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CURRICULUM VITAE

EDUCATION

- 1983-1988 B.S. in Biological Sciences with Honors, Stanford University, CA.
- 1991-1997 Ph.D. in Biology, Department of Ecology and Evolutionary Biology, University of California Irvine, CA.

POSITIONS HELD

- May-Sept 1997 Post-graduate researcher, Scripps Institution of Oceanography, CA
- 1997-1999 National Research Council Post-doctoral fellow, Southwest Fisheries Science Center, CA
- 2000-2001 Post-doctoral researcher, Pacific Northwest Coastal Ecosystem Regional Study, University of Washington, WA
- 2001-2003 Research Fishery Biologist, NOAA Alaska Fisheries Science Center, WA
- 2003-present Supervisory Research Fishery Biologist, NOAA Alaska Fisheries Science Center, WA
- Nov 2010 – May 2011: 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

GRANTS

- 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
- 2016 North Pacific Research Board, “Arctic Integrated Ecosystem Survey Phase II Upper Trophic Level” \$1,761,754
- 2022 North Pacific Research Board, “Pelagic-benthic decoupling? Ecosystem restructuring in the Northern Bering and Chukchi seas” \$796,318

PUBLICATIONS

- 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.
- Logerwell**, E.A., 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
- Logerwell**, E.A., 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
- Logerwell**, E.A., M.D. Ohman, 1999. Egg-brooding, body size and predation risk in planktonic marine copepods. *Oecologia* 121: 426-431
- Logerwell**, E.A., P.E. Smith 2001. Mesoscale eddies and survival of late stage Pacific sardine (*Sardinops sagax*) larvae. *Fisheries Oceanography* 10: 13-25
- Logerwell**, E.A., 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 Rearch Group, Saitama, Japan.
- Logerwell**, E.A. 2001. Metabolic rate of California Pacific sardine estimated from energy losses during starvation. *Transactions of the American Fisheries Society* 130: 526-530.
- Logerwell**, E.A., 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.
- Logerwell**, E.A., 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. Conners, 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
- Schaufler, 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
<http://dx.doi.org/10.1016/j.pocean.2015.05.013>
- Barbeaux, S. J., Fraser, D., Fritz, L. W., & **Logerwell, E. A.** 2017. Cooperative Multispecies Acoustic Surveys in the Aleutian Islands. *NOAA Tech. Memo. NMFS-AFSC-347*, (March).
<http://doi.org/10.7289/V5/TM-AFSC-347>
- Logerwell, E., Rand, K., Danielson, S., Sousa, L.,** 2018. Environmental drivers of benthic fish

- distribution in and around Barrow Canyon in the northeastern Chukchi Sea and western Beaufort Sea. *Deep Sea Res. Part II Top. Stud. Oceanogr.* 152, 170–181.
<https://doi.org/10.1016/j.dsr2.2017.04.012>
- Hollowed, A.B, Cheng, W., Loeng, H., **Logerwell**, E., Reist, J. 2017 Regional Assessment of Climate Change Impacts on Arctic Marine Ecosystems. In: Phillips, B.F. and Perez-Ramirez, M. (eds) *The Impacts of Climate Change on Fisheries and Aquaculture*. Wiley-Blackwell. 1104 pp. ISBN: 978-1-119-15404-4
- Sydeman, W. J., Thompson, S. A., Anker-nilssen, T., Arimitsu, M., Bennison, A., Bertrand, S., ... **Logerwell**, E., Zador, S. (2017). Best practices for assessing forage fish fisheries-seabird resource competition. *Fisheries Research*, 194(February), 209–221.
<http://doi.org/10.1016/j.fishres.2017.05.018>
- Rand, K., **Logerwell**, E., Bluhm, B., Chenelot, H., Danielson, S., Iken, K., Sousa, L., 2018. Using biological traits and environmental variables to characterize two Arctic epibenthic invertebrate communities in and adjacent to Barrow Canyon. *Deep. Res. Part II Top. Stud. Oceanogr.* 152, 154–169. <https://doi.org/10.1016/j.dsr2.2017.07.015>
- Barbeaux, S. J., Fritz, L., **Logerwell**, E. 2018. Exploring local fishery management through cooperative surveys in the Aleutian Islands. *Marine Policy* 90: 68-77.
- Rand, K., Mcdermott, S., **Logerwell**, E., Matta, M. E., Levine, M., Bryan, D. R., ... Loomis, T. (2019). Higher Aggregation of Key Prey Species Associated with Diet and Abundance of the Steller Sea Lion *Eumetopias jubatus* across the Aleutian Islands. *Marine and Coastal Fisheries : Dynamics , Management, and Ecosystem Science*, 11, 472–486. <https://doi.org/10.1002/mcf2.10096>
- Logerwell**, E.A., Busby, M., Mier, K.L., Tabisola, H., Duffy-Anderson, J., 2020. The effect of oceanographic variability on the distribution of larval fishes of the northern Bering and Chukchi seas. *Deep. Res. Part II Top. Stud. Oceanogr.* 177, 104784.
<https://doi.org/10.1016/j.dsr2.2020.104784>
- Logerwell**, E.A., Wang, M., Jörgensen, L.L., Rand, K., 2022. Winners and losers in a warming Arctic: Potential habitat gain and loss for epibenthic invertebrates of the Chukchi and Bering Seas, 2008–2100. *Deep Sea Res. Part II Top. Stud. Oceanogr.* 206, 105210.
<https://doi.org/10.1016/j.dsr2.2022.105210>
- Huntington, H.P., C. Strawhacker, J. Falke, E.M. Ward, L. Behnken, T.N. Curry, A.C. Herrmann, C.U. Itchuaqiyaq, J.S. Littell, E.A. **Logerwell**, D. Meeker, J.R. Overbeck, D.L. Peter, R. Pincus, A.A. Quintyne, S.F. Trainor, and S.A. Yoder, 2023: Ch. 29. Alaska. In: *Fifth National Climate Assessment*. Crimmins, A.R., C.W. Avery, D.R. Easterling, K.E. Kunkel, B.C. Stewart, and T.K. Maycock, Eds. U.S. Global Change Research Program, Washington, DC, USA.
<https://doi.org/10.7930/NCA5.2023.CH29>