

ELIZABETH A. LOGERWELL

Resource Ecology and Fishery Management
Alaska Fisheries Science Center, F/AKC2
7600 Sand Point Way NE
Seattle, WA 98115
(206) 526-4231 Libby.Logerwell@noaa.gov

CURRICULUM VITAE

EDUCATION

- 9/83-6/88 B.S. in Biological Sciences with Honors, Stanford University, CA.
- 9/91-6/97 PhD. in Biology, Department of Ecology and Evolutionary Biology, University of California Irvine, CA.

POSITIONS HELD

- 5/97-9/97 Post-graduate researcher, Scripps Institution of Oceanography, CA
- 9/97-12/99 National Research Council Post-doctoral fellow, Southwest Fisheries Science Center, CA
- 1/00-2/01 Post-doctoral researcher, Pacific Northwest Coastal Ecosystem Regional Study, University of Washington, WA
- 2/01-8/03 Research Fishery Biologist, Alaska Fisheries Science Center, WA
- 8/03-present Supervisory Research Fishery Biologist, Alaska Fisheries Science Center, WA
- 11/10-5/11 NOAA Rotational Assignment Program, National Ocean Service, Office of Response and Restoration "Arctic Oil Spill and Climate Change Assessment", WA

SOCIETY MEMBERSHIPS

PICES – North Pacific Marine Science Organization, Fisheries Science Committee Chair, Science Board

GRANTS

- 1992 Chapman Memorial Fund of the American Museum of Natural History, \$600
- 1993 Chapman Memorial Fund of the American Museum of Natural History, \$500
- 1995 Holcomb Scholarship, University of California Irvine, \$500
- 1996 Lerner-Gray Fund for Marine Research, \$860
- 1997 National Research Council Post-doctoral Fellowship, \$34,000
- 2005 North Pacific Research Board, "Productivity of capelin and pollock" \$70,017
- 2006 North Pacific Research Board, "Spatial and temporal patterns in Pacific cod reproductive maturity in the Bering Sea" \$39,432
- 2007 North Pacific Research Board, "A cooperative pollock acoustic biomass survey for management of fisheries interactions with Steller sea lions in the Aleutian Islands" \$244,022
- 2008 Minerals Management Service, "Beaufort Sea Marine Fish Survey" \$997,000
- 2010 North Pacific Research Board, "Small-scale Atka mackerel population abundance and movement in the western Aleutian Islands, an area of continuing Steller sea lion decline" \$350,000
- 2012 Synthesis of Arctic Research SOAR, "Fish of the Beaufort and Chukchi Seas: community structure, human use, and mechanisms determining similarities and differences" \$50,998
- 2013 Coastal Impacts Assistance Program, "SHELFZ: Shelf Habitat and EcoLogy of Fish and Zooplankton of the Chukchi Sea, Project #6 Offshore Oceanographic and Fish Survey". \$530,292
- 2013 North Pacific Research Board, "Small scale abundance and movement of Atka mackerel and other Steller sea lion groundfish prey in the Western Aleutian Islands" \$499,589

2013 Fisheries and the Environment (FATE), "Spatial and Temporal Variability of Walleye Pollock Fecundity Estimates for the Gulf of Alaska and eastern Bering Sea" \$312,238

PUBLICATIONS (REFEREED)

W.L. Hohman, J.L. Moore, D.J. Twedt, J.G. Mensik, E. Logerwell, 1995. Age-class separation of Blue-winged Ducks. *Journal of Wildlife Management* 59(4): 727-735.

E.A. Logerwell, N.B. Hargreaves, 1996. The distribution of seabirds relative to their fish prey off Vancouver Island: opposing results at large and small spatial scales. *Fisheries Oceanography* 5: 163-175

E.A. Logerwell, R.P. Hewitt and D.A. Demer, 1998. Scale-dependent spatial variance patterns and correlations of seabirds and prey in the southeastern Bering Sea as revealed by spectral analysis. *Ecography* 21: 212-223

G. Swartzman, R. Brodeur, J. Napp, D. Walsh, R. Hewitt, D. Demer, G. L. Hunt, Jr., E. Logerwell, 1999. Relating spatial distributions of acoustically determined patches of fish and plankton: data viewing, image analysis, and spatial proximity. *Canadian Journal of Fisheries and Aquatic Sciences* 56 (Suppl.1): 188-198

E.A. Logerwell, M.D. Ohman, 1999. Egg-brooding, body size and predation risk in planktonic marine copepods. *Oecologia* 121: 426-431

E.A. Logerwell, P.E. Smith 2001. Mesoscale eddies and survival of late stage Pacific sardine (*Sardinops sagax*) larvae. *Fisheries Oceanography* 10: 13-25

E.A. Logerwell, P.E. Smith 2001. GIS mapping of survivor's habitat of pelagic fish off California. In: Nishida, et al. (eds) *Proceedings of the First International Symposium on GIS in Fishery Science*. Fishery GIS Research Group, Saitama, Japan.

E.A. Logerwell 2001. Metabolic rate of California Pacific sardine estimated from energy losses during starvation. *Transactions of the American Fisheries Society* 130: 526-530.

E.A. Logerwell, B. Lavaniegos, and P.E. Smith 2001. Spatially-explicit bioenergetics of Pacific sardine in the Southern California Bight: are mesoscale eddies areas of exceptional prerecruit production? *Progress in Oceanography* 49: 391-406.

E.A. Logerwell, N. Mantua, P. Lawson, R.C. Francis, V. Agostini 2003 Tracking environmental processes in the coastal zone for understanding and predicting Oregon coho (*Oncorhynchus kisutch*) marine survival. *Fisheries Oceanography* 12:554-568.

P. Lawson, E.A. Logerwell, N. Mantua, R.C. Francis, and V.N. Agostini 2004. Environmental factors influencing freshwater survival and smolt production in Pacific Northwest coho salmon (*Oncorhynchus kisutch*) *Canadian Journal of Fisheries and Aquatic Sciences* 61: 360-373

Logerwell, E.A., and C.D. Wilson 2004. Species discrimination of fish using frequency-dependent acoustic backscatter. *ICES Journal of Marine Science* 61(6): 1004-1013

Logerwell, E.A., and L.E. Schaufler 2005. New data on proximate composition and energy density of Steller sea lion (*Eumetopias jubatus*) prey fills seasonal and geographic gaps in existing information. *Aquatic Mammals* 31(1): 62-82

Logerwell, E.A., K. Aydin, S. Barbeaux, E. Brown, M.E. Connors, S. Lowe, J.W. Orr, I. Ortiz, R. Reuter,

- and P. Spencer. 2005. Geographic patterns in the demersal ichthyofauna of the Aleutian Islands. *Fisheries Oceanography* 14 (Suppl. 1): 93-112
- Schauffler, L., E. Logerwell, J. Vollenwieder 2006. Geographical variation in Steller sea lion prey quality in Alaska. *Sea Lions of the World*, Alaska Sea Grant College Program. AK-SG-06-01.
- Logerwell, E.A., P.J. Stabeno, C.D. Wilson, A.B. Hollowed 2007 The effect of oceanographic variability and interspecific competition on juvenile pollock and capelin distributions of the Gulf of Alaska Shelf. *Deep Sea Research II* 54:2849-2686
- Logerwell, E.A., J. Duffy-Anderson, M. Wilson, D. McKelvey 2010. The influence of pelagic habitat selection and interspecific competition on productivity of juvenile walleye pollock and capelin in the Gulf of Alaska. *Fisheries Oceanography* 19:262-278.
- Rand, K.M., and E.A. Logerwell 2011. The first demersal trawl survey of benthic fish and invertebrates in the Beaufort Sea since the late 1970s. *Polar Biology* 34: 475-488.
- Logerwell, E.A., K.M. Rand and T.J. Weingartner 2011. Oceanographic characteristics of the habitat of benthic fish and invertebrates in the Beaufort Sea. *Polar Biology* 34 (11): 1783-1796
- Sigler, M.F., M. Renner, S.L. Danielson, L.B. Eisner, R.R. Lauth, K.J. Kuletz, E.A. Logerwell, G.L. Hunt Jr., 2011 Fluxes, fins and feathers: Relationships among Bering, Chukchi and Beaufort Seas in a time of change. *Oceanography* 24 (3): 205-265
- Logerwell, E.A. and M.C. Baker 2011, A conceptual model for determining oil fate and effects on habitat and wildlife in the Arctic in support of Natural Resource Damage Assessment planning. Proceedings of the 34th AMOP Technical Seminar on Environmental Contamination and Response, Calgary, Alberta, Canada. October 4-6, 2011.
- Moore, S.E., E.A. Logerwell, L. Eisner, E.V. Farley Jr., L.A. Harwood, K. Kuletz, J. Lovvorn, J.R. Murphy and L.T. Quakenbush. 2014. Marine Fishes, Birds and Mammals as Sentinels of Ecosystem Variability and Reorganization in the Pacific Arctic Region. J.M. Grebmeier and W. Maslowski (eds.), *The Pacific Arctic Region: Ecosystem Status and Trends in a Rapidly Changing Environment*, DOI 10.1007/978-94-017-8863-2_11
<http://www.springer.com/environment/global+change++climate+change/book/978-94-017-8862-5>
- Logerwell, E.A., M. Busby, C. Carothers, S. Cotton, J. Duffy-Anderson, E. Farley, P. Goddard, R. Heintz, B. Holladay, J. Horne, S. Johnson, B. Lauth, L. Moulton, D. Neff, B. Norcross, S. Parker-Stetter, J. Seigle, T. Sformo. 2015. Fish communities across a spectrum of habitats in the western Beaufort Sea and Chukchi Sea. *Progress in Oceanography*. 136: 115-132
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