

Curriculum Vita

JEREMY S COLLIE

Professor of Oceanography
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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 five years)

Mazor, T, Pitcher, CR, Rochester, W, ... **Collie, J.S.** et al. 2021. Trawl fishing impacts on the status of seabed fauna in diverse regions of the globe. *Fish and Fisheries* 22: 72-86.
<https://doi.org/10.1111/faf.12506>

Fogarty, M.J. and **J.S. Collie.** 2020. Fisheries Ecosystem Dynamics. Oxford University Press.

Langan, J.A., D.R. Zemeckis, M.C. McManus & **J.S. Collie** 2020. Abundance and distribution of Atlantic cod (*Gadus morhua*) in a warming southern New England. *Fishery Bulletin* 118: 145-156.

Gislason, H, **Collie, J.S.**, MacKenzie, B. et al. 2020. Species richness in North Atlantic fish: Process concealed by pattern. *Global Ecol. and Biogeography* 00: 1– 15. <https://doi.org/10.1111/geb.13068>

Zottoli, J.D., **J.S. Collie** & M.J. Fogarty. 2020. Measuring the balance between fisheries catch and fish production. *Marine Ecology Progress Series* 643: 145-158.

Friedland, K.D., J.A. Langan, S.I. Large, R.L. Selden, J.S. Link, R.A. Watson & **J.S. Collie.** Changes in higher trophic level productivity, diversity and niche space in a rapidly warming continental shelf ecosystem. *Science of the Total Environment* 704, 135270.

Orphanides, C.D., F.W. Wenzel & **J.S. Collie.** 2020. Diet of harbor porpoises (*Phocoena phocoena*) on the continental shelf off southern New England. *Fishery Bulletin* 118: 184-197.

Bockus, A.B., C.L. Labreck, J.L. Camberg, **J.S. Collie** & B.A. Seibel. 2020. Thermal range and physiological tolerance mechanisms in two shark species from the northwest Atlantic. *Biological Bulletin* 238: 131-144, doi: 10.1086/708718

McConnaughey, R.A., J.G. Hiddink, S. Jennings, C.R. Pitcher, M.J. Kaiser, P. Suuronen, M.

- Sciberras, A.D. Rijnskor, **J.S. Collie**, T. Mazor, R.O. Amoroso, A.M. Parma & R. Hilborn. 2020. Choosing best practices for managing impacts of trawl fishing on seabed habitats and biota. *Fish and Fisheries* 21: 319-337.
- Innes-Gold A, Heinichen M, Gorospe K, Truesdale C, **Collie J**, Humphries A. 2020. Modeling 25 years of food web changes in Narragansett Bay (USA) as a tool for ecosystem-based management. *Mar. Ecol. Prog. Ser.* 654:17-33. <https://doi.org/10.3354/meps13505>
- Hiddink, J.G., S. Jennings, M. Sciberras, ... J.S. Collie et al. 2019. Assessing bottom-trawling impacts based on the longevity of benthic invertebrates. *Journal of Applied Ecology* 57:1199-1209.
- Langan, J.A., M.C. McManus, A.J. Schonfeld, C.L. Truesdale, and **J.S. Collie**. 2019. Evaluating summer flounder spatial sex-segregation in a southern New England estuary. *Marine and Coastal Fisheries: Dynamics, Management, and Ecosystem Science* 11:76-85.
- Truesdale, C.L., M.C. McManus, and **J.S. Collie**. 2019. Growth and molting characteristics of Jonah crab (*Cancer borealis*) in Rhode Island Sound. *Fisheries Research* 211: 13-20.
- Tableau, A., **J.S. Collie**, R. Bell, and C. Minto. 2019. Decadal changes in the productivity of New England fish populations. *Can. J. Fish. Aquat. Sci.* 76: 1528-1540.
- Amoroso, R.O., Pitcher, C.R., Rijnsdorp, A.D., McConnaughey, R.A., Parma, A. M., Suuronen, P... **Collie, J.S.** et al. 2018. Bottom trawl fishing footprints on the world's continental shelves. *Proceedings of the National Academy of Sciences* 115: (43) E10275-E10282.
- Hiddink, J.G., S. Jennings, M. Sciberras, C.L. Szostek, K.M. Hughes, N. Ellis, A.D. Rijnsdorp, R.A. McConnaughey, T. Mazor, R. Hilborn, **J.S. Collie**, C.R. Pitcher, R.O. Amoroso, A.M. Parma, P. Suuronen, and M.J. Kaiser. 2017. Global analysis of depletion and recovery of seabed biota after bottom trawling disturbance. *Proceedings of the National Academy of Sciences*. 114g: 8301–8306.
- Bell, R.J., **J.S. Collie**, T.A. Branch, M.J. Fogarty, C. Minto, and D. Ricard. 2017. Changes in the size structure of marine fish communities. *ICES Journal of Marine Science* 75(1): 102-112.

Courses Taught:

- Fish Population Dynamics (undergraduate and graduate)
- Fisheries Oceanography (graduate)
- Ecosystem Based Fisheries Science and Management (graduate)
- Ocean Food Web Exploration and Analysis (undergraduate)

Graduate Students Supervised:

Master of Science in Fisheries, University of Alaska	3
Master of Science in Oceanography, University of Rhode Island	14
Doctor of Philosophy in Oceanography, University of Rhode Island	13

Outreach and Service Activities:

1. New England Fishery Management Council, Scientific and Statistical Committee, 2013-present
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 the Ecosystem Effects of Fishing Activities, 1996-2020.
8. Ocean Studies Board, Committee on Effects of Bottom Trawling on Seafloor Habitats, 2000-2002.
9. Rhode Island Marine Fisheries Council member from 1996-2001.