

**DANIEL S. HOLLAND**  
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Resource Economics  
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**Professional Preparation:**

University of Utah	Economics	B.A. 1988
University of Illinois	Agricultural Economics	M.S. 1993
University of Rhode Island	Env. Nat. Resource Economics	Ph.D. 1998

**Appointments:**

2005-present Research Scientist: Gulf of Maine Research Institute  
2005-present Adjunct Professor, Univ. of Maine School of Marine Science, Univ. of Maine School of Law, University of Rhode Island, Dept. Env. Nat. Res. Econ.  
2003-2005 Senior Economist, New Zealand Seafood Industry Council  
2000-2002 Assistant Professor, School for Marine Science and Technology (SMAST), Univ. of Massachusetts Dartmouth  
1998-2000: Industry Economist, NMFS Alaska Fisheries Science Center  
1994-1998: Graduate Research Assistant, Univ. of Rhode Island  
1994-1998: Fisheries Consultant, MARSEA Assoc., J.L. Anderson & Assoc., Kingston, RI.  
1993-1994 Environmental Policy Analyst: Plexus Engineering, Alexandria, VA.  
1991-1993 Graduate Research Assistant, University of Illinois Urbana-Champaign  
1988-1990 Agricultural Education Program Coordinator, Peace Corps, Lome, Togo.

**Selected Publications Relevant to Proposal:**

**Holland, Daniel S.** 2007. Managing Environmental Impacts of Fishing: Input Controls versus Outcome Oriented Approaches. *International Journal of Global Environmental Issues* 7(2,3):255-272.

**Holland, Daniel S.** 2004. Spatial Fishery Rights and Marine Zoning: A Discussion with Reference to Management of Marine Resources in New England. *Marine Resource Economics*. 19(1):21-40.

**Holland, Daniel S.** 2003. Integrating Spatial Management Measures into Traditional Fishery Management Systems: The Case of the Georges Bank Multispecies Fishery. *ICES Journal of Marine Science* 60:915-929.

**Holland, Daniel S.** and J.J. Maguire. 2003. Optimal Effort Controls for the Multispecies Groundfish Complex in New England. *Canadian Journal of Fisheries and Aquatic Sciences*, 62(2):159-170.

**Holland, Daniel S.** 2000. A bioeconomic model of marine sanctuaries on Georges Bank. *Canadian Journal of Fisheries and Aquatic Sciences* 57:1307-1319

**Holland, Daniel S.** and Jon G. Sutinen. 2000. Location Choice in New England Trawl Fisheries: Old Habits Die Hard. *Land Economics* 76(1):133-149.

**Holland, Daniel S.** and Kurt E. Schnier Individual Habitat Quotas for Fisheries 2006. *Journal of Environmental Economics and Management*. 51:72-92.

**Holland, Daniel S.**, Nokome Bentley and Philippe Lallemand 2005. A Bioeconomic Analysis of Management Strategies for Rebuilding and Maintenance of the NSS Rock Lobster Stock in Southern New Zealand. *Canadian Journal of Fisheries and Aquatic Sciences*. 62(7);1553-1569.

## **Synergistic Activities**

- Lead Principal investigator on Maine Sea Grant grant using bioeconomic models to inform fishery managers and stakeholders of the potential benefits and risks of spatial groundfish management strategies given alternative metapopulation structures that may exist and uncertainty about true spatial dynamics of stocks.
- Lead Principal investigator on NSF Couple Natural Human Systems grant examining key natural and human linkages among the Gulf of Maine lobster, herring and groundfish fisheries and integrating them into a quantitative framework that can be used to manage the system for increased sustainability and human benefits.
- Worked with fishermen, quota owners and other fishery modelers to undertake a management strategy evaluation of two New Zealand lobster fisheries to support decision making on a decision-rule based rebuilding plan and a proposal to combine the two fisheries into a single quota management area.
- Served on the Northeast multispecies fishery plan development team (PDT) during development of Amendment 13 to the fishery management plan which included substantial changes to allow for cooperative management, transferability of effort allocations and elimination of much of the latent effort in the fishery.
- Developed and taught courses on economics of marine resources targeted at non-economists including a course for Ph.D. and M.S. students in interdisciplinary marine science and technology program and a course on regulation of marine fisheries for the Maine School of Law
- Served as associate editor of Marine Resource Economics since 2001 and serve as reviewer for: Marine Resource Economics, Journal of Environmental Economics and Management, Land Economics, Canadian Journal of Fisheries and Aquatic Sciences, Natural Resource Modeling, Aquatic Living Resources, Fish and Fisheries, Fisheries Research, International Journal of Global Environmental Issues, Environment and Development Economics

## **Collaborators and Co-authors:**

Chris Anderson (URI), John Annala (GMRI), Nokome Bentley (Trophia), Rita Curtis (NMFS), Mark Fina (NPFMC), Elizabeth Fulton (CSIRO), Nici Gibbs (SeaFIC), Guillermo Herrera (Bowdoin), Robert Hicks (William & Mary), Ray Hilborn (UWA), Robert Johnston (UConn), Isaac Kaplan (NMFS), Todd Lee (NMFS), Jean Jacque Maguire (independent), (Kate Quigley (MAFMC), Jim Sanchirico (Resources for the Future), Kurt Schnier (URI), Kevin Stokes (SeaFIC)

## **Graduate Advisors**

John Sutinen, University of Rhode Island, Ph.D. advisor

Richard Brazee, University of Illinois, M.S. advisor