

Curriculum Vita

JEREMY S COLLIE

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Education:

B.Sc. 1980. Biology, University of York, England
Ph.D. 1985. Biological Oceanography, Massachusetts Institute of Technology/Woods Hole
Oceanographic Institution Joint Program in Oceanography

Appointments:

2001-present Professor of Oceanography, University of Rhode Island
1993-2000 Associate Professor of Oceanography, University of Rhode Island
1988-1992 Assistant Professor of Fisheries, University of Alaska Fairbanks
1985-1987 Research Associate, Animal Resource Ecology,
University of British Columbia, Vancouver, BC Canada

Research Interests:

Quantitative ecology with emphasis on population dynamics and production of marine animals;
fish population dynamics and management; fish feeding and prey selection; predator-prey
interactions; recruitment of marine fish; benthic habitat studies.

Recent Publications (last 5 years)

Malek, A.J., **J.S. Collie**, and J. Gartland. 2014. Fine-scale spatial patterns in the demersal fish and invertebrate community in a northwest Atlantic ecosystem. *Estuarine, Coastal and Shelf Science* 147:1-10.

Bell, R.J., M.J. Fogarty, and **J.S. Collie**. 2014. Stability in marine fish communities. *Marine Ecology Progress Series* 504: 221-239.

Collie, J.S., M.J. Rochet, and R.J. Bell. 2013. Rebuilding fish communities: the ghost of fisheries past and the virtue of patience. *Ecological Applications* 23: 374-391.

Curti, K.L., **J.S. Collie**, C. Legault, and J.S. Link. 2013. Evaluating the performance of a multispecies statistical catch-at-age model. *Can. J. Fish. Aquat. Sci.* 70(3): 470-484.

Rochet, M.J., **J.S. Collie**, and V.M. Trenkel. 2013. How do fishing and environmental effects propagate among and within functional groups? *Bulletin of Marine Science* 89:285-315.

Collie, J.S., B. Craig, W.L. Adamowicz, M.W. Beck, T.E. Essington, D. Fluharty, J. Rice, and J.N. Sanchirico. 2013. Marine spatial planning in practice. *Estuarine, Coastal, and Shelf Science* 117:1-11. DOI: 10.1016/j.ecss.2012.11.010.

Collie, J.S., C. Minto, B. Worm, and R. Bell. 2013. Prerecruit predation can delay rebuilding of depleted cod stocks. *Bulletin of Marine Science* 89:107-122. dx.doi.org/10.5343/bms.2011.1134

Bell, R.J., **J.S. Collie**, D. Jamu and M. Banda. 2012. Changes in the biomass of chambo in the

southeast arm of Lake Malawi: a stock assessment of *Oreochromis* spp. *Journal of Great Lakes Research* 38:720-729.

Van Kirk, K., Quinn, T.J., **Collie, J.S.**, and T. A'mar. 2012. Multispecies age-structured assessment for groundfish and sea lions in Alaska. In: G.H. Kruse, H.I. Browman, K.L. Cochrane, D. Evans, G.S. Jamieson, P.A. Livingston, D. Woodby, and C.I. Zhang (eds.), *Global Progress in Ecosystem-Based Fisheries Management*. Alaska Sea Grant, University of Alaska Fairbanks.

Collie, J.S., R.M. Peterman, and B.M. Zuehlke. 2012. A fisheries risk-assessment framework to evaluate trade-offs among management options in the presence of time-varying productivity. *Can. J. Fish. Aquat. Sci.* 69:209-223.

Steele, J.H., Gifford, D.J., **Collie, J.S.**, 2011. Comparing species and ecosystem-based estimates of fisheries yields. *Fisheries Research* 111: 139-144.

Rochet, M.-J., J.S. Collie, S. Jennings, and S.J. Hall. 2011. Does selective fishing conserve community biodiversity? Predictions from a length-based model. *Can. J. Fish. Aquat. Sci.* 68:469-486.

Van Kirk, K.F., T.J. Quinn, and **J.S. Collie**. 2010. A multispecies age-structured assessment model for the Gulf of Alaska. *Can. J. Fish. Aquat. Sci.* 67:1135-1148. DOI:10.1139/F10.053.

Collie, J.S., D.J. Gifford, and J.H. Steele. 2009. End-to-end food-web control of fish production on Georges Bank. *ICES Journal of Marine Science* 66:791-796.

Collie, J.S., J.M. Hermsen, and P.C. Valentine. 2009. Recolonization of gravel habitats on Georges Bank (northwest Atlantic). *Deep-Sea Research II*. In press. doi:10.1016/j.dsr2.2009.05.025.

Worm, B. R. Hilborn, J. Baum, T. Branch, **J.S. Collie**, C. Costello, M. Fogarty, E. Fulton, J. Hutchings, S. Jennings, O. Jensen, H. Lotze, P. Mace, T. McClanahan, C. Minto, S. Palumbi, A. Parma, D. Ricard, A. Rosenberg, R. Watson, D. Zeller. 2009. Rebuilding global fisheries. *Science* 325:578-585.

Gifford, D.J. **J.S. Collie**, and J.H. Steele. 2009. Functional diversity in a marine fish community. *ICES Journal of Marine Science* 66:791-796.

Courses Taught:

Fish Population Dynamics (undergraduate and graduate)

Fisheries Oceanography (graduate)

Oceanographic Models and Data Analysis (graduate)

Graduate Students Supervised:

Master of Science in Fisheries, University of Alaska 3

Master of Science in Oceanography, University of Rhode Island 11

Doctor of Philosophy in Oceanography, University of Rhode Island 9

Outreach and Service Activities:

1. New England Fishery Management Council, Scientific and Statistical Committee, 2013- .
2. Ocean Studies Board, Committee on the Effectiveness of Stock Rebuilding Plans, 2012-2013
3. Rhode Island Ocean Special Area Management Plan, Science Advisory Task Force, 2009-2011
4. U.S. National Oceanic and Atmospheric Administration, Science Advisory Board, Ecosystem Sciences and Management Working Group, 2009-2011.
5. National Center for Ecological Analysis and Synthesis, Working Group on "Finding common ground in marine conservation and management" 2007-2009.
6. ICES Marine Habitat Committee, 1997-2008.
7. ICES Working Group on Ecosystem Effects of Fishing Activities, 1996-present.
8. Rhode Island Marine Fisheries Council member from 1996-2001.