

James A. Wilson

Prof. of Marine Sciences and Economics
School of Marine Sciences, University of Maine
Coordinator, Marine Policy Program

Education

BA, English literature, Lake Forest College, 1962
PhD, Economics, University of Wisconsin, 1971

Appointments

1996-2006, Prof. of Marine Sciences and Economics,
2000-2001, Visiting Fellow, Indiana University
1996-1999, Associate Director, School of Marine Sciences, University of Maine
1988-1996, Professor of Resource Economics, University of Maine
1980-1981, Fellow, Woods Hole Oceanographic Institute
1968-1988, Professor of Economics, University of Maine

Current research and other funding:

Dual degree in marine science and policy (Kendall Foundation, \$215K, 2003-05; additional \$200K 2005-2009)
Sea Grant, An agent-based model of the lobster fishery, with D. Hiebeler and Y. Chen (\$105K, 01-2004 to 12-2007)
NSF. Linking human socioeconomic and biophysical processes in coastal marine ecosystems along the Pacific coast of Baja California, México (\$173K, Subcontract to Stanford, Hopkins Marine Station).
Kendall Foundation. Downeast Initiative, community based approach to ecosystem management of fisheries. (\$154K Maine Seacoast Mission fiscal agent)
Gordon and Betty Moore Foundation. Support of the Downeast Initiative. (\$56K. 2007-2009)

C. Publications (most closely related to this project)

Wilson, James, Liying Yan, and Carl Wilson. 2007. The precursors of governance in the Maine lobster fishery. *Proceedings of the National Academy of Sciences USA* 104:15212-15217.
Wilson, J. A. 2006. Matching social and ecological systems in complex ocean fisheries. *Ecology and Society* 11(1): 9. [online] URL: <http://www.ecologyandsociety.org/vol11/iss1/art9/>
Wilson, James. 2002. Scientific Uncertainty, Complex Systems and the Design of Common Pool Institutions, in the Drama of the Commons. Eds. Paul Stern, Elinor Ostrom, Thomas Dietz, and Nives Dolzak. National Research Council, Committee on Human Dimensions of Global Climate Change.
Low, Bobbi, E. Ostrom, C. Simon and J. Wilson. 2002. Redundancy in Social and Ecological Systems. In *Navigating Nature's Dynamics: Building Resilience for Adaptive Capacity in Social-Ecological Systems*. Berkes, F., Colding, J. and Folke, C. (editors), Cambridge University Press, Cambridge, UK.
Wilson, J.A., E. Ostrom, B. Low, and R. Costanza, 2000. Scale misperceptions: and the spatial dynamics of a social-ecological system, *Ecological Economics*, Vol. 31, pp.243-57.

Publications (broader articles of relevance)

Berkes, F., T. P. Hughes, R. S. Steneck, J. A. Wilson, D. R. Bellwood, B. Crona, C. Folke, L. H. Gunderson, H. M. Leslie, J. Norberg, M. Nyström, P. Olsson, H. Österblom, M. Scheffer, B. Worm. 2006. Globalization, Roving Bandits, and Marine Resources. *Science*. 311:1557-8.
Crowder, L. B., G. Osherenko, O. R. Young, S. Airamé, E. A. Norse, N. Baron, J. C. Day, F. Douvère, C. N. Ehler, B. S. Halpern, S. J. Langdon, K. L. McLeod, J. C. Ogden, R. E. Peach, A. A. Rosenberg, J. A. Wilson. 2006. Resolving Mismatches in U.S. Ocean Governance. *Science*, vol. 313: 1557-8.
Hughes, T., D. Bellwood, C. Folke, R. Steneck and J. Wilson. 2005. New paradigms for supporting the resilience of marine ecosystems. *Trends in Ecology and Evolution* 20:7.

Costanza, R., B. Low, E. Ostrom and J. Wilson. 2001. *Institutions, Ecology and Sustainability*, CRC Press. Boca Raton/London.

Wilson, J.A., P. Kleban, J. Acheson and M. Metcalfe, 1994. *Chaos, Complexity and Community Management of Fisheries*, *Marine Policy*, Vol.18 (4), pp. 291-305.

D. Synergistic Activities

My academic teaching and research concentrates on strongly interdisciplinary (science/social science) approaches to the management of ocean resources; it emphasizes the perspectives of complex adaptive systems theory and, on the social side, institutional economics. I tend to work more often with scientists than I do with social scientists. I created and am coordinator of a unique 'dual degree' program in which students obtain a master's in marine biology or oceanography and a second master's in marine policy. I try to ground my academic work in the reality of New England fisheries and have had very strong working relationships with large numbers of fishermen, and state and federal managers over the years. Currently, I co-chair the Downeast Groundfish Initiative (a community, industry, science proposal for the reform of groundfish management); in the mid-nineties I chaired the State (DMR) committee that created local management zones in the lobster fishery and, earlier, was instrumental in the creation of the Portland Fish Exchange.

E. Collaborators & Other Affiliations

James Acheson, University of Maine

Yong Chen, University of Maine

Robert Costanza, University of Vermont

Chris Costello, UCSB

Larry Crowder, Duke University

Carl Folke, Stockholm University

Bobbi Low, University of Michigan

Terry Hughes, James Cook University

Marco Janssen, Arizona State University

Teresa Johnson, University of Maine

Les Kaufman, Boston University

Bobbi Low, University of Michigan

Bonnie McCay, Rutgers University

Fiorenza Micheli, Stanford University

Jon Norberg, Stockholm University

Gail Osherenko, UCSB

Elinor Ostrom, Indiana University

Rick Riolo, University of Michigan

Carl Simon, University of Michigan

Robert Steneck, University of Maine

Brian Walker, CSIRO

Liyang Yan, University of Maine

Oran Young, UCSB