

CURRICULUM VITA

PETER H. WIEBE (Senior Scientist Emeritus)

Woods Hole Oceanographic Institution

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Phone # (508) 289-2313

Born: October 2, 1940; Salinas, California

B.S., 1962, North Arizona University

Ph.D., 1968, University of California, San Diego

POSITIONS HELD:

Research Assistant, Scripps Institution of Oceanography, 1962-1968

Postdoctoral Fellow, Hopkins Marine Station, Stanford University, 1968-1969

Temporary Assistant Professor, Oregon State University, July-August, 1969

Assistant Scientist, Woods Hole Oceanographic Institution, 1969-1974

Associate Scientist, Woods Hole Oceanographic Institution, 1974-1984

Director, Center for Analysis of Marine Systems (WHOI), January 1983-December 1986

Senior Scientist, Woods Hole Oceanographic Institution, 1984-January 2007

Department Chairman, Biology Department, Woods Hole Oceanographic Institution, 1988-1992

Adjunct Professor, Boston University, 1989-1997

Senior Scientist Emeritus, Woods Hole Oceanographic Institution, May 2007 - present

AWARDS AND HONORS:

Awarded the Adams Chair in May 1996

NOAA Earth Day Environmental Hero award, May 1999 (by letter from Vice-President Al Gore)

SOCIETIES:

American Association for the Advancement of Science (elected Fellow, May 1984)

American Society for Limnology and Oceanography

Phi Kappa Phi

American Geophysical Union

PUBLICATIONS OF THE LAST THREE YEARS:

- 140 2006 Lawson G.L., P.H. Wiebe, and C.J. Ashjian, D. Chu, and T.K. Stanton. Improved parameterization of Antarctic krill target strength models. *Journal of the Acoustical Society of America*. 119(1): 232-242.
- 141 2006 Madin, L.P., P. Kremer, P.H. Wiebe, J.E. Purcell, E.H. Horgan, D.A. Nemazie. Periodic swarms of the salp *Salpa aspera* in the Slope Water off the NE United States: Biovolume, vertical migration, grazing, and vertical flux. *Deep-Sea Research I* 53: 804–819.
- 142 2006 Friedlaender, A.S., P.N. Halpin, S.S. Qian, G.L. Lawson, P.H. Wiebe, D. Thiele, A.J. Read. 2006. Whale distribution in relation to prey abundance and oceanographic processes in shelf waters Western Antarctic Peninsula. *Marine Ecology Progress Series*. 317: 297–310.
- 143 2006 Dewar, W.K., R.J. Bingham, R.L. Iverson, D. P. Nowacek, L. C. St. Laurent, and P. H. Wiebe. 2006. Does the Marine Biosphere Mix the Ocean? *Journal of Marine Research*. 64: 541–561.
- 144 2006 Wiebe, P.H., R.C. Beardsley, D.G. Mountain, and G. Lough. 2006. Introduction to "Dynamics of Plankton and Fish larval Populations on Georges Bank, the North Atlantic U.S. GLOBEC Study Site." *Deep-Sea Research II*. 53(23,24): 2455-2456.
- 145 2006 Li, W, D.J. McGillicuddy, E.G. Durbin, P.H. Wiebe. 2006. Recruitment, development, and mortality of *Calanus finmarchicus* in the Georges Bank Region. *Deep-Sea Research II*. 53(23,24): 2632-2655.
- 146 2006 Knox, R.A., J. A. McGowan, C.B. Miller, and P.H. Wiebe. Comment on: "Grand Challenges for Ocean Sciences Research" [*Oceanography*, 19(2): 14 (2006)] by Alan Brandt". *Oceanography* 19(4): 8.
- 147 2007 Endo, Y. and P.H. Wiebe. 2007. Temporal changes in euphausiid distribution and abundance in North Atlantic cold-core rings in relation to the surrounding waters. *Deep-Sea Res. Part I*. 54(2):181-202.
- 148 2007 Bucklin, A., P.H. Wiebe, S.B. Smolenack, N.J. Copley, J.G. Beaudet, K.G. Bonner, J. Färber Lorda, and J.J. Pierson. 2007. DNA barcodes for species identification of

- euphausiids Euphausiacea, Crustacea). *J. Plankton Res.* 29: 483-493.
- 149 2007 Lavery, A.C., P.H. Wiebe, T.K. Stanton, G.L. Lawson, M.C. Benfield, and N. Copley. 2007. Determining dominant scatterers of sound in mixed zooplankton populations *J. Acoust. Soc. Am.* 122(6): 3304–3326.
- 150 2008 Hofmann, E.E., P.H. Wiebe, D.P. Costa, and J.J. Torres. Introduction to dynamics of plankton, krill, and predators in relation to environmental features of the western Antarctic Peninsula and related areas: SO GLOBEC Part II. *Deep-Sea Research Part II.* 55(3-4): 269-270.
- 151 2008 Lawson, G.L., P.H. Wiebe, T.K. Stanton, and C.J. Ashjian. 2008. Euphausiid distribution along the western antarctic peninsula - Part A: Development of robust multi-frequency acoustic techniques to identify euphausiid aggregations and quantify euphausiid size, abundance, and biomass. *Deep-Sea Research Part II.* 55(3-4): 412-431. [DOI: doi:10.1016/j.dsr2.2007.11.010]
- 152 2008 Lawson, G.L., P.H. Wiebe, C.J. Ashjian, and T.K. Stanton. 2008. Euphausiid distribution along the Western Antarctic Peninsula - Part B: Distribution of euphausiid aggregations and biomass, and associations with environmental features. *Deep-Sea Research II.* 55(3-4): 432-545. [DOI: doi:10.1016/j.dsr2.2007.11.014].
- 153 2008 Ashjian, C.J., C.S. Davis, S.M. Gallager, P.H. Wiebe, and G.L. Lawson. Distribution of Larval Krill and Zooplankton in Association with Hydrography in Marguerite Bay, Antarctic Peninsula, in Austral Fall and Winter 2001 described using the Video Plankton Recorder. *Deep-Sea Research Part II.* 55(3-4): 451-471.
- 154 2008 Ribic C.A., E.W. Chapman, W.R. Fraser, G.L. Lawson, and P.H. Wiebe. Top predators in relation to bathymetry, ice and krill during austral winter in Marguerite Bay, Antarctica. *Deep-Sea Research Part II.* 55(3-4): 485-499.
- 155 2008 Warren J.D. and P. H. Wiebe. 2008. Accounting for biological and physical sources of acoustic scattering improves estimates of zooplankton biomass. *Canadian Journal of Fisheries and Aquatic Sciences.* 65: 1321-1333.

OTHER RELEVANT PAPERS:

- 90 1996 Wiebe, P.H., D. Mountain, T.K. Stanton, C. Greene, G. Lough, S. Kaartvedt, J. Dawson, and N. Copley. Acoustical study of the spatial distribution of plankton on Georges Bank and the relation of volume backscattering strength to the taxonomic composition of the plankton. *Deep-Sea Research II.* 43: 1971-2001.
- 120 2001 Wiebe, P.H. Basin-wide studies of zooplankton through observation and modeling: Synthesis of North Atlantic GLOBEC data sets. *Proceedings of the EuroOcean 2000 Conference, 29 August - 2 September.* [Eds] K.-G. Barthel, C. Lecherf, M. Catizzone, M. Cornaert, A. Edwards, T. Fairley, C. Fragakis, D. Levieil, E. Lipiatou, P. Martin, G. Ollier, L. d'Ozovville, W. Schrimpf. Published by the European Commission, EUR 19408. Pages 71-87.
- 124 2002 Wiebe, P.H., T.K. Stanton, C.H. Greene, M.C. Benfield, H.M. Sosik, T. Austin, J.D. Warren, and T. Hammar. BIOMAPER II: An integrated instrument platform for coupled biological and physical measurements in coastal and oceanic regimes. *IEEE Journal of Oceanic Engineering.* 27(3): 700-716.
- 126 2003 Wiebe, P.H. and M.C. Benfield. From the Hensen Net toward four-dimensional biological oceanography. *Progress in Oceanography.* 56(1): 7-136.
- 132 2004 Wiebe, P.H., C. Ashjian, S. Gallager, C. Davis, G. Lawson, and N. Copley. Using a high powered strobe light to increase the catch of Antarctic krill. *Marine Biology.* 144 (3): 493 - 502.

Synergistic Activities

Member of the ICES Working Group on Zooplankton Ecology since 1994
 Member (U.S. representative) of the ICES Oceanography Committee (appointed in June 1999).
 Co-chair of the ICES Study Group of Management of Integrated Data 2003-2006, Now co-chair of the ICES Working Group for Data and Information Management
 Ex-officio member of U.S. GLOBEC National Steering Committee
 Chairman of the U.S. GLOBEC Georges Bank Program Executive Committee (1993 to Jan 2006)
 Member of the U.S. GLOBEC Southern Ocean Program Executive Committee (2000 to present).
 Chair, UNOLS (October 2004 to October 2006), now Immediate Past Chair.