf and estuarine habitats for temperate marine fishes. Estuarine, Coastal and Shelf Science 99: 61-73.
- Kerr, L.A., S.X. Cadrin, and D.H. Secor. 2010. Simulation modeling as a tool for examining the consequences of spatial structure and connectivity to local and regional population dynamics. ICES J. Mar. Sci.67: 1631-1639.

SYNERGISTIC ACTIVITIES

Ecosystem-based Fisheries Management

Provide advice to efforts by Chesapeake Bay Program and Mid Atlantic Fishery Management Council to bring ecosystems considerations into fisheries management. Relevant committees include Chesapeake Bay Program Scientific and Technical Committee – liaison to the Fisheries Steering Committee and Goal Implementation Team (2005-2013); Ecosystem and sturgeon working groups of the Mid-Atlantic Fisheries Management Council (2009-present)

Climate Adaptation

Compiled and provided long-term climate record for state and regional efforts to better understand climate change; led synthesis activities on the potential effects of climate change to Chesapeake Bay living resources. Committees include Chesapeake Bay Program's Working Group on climate change (2008-2010) and Maryland Governor's Climate Committee, Working Group for Climate Change and Adaptation (2007-2010).

Fisheries Management

Assessment advice and review for Atlantic bluefin tuna (US Scientific Advisory Committee, and occasional science delegate to the International Committee for the Conservation of Atlantic Tunas, 2002-present); Atlantic sturgeon (Technical Committee, Atlantic States Marine Fisheries Commission, 1996-present); and Mid Atlantic Fishery Council Management Council (Statistical and Scientific Committee, 2009-present; Atlantic mackerel lead, 2015-present).

International Council for the Exploration of the Sea

Editor for the ICES Journal of Marine Science (2012-present). Serve on the Publication Committee (2015-) and working groups related to Atlantic eels (1999-present) and stock structure (2004-present). Keynote speaker at the 2015 ICES Annual Science Conference.

COLLABORATORS AND OTHER AFFILIATIONS

Dr. Martin Castonguay, DFO; Dr. Alex Hanke DFO; Dr. Steve Cadrin, Univ. Mass, Dartmouth; Dr. Greg Garman, Univ. Virginia Commonwealth; Dr. Dewayne Fox, DE State Univ; Dr. Lisa Kerr, Gulf of Maine Research Institute; Dr. Richard Kraus, USGS, Sandusky; Dr. Edwin Niklitschek, Univ. de Lagos, Puerto Montt, Chile; Dr. Jay Rooker, Texas A&M University, Galveston.