

GRAHAM D. SHERWOOD
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Demersal Fisheries Ecology
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PROFESSIONAL PREPARATION

McGill University, Biology & Environmental Science (Double Major), B.Sc., 1994
McGill University, Biology, Ph.D., 2002

APPOINTMENTS

2005-present Research Scientist, Demersal Fisheries Ecology, Gulf of Maine Research Institute (GMRI)
2005-present Adjunct Scientist, University of Southern Maine (USM)
2002-2005 Post-Doctoral Fellow, Memorial University of Newfoundland and Labrador (MUN)
2004 Instructor, Fisheries Ecology, Marine Institute, MUN

FIVE MOST RELEVANT PUBLICATIONS

Rose, G.A., Bradbury, I.R., deYoung, B., Fudge, S.B., Lawson, G.L., Mello, L.G.S., Rideout, R., Robichaud, D.R., **Sherwood, G.D.**, Snelgrove, P.V.R., and Windle, M.J.S. 2008. Rebuilding Atlantic Cod: Lessons from a Spawning Ground in Coastal Newfoundland. In *Resiliency of Gadid Stocks to Fishing and Climate Change*. Alaska Sea Grant College Program.

Sherwood, G.D., Rideout, R.M., Fudge, S.B., and Rose, G.A. 2007. Influence of diet on growth, condition and reproductive capacity in Newfoundland and Labrador cod (*Gadus morhua*): insights from stable carbon isotopes. *Deep-Sea Research II* 54: 2794-2809.

Sherwood, G.D., and Rose, G.A. 2005. Stable isotope analysis of some representative fish and invertebrates of the Newfoundland and Labrador continental shelf ecosystem. *Estuarine, Coastal and Shelf Science* 63: 537-549.

Sherwood, G.D. and Rose, G.A. 2003. Influence of swimming form on otolith $\delta^{13}\text{C}$ in marine fish. *Marine Ecology Progress Series* 258: 283-289.

Sherwood, G.D., Windle, M.J.S., Grabowski, J.G., Nelson, J., and Rose, G.A. Divergent life-history strategies in Newfoundland cod and implications for recovery. In preparation.

FIVE OTHER PUBLICATIONS

Kövecses, J., **Sherwood, G.D.**, and Rasmussen, J.B. 2005. Impacts of altered benthic invertebrate communities on the feeding ecology and growth of perch (*Perca flavescens*) in metal contaminated lakes. *Canadian Journal of Fisheries and Aquatic Sciences* 62: 153-162.

Sherwood, G.D., Pazzia, I., Moeser, A., Hontela, A., and Rasmussen, J.B. 2002. Shifting gears: enzymatic evidence for the energetic advantage of switching diet in wild-living fish. *Canadian Journal of Fisheries and Aquatic Sciences* 59: 229-241.

Sherwood, G.D., Kövecses, J., Hontela, A., and Rasmussen, J.B. 2002. Simplified food webs lead to energetic bottlenecks in polluted lakes. *Canadian Journal of Fisheries and Aquatic Sciences* 59: 1-5.

Sherwood, G.D., Rasmussen, J.B., Rowan, D.J., Brodeur, J., and Hontela, A. 2000. Bioenergetic costs of heavy metal exposure in yellow perch (*Perca flavescens*): in situ estimates with a radiotracer (¹³⁷Cs) technique. *Canadian Journal of Fisheries and Aquatic Sciences* 57: 441-550.

Grabowski, J.H., Gaudette, J., **Sherwood, G.D.**, Sherman, S., Wippelhauser, G., and Kelley, J.T. Identifying habitat associations of juvenile cod in nearshore Gulf of Maine waters. *Canadian Journal of Fisheries and Aquatic Sciences*. Submitted.

SYNERGISTIC ACTIVITIES

- 1) Director of Coast of Maine Passive Acoustic Sensor System (*CoM-PASS*) a consortium of fish biologists engaged in acoustic fish monitoring in nearshore Maine waters and funded by the Maine Marine Research Fund.
- 2) Principal and co-principal investigator for several collaborative (with fishermen) research projects in New England waters examining diet, movement, and habitat associations in herring, monkfish, cod, and haddock.
- 3) Serve as reviewer for *Canadian Journal of Fisheries and Aquatic Sciences*, *Marine Ecology Progress Series*, *Ecotoxicology and Environmental Safety*, *Journal of Animal Ecology*, *Canadian Journal of Zoology*, *ICES Journal of Marine Science*, *Estuaries and Coasts*, and *Wetlands*. Served as panelist for New Hampshire Sea Grant and reviewed proposals for MIT Sea Grant. Member of USM Institutional Animal Care and Use Committee.
- 4) Actively involved in public outreach and education at the Gulf of Maine Research Institute and regularly give lectures to interested public as well as engage 5th and 6th grade students in current research.
- 5) Participant and presenter at 2003 Zonal Advisory Process (ZAP) meeting held by Fisheries and Oceans Canada (DFO) to explore “Alternate hypotheses for poor recovery of Eastern Canadian cod stocks”.
- 6) Have taught undergraduate courses in Fisheries Ecology (Memorial), General Biology (McGill) and Aquatic Ecology (McGill).

COLLABORATORS

G. Rose (MUN), R. Rideout (DFO), M. Simpson (DFO), M. Windle (MUN), S. Fudge (MUN), J. Rasmussen (U. of Lethbridge), A. Hontela (U. of Lethbridge), P. Campbell, (INRS-ETE), J. Grabowski (GMRI), J. Kocik (NOAA), G. Wippelhauser (Maine DMR), G. Zydlewski (UMaine), K. Wilson (USM), T. Willis (USM), J Runge (UMaine), L. Incze (USM), D. Holland (GMRI), A. Pershing (UMaine), A. Richards (NMFS), Y. Chen (UMaine), S. Tallack (GMRI), G. Herrera (Bowdoin)

GRADUATE AND POSTDOCTORAL ADVISORS

Ph.D., J.B. Rasmussen (U. of Lethbridge)
Postdoctoral, G.A. Rose (MUN)