

## JONATHAN H. GRABOWSKI

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### 1. Education

PhD	2002	University of North Carolina at Chapel Hill	Ecology
BS	1994	Duke University	Biology & Economics

### 2. Appointments

2005-present	Adjunct Scientist, University of Maine (UMaine) & University of Southern Maine (USM)
2004-present	Research Scientist, Gulf of Maine Research Institute (GMRI)
2002-2004	Post-Doctorate, UMaine and GMRI

### 3. Publications Most Relevant to Proposed Research Activities

**Grabowski, J. H.**, J. Gaudette, G. D. Sherwood, S. Sherman, G. Wippelhauser, and J. Kelley. Identifying habitat associations of early juvenile cod in nearshore Gulf of Maine waters. *Transactions of the American Fisheries Society* (in review).

**Grabowski, J. H.**, E. J. Clesceri, J. Gaudette, A. Baukus, M. Weber, and P. O. Yund. Use of herring bait to farm lobsters in the Gulf of Maine. *Proceedings of the Library of Science One* (in review).

**Grabowski, J. H.**, E. J. Clesceri, J. Gaudette, and P.O. Yund. 2009. The role of food limitation in lobster population dynamics throughout the Gulf of Maine. *New Zealand Journal of Marine Science and Freshwater Research* (in press).

McGonigle, C., C. Brown, R. Quin, and **J. H. Grabowski**. 2009. Evaluation of image-based multibeam sonar backscatter classification for benthic habitat discrimination and mapping at Stanton Banks, UK. *Estuarine and Coastal Shelf Science* (in press).

Smith, M. D., **J. H. Grabowski**, and P. O Yund. 2008. The role of closed areas in supporting monkfish populations in the Gulf of Maine. *ICES Journal of Marine Science* 65:1326-1333.

### Five Other Papers

Schmitz, O., **J. H. Grabowski**, B. L. Peckarsky, E. L. Preisser, G. C. Trussell, J. Vonesh. 2008. From individuals to ecosystem function: Toward an integration of evolutionary and ecosystem ecology. *Ecology* 89: 2436-2445.

**Grabowski, J. H.**, A. R. Hughes, D. L. Kimbro, and M. A. Dolan. 2005. How habitat setting influences restored oyster reef communities. *Ecology* 86:1926-1935.

Lenihan, H. S., C. H. Peterson, S. L. Kim, K. E. Conlan, R. Fairey, C. McDonald, **J. H. Grabowski**, and J. S. Oliver. 2003. Variation in marine benthic community composition allows discrimination of multiple stressors. *Marine Ecology progress Series* 261:63-73.

Peterson, C. H., **J. H. Grabowski**, and S. P. Powers. 2003. Estimated enhancement of fish production resulting from restoring oyster reef habitat: quantitative valuation. *Marine Ecology Progress Series* 264:249-264.

Peterson, C. H., H. C. Summerson, E. Thomson, H. S. Lenihan, **J. H. Grabowski**, L. Manning, F. Micheli, and G. Johnson. 2000. Synthesis of linkages between benthic community ecology and fish uses as a key to protecting essential fish habitat. *Bulletin of Marine Science* 66: 759-774.

#### **4. Synergistic Activities**

1. I developed the curriculum for a field intensive course on the Ecology of Marine Fishes at the Shoals Marine Laboratory of Cornell University, which I taught in 2000 and 2001. I also co-taught a course on Underwater Research from 2002-2007. Both courses stress that students develop skills in conducting field ecology, including developing research questions, collecting and analyzing data, and designing ecological experiments. Several former students in this course have enrolled in graduate programs and pursued careers as research scientists.

2. I served as a preceptor for the Minority Pre-graduate Research Experience Program at the University of North Carolina at Chapel Hill from 1997 to 2000. During this tenure, I mentored four undergraduate students, each of which learned about the logistical and intellectual difficulties and rewards of conducting empirical research in applied contexts.

3. I developed quantitative methods to assess secondary and tertiary biomass associated with estuarine habitats to evaluate ecosystem services and scale restoration efforts more effectively. This body of work has been utilized extensively by NOAA-Assessment & Restoration Division as a mitigation tool for environmental damage assessment and habitat equivalency analysis (HEA).

4. Member of New England Fisheries Management Council – Habitat Plan and Development Team, which provides the council with reviews of Habitat Areas Of Particular Concern and risk and vulnerability assessments of fishing activities to Gulf of Maine and Georges Bank ecosystems; member of the Gulf of Maine Mapping Initiative’s Steering Committee; Southern Maine Community College-Applied Marine Biology & Oceanography Department – Advisory Board member since spring 2007; and the University of Cornell’s Shoals Marine Laboratory’s Dive Control Board Member.

5. Also an active member of the advisory board for the GMRI-Vital Signs mapping invasive species (MIS) development program. The advisory board is developing a program for use in every Maine middle school throughout the state that will require students to collect data on the presence of invasive species in aquatic habitats throughout Maine. The goal of this program is to teach students about conducting research to increase their understanding and appreciation for science while allowing them to contribute to a large dataset of observations that would be available on the web for other students, managers, and scientists to peruse.

#### **5. Collaborators**

Drs. J. Runge, A. Pershing, B. Steneck & Y. Chen (UMO); Dr. L. Incze (USM); Dr E. Herrera (Bowdoin C.); Dr. P. Lawton & Mr. D. Robichauld (DFO-St. Andrews); Drs. J.E. Byers, T. Weber, D. Berlinsky, A. Kovach, & H. Howell (UNH); Dr. E.J. Clesceri (USAID); Dr. Geoff Trussell (NEU); Drs. J. Churchill, A. Richards, & G. Bath-Martin (NOAA); Drs. C.H. Peterson, M.J. Piehler & J. Bruno (UNC); Dr. B. Conrad (Duke); Dr. S. Powers (USouth Alabama-DISL); Dr. A.R. Hughes & Mr. D.L. Kimbro (FSU); Dr. Craig Brown (U. Ulster); Dr S. Jury (Marical).

Ph.D. Advisor: Dr. C.H. Peterson (UNC-Chapel Hill), Postdoctoral advisor: Dr. P.O. Yund (UNE)