BIOGRAPHICAL SKETCH – David H. Secor

University of Maryland Center for Environmental Science
Chesapeake Biological Laboratory
P.O. Box 38
Solomons, MD 20688

Tel: (410) 326-7229
FAX (410) 326-7302
secor@cbl.umces.edu

Professional Preparation:

Macalester College, Biology and Environmental Studies B.A. 1983
University of South Carolina, Biology, M.S. 1985, Biology Ph.D.1990

Positions Held:

Professor, Chesapeake Biological Laboratory, Univ. of Maryland Center for Environmental Science, 2005-
Associate Professor, Chesapeake Biological Laboratory, 2000-2005
Assistant Professor, Chesapeake Biological Laboratory, 1994-2000
Assistant Research Scientist, Chesapeake Biological Laboratory, 1991-1994

Publications Last Three Years:

Kerr, L.A., S.X. Cadrin, and D.H. Secor. In Press. The role of spatial dynamics in the stability, resilience, and productivity of fish populations: An evaluation based on white perch in the Chesapeake Bay. Ecological Applications

Elsdon, T.S., and 8 others. 2008. Otolith chemistry to describe movements and life-history parameters of fishes: hypotheses, assumptions, limitations and inferences using five methods. Oceanography and Marine Biology: An Annual Review 46: 207-330.

Puckett, B.P., S-J. Ju, and D.H. Secor. 2008. Validation and application of lipofuscin-based age determination for Chesapeake Bay blue crabs. Trans. Am. Fish. Soc. 137: 1637-1649.

Rooker, J.R., D.H. Secor, G.D. DeMetrio, R. Schloesser, B.A. Block, and J.D. Neilson. 2008. Natal homing and connectivity in Atl.bluefin tuna populations. Science 322: 742-744.

Secor, D.H. 2008. Influence of Skipped Spawning and Mis-specified Reproductive Schedules on Biological Reference Points in Sustainable Fisheries Trans. Am. Fish. Soc. 137: 782-789.

Wingate, R.L. and D.H. Secor. 2008. The effects of winter temperature and flow on a summer-fall nursery fish assemblage in the Chesapeake Bay, Maryland. Trans. Am. Fish. Soc. 137: 1147-1156.

Callihan, JL LT Takata, RJ Woodland, and DH Secor. 2008. Cohort splitting in bluefish, *Pomatomus saltatrix*, in the U.S. Mid-Atlantic Bight. Fish. Oceanography 17: 191-205.

Kerr, L.A., R.T. Kraus, and D.H. Secor. 2007. Stable isotope ($\delta^{13}C$ and $\delta^{18}O$) composition of otoliths as a proxy for environmental salinity experienced by an estuarine fish. Mar. Ecol. Progress Series 348: 245-253.

Rooker, JR, and 9 others. 2007. Life history and stock structure of Atlantic bluefin tuna (*Thunnus thynnus*). Reviews in Fisheries Science 15:265-310.

Secor, D.H. 2007. The year-class phenomenon and the storage effect in marine fishes. J. Sea Res. 57: 91-103.

Secor, D.H. and P.M. Piccoli. 2007. Determination of frequency of anadromous migrations by Chesapeake Bay striped bass based upon otolith microchemical analysis. Fisheries Bulletin 105: 62-73.
Wingate, R.L. and D.H. Secor. 2007. Intercept telemetry of the resident contingent of Hudson River striped bass: migration and homing patterns. Trans. Am. Fish. Soc. 136: 95–104
Woodland, R. and D.H. Secor. 2007. Year-class strength and recovery of endangered shortnose sturgeon in the Hudson River, NY. Trans. Am. Fish. Soc. 136:72–81

Five Other Relevant Publications:

Secor, D.H. and H. Austin. 2006. Element 8: Externalities, p. 269-306, In Fisheries Ecosystem Planning for Chesapeake Bay. American Fisheries Society, Bathesda.
Kraus, R.T. and Secor, D.H. 2005. A test of the nursery-role hypothesis. Marine Ecology Progress Series. 291: 301-305.
Secor, D.H. and J.R. Rooker. 2005. Connectivity in the life histories of fishes that use estuaries.Introduction to series of papers. Estuarine, Coastal, and Shelf Science 64: 1-4.
Secor, D.H. 2004. Fish migration and the unit stock: three formative debates, p. 17-44. In Steven X. Cadrin, Kevin D. Friedland, John R. Waldman (ed.s). Stock Identification Methods. Elsevier Inc., Burlington.
Secor, D. H. 1999. Specifying divergent migrations in the concept of stock: the contingent hypothesis. Fish. Res. 43:13-34.

Synergistic Activities:

Review Panel, University of Tokyo Ocean Research Institute, 2007-2008.
ICES Stock Identification Work Group, 2004-; ICES Eel Work Group, 1999-
ICES Workshop on Life Cycle Diversity, Nantes, France, 2007.
Bluefin Tuna Working Group of U.S. ICCAT 2001- (Chair, 2003-2006)
U.S. Delegate, ICCAT Mtg on Bluefin Tuna Mixing, 2004, 2006.
Fisheries Steering Committee, Chesapeake Bay Program, 2006-
Chair, Coastal Ecosystem Group, MD Governor's Comm. on Climate Change 2007
ASMFC Atlantic Sturgeon Technical Committee, 1996- (Chair 2004-2007).
Chair, ASMFC Working Group to Assess Coastal Bycatch of Atlantic Sturgeon, 2007.
Chair, ASMFC American Eel Stock Assessment Review Panel, 2006.

Collaborators and Other Affiliations:

Collaborators: J. Rooker, A. Place, B. Block, J. Neilson, S. Campana, P. Petigas, S. Cadrin

Graduate and Postdoctoral Advisors: J.M. Dean, Baruch Institute, University of South Carolina (Ph.D.); E.D. Houde, Chesapeake Biological Laboratory (Postdoctoral work).

Thesis Advisor or Postgraduate-scholar Sponsor
Jill Stevenson, M.S., Erik Zlokovitz, M.S., Taro Ohta, M.S., Narisato Hirai, Ph.D., Jay Rooker, PostDoc, Wendy Morrison, MS, Joseph Steinbacher, MS, Edwin Niklitschek, Ph.D, Richard Kraus, Ph.D., Robert Murphy M.S., Lynn Takata M.S., Jody Callihan M.S., Brandon Puckett, M.S., Lisa Kerr, PhD. Current Students: Ryan Woodland, PhD, Deanna McQuarrie, MS, Kari Fenske, M.S.