

GARETH L. LAWSON

Assistant Scientist
Biology Department
Woods Hole Oceanographic Institution

Professional Preparation

McGill University	B.Sc. Biology	1996
Memorial University of Newfoundland	M.Sc. Biology	1999
MIT/Woods Hole Oceanographic Institution	Ph.D. Biological Oceanography	2006
Stanford University	Postdoc, Biological Oceanography	2006 - 2008

Appointments

Assistant Scientist	Woods Hole Oceanographic Institution	2009 - present
Guest Investigator	Woods Hole Oceanographic Institution	2006 - 2008
Visiting Scientist	Dept. of Environmental Affairs, South Africa	1999 - 2000

Five Publications Relevant to the Proposed Research

- Lawson, G.L., P.H. Wiebe, T.K. Stanton, and C.J. Ashjian. 2008. Euphausiid distribution along the Western Antarctic Peninsula - (A) Development of robust multi-frequency acoustic techniques to identify euphausiid aggregations and quantify euphausiid size, abundance, and biomass. *Deep-Sea Research II*, 55: 412-431.
- Lawson, G.L., P.H. Wiebe, C.J. Ashjian, and T.K. Stanton. 2008. Euphausiid distribution along the Western Antarctic Peninsula - (B) Distribution of euphausiid aggregations and biomass, and associations with environmental features. *Deep-Sea Research II*, 55: 432-454.
- Lavery, A.C., P.H. Wiebe, T.K. Stanton, G.L. Lawson, M.C. Benfield, and N.J. Copley. 2007. Determining dominant scatterers of sound in mixed zooplankton populations. *Journal of the Acoustical Society of America*, 122: 3304-3326.
- Lawson, G.L., P.H. Wiebe, C.J. Ashjian, D. Chu, and T.K. Stanton. 2006. Improved parameterization of Antarctic krill target strength models. *Journal of the Acoustical Society of America*, 119: 232-242.
- Lawson, G.L., P.H. Wiebe, C.J. Ashjian, S.M. Gallager, C.S. Davis, and J.D. Warren. 2004. Acoustically-inferred zooplankton distribution in relation to hydrography west of the Antarctic Peninsula. *Deep-Sea Research II*, 51: 2041-2072.

Five Additional Significant Publications

- Friedlaender, A.S., G.L. Lawson, and P.N. Halpin. In press. Evidence of resource partitioning between humpback and minke whales around the Western Antarctica Peninsula. *Marine Mammal Science*.
- Ribic, C.A., E. Chapman, W.R. Fraser, G.L. Lawson, and P.H. Wiebe. 2008. Top predators in relation to bathymetry, ice, and krill during austral winter in Marguerite Bay, Antarctica. *Deep-Sea Research II*, 55: 485-499.
- Friedlaender, A.S., P.N. Halpin, S. Qian, G.L. Lawson, P.H. Wiebe, D. Thiele, and A.J. Read. 2006. Whale distribution in relation to prey abundance and oceanographic processes in shelf waters of the Western Antarctic Peninsula. *Marine Ecology Progress Series*, 317: 297-310.

Lawson, G.L., M. Barange, and P. Fréon. 2001. Species identification of pelagic fish schools on the South African continental shelf using acoustic descriptors and ancillary information. *ICES Journal of Marine Science*, 58: 275-287.

Lawson, G.L., and G.A. Rose. 2000. Small-scale spatial and temporal patterns in spawning of Atlantic cod (*Gadus morhua*) in coastal Newfoundland waters. *Canadian Journal of Fisheries and Aquatic Sciences*, 57: 1011-1024.

Selected Honors and Awards

Outstanding Student Paper Award, ASLO/AGU Ocean Sciences Meeting	2006
Office of Naval Research Graduate Traineeship in Ocean Acoustics	2002 - 2005
Fulbright Scholarship	2000
Natural Sciences and Engineering Research Council (Canada) Postgrad Scholarship	2000 - 2002
Fellow of the School of Graduate Studies, Memorial University of Newfoundland	1999

Collaborators and Other Affiliations

Collaborators within last 4 years: Dr. Carin Ashjian, WHOI; Dr. Mark Benfield, Louisiana State University; Dr. Andre Boustany, Duke University; Dr. Erik Chapman, University of New Hampshire; Dr. Dezhang Chu, WHOI/NOAA; Dr. Glenn Flierl, MIT; Dr. Ari Friedlaender, Duke University; Dr. Charles Greene, Cornell University; Dr. Patrick Halpin, Duke University; Dr. Hiro Kurota, Far Seas Fisheries, Japan; Dr. Andone Lavery, WHOI; Dr. Murdoch McAllister, University of British Columbia; Dr. Christine Ribic, University of Wisconsin, Madison; Dr. Malinda Sutor, Louisiana State University; Dr. Nathan Taylor, University of British Columbia; Dr. Steven Teo, University of California, Davis; Dr. Joseph Warren, Stony Brook University; Dr. Ariane Verdy, MIT

Graduate Advisors: Dr. George Rose (Memorial University of Newfoundland; M.Sc. advisor), Drs. Timothy Stanton and Peter Wiebe (WHOI; Ph.D. advisors)

Post-Doctoral Sponsor: Dr. Barbara Block