

**List of References Cited in the Proposed Rule to Revise the Critical Habitat Designation
for Southern Resident Killer Whales (0648-BH95)**

- Au, W.W.L. 2002. Echolocation. Pages 358-367 in W.F. Perrin, B. Wursig and J.G.M. Thewissen eds. *Encyclopedia of Marine Mammals*. Academic Press, San Diego, California.
- Au, W.W.L., J.K. Horne and C. Jones. 2010. Basis of acoustic discrimination of Chinook salmon from other salmon by echolocating *Orcinus orca*. *Journal of the Acoustical Society of America* 128: 2225-2232.
- Baird, R.W. 2000. The killer whale: foraging specializations and group hunting. Pages 127-153 in J. Mann, R.C. Connor, P.L. Tyack and H. Whitehead eds. *Cetacean societies: field studies of dolphins and whales*. University of Chicago Press, Chicago, Illinois.
- Barrett-Lennard, L.G., J.K.B. Ford and K.A. Heise. 1996. The mixed blessing of echolocation: differences in sonar use by fish-eating and mammal-eating killer whales. *Animal Behaviour* 51: 553-565.
- Buckman, A.H., N. Veldhoen, G. Ellis, J.K.B. Ford, C.C. Helbing and P.S. Ross. 2011. PCB-Associated Changes in mRNA Expression in Killer Whales (*Orcinus orca*) from the NE Pacific Ocean. *Environmental Science & Technology* 45: 10194-10202.
- Chasco, B.E., I.C. Kaplan, A.C. Thomas, A. Acevedo-Gutiérrez, D.P. Noren, M.J. Ford, M.B. Hanson, J.J. Scordino, S.J. Jeffries, K.N. Marshall, A.O. Shelton, C. Matkin, B.J. Burke and E.J. Ward. 2017. Competing tradeoffs between increasing marine mammal predation and fisheries harvest of Chinook salmon. *Scientific Reports* 7: 14. 10.1038/s41598-017-14984-8.
- de Swart, R.L., P.S. Ross, J.G. Vos and A. Osterhaus. 1996. Impaired immunity in harbour seals (*Phoca vitulina*) exposed to bioaccumulated environmental contaminants: Review of long-term feeding study. *Environmental Health Perspectives* 104: 823-828.
- Fisheries and Oceans Canada. 2011. Recovery Strategy for the Northern and Southern Resident Killer Whales (*Orcinus orca*) in Canada. Fisheries & Oceans Canada. Species at Risk Act Recovery Strategy Series. x + 80 pp. Retrieved from https://www.registrelep-sararegistry.gc.ca/document/default_e.cfm?documentID=1341.
- Fisheries and Oceans Canada. 2018. Recovery Strategy for the Northern and Southern Resident Killer Whales (*Orcinus orca*) in Canada. Fisheries & Oceans Canada. Species at Risk Act Recovery Strategy Series. x + 84 pp. Retrieved from https://www.registrelep-sararegistry.gc.ca/document/default_e.cfm?documentID=1341.
- Ford, J.K.B. and G.M. Ellis. 2006. Selective foraging by fish-eating killer whales *Orcinus orca* in British Columbia. *Marine Ecology Progress Series* 316: 185-199.
- Ford, J.K.B., G.M. Ellis and K.C. Balcomb. 2000. *Killer whales: the natural history and genealogy of Orcinus orca in British Columbia and Washington State*. University of Washington Press, Seattle, WA.
- Ford, J.K.B., G.M. Ellis, L.G. Barrett-Lennard, A.B. Morton, R.S. Palm and K.C.B. III. 1998. Dietary specialization in two sympatric populations of killer whales (*Orcinus orca*) in coastal British Columbia and adjacent waters. *Canadian Journal of Zoology* 76: 1456-1471.
- Ford, M.J., J. Hempelmann, M.B. Hanson, K.L. Ayres, R.W. Baird, C.K. Emmons, J.I. Lundin, G.S. Schorr, S.K. Wasser and L.K. Park. 2016. Estimation of a Killer Whale (*Orcinus*

- orca*) Population's Diet Using Sequencing Analysis of DNA from Feces. PLoS One 11: e0144956.
- Gockel, C. and T. Mongillo. 2013. Potential Effects of PBDEs on Puget Sound and Southern Resident Killer Whales: A Report on the Technical Workgroups and Policy Forum. EPA and NOAA. 20 pp. Retrieved from <https://www.eopugetsound.org/articles/report-potential-effects-pbdes-puget-sound-and-southern-resident-killer-whales>.
- Grant, S.C.H. and P.S. Ross. 2002. Southern Resident Killer Whales at Risk: Toxic Chemicals in the British Columbia and Washington Environment. Canadian Technical Report of Fisheries and Aquatic Sciences 2412. xii + 111 p. pp. Retrieved from https://www.researchgate.net/publication/237636125_Southern_Resident_Killer_Whales_at_Risk_Toxic_Chemicals_in_the_British_Columbia_and_Washington_Environment.
- Hall, A.J., B.J. McConnell, L.H. Schwacke, G.M. Ylitalo, R. Williams and T.K. Rowles. 2018. Predicting the effects of polychlorinated biphenyls on cetacean populations through impacts on immunity and calf survival. *Environmental Pollution* 233: 407-418.
- Hanson, M.B., R.W. Baird, J.K.B. Ford, J. Hempelmann-Halos, D.M. Van Doornik, C.R. Candy, C.K. Emmons, G.S. Schorr, B. Gisborne, K.L. Ayres, S.K. Wasser, K.C. Balcomb, K. Balcomb-Bartok, J.G. Sneva and M.J. Ford. 2010. Species and stock identification of prey consumed by endangered southern resident killer whales in their summer range. *Endangered Species Research* 11: 69-82.
- Hanson, M.B., C.K. Emmons, M.J. Ford, K. Parsons, J. Hempelmann, D.M.V. Doornik, G.S. Schorr, J. Jacobsen, M. Sears, J.G. Sneva, R.W. Baird and L. Barre. In prep. Seasonal diet of Southern Resident Killer Whales.
- Hanson, M.B., E.J. Ward, C.K. Emmons, M.M. Holt and D.M. Holzer. 2017. Assessing the movements and occurrence of Southern Resident Killer Whales relative to the U.S. Navy's Northwest Training Range Complex in the Pacific Northwest. Prepared for: U.S. Navy, U.S. Pacific Fleet, Pearl Harbor, HI. Prepared by: National Oceanic and Atmospheric Administration, Northwest Fisheries Science Center under MIPR N00070-15-MP-4C363. 30 June 2017. 23 pp.
- Industrial Economics, Incorporated [IEC]. 2019. Economic impacts associated with the proposed expansion of critical habitat designation for the Southern Resident population of killer whales: Draft report. Industrial Economics, Incorporated. 101 pp.
- Krahn, M.M., M.J. Ford, W.F. Perrin, P.R. Wade, R.P. Angliss, M.B. Hanson, B.L. Taylor, G.M. Ylitalo, M.E. Dahlheim, J.E. Stein and R.S. Waples. 2004. 2004 status review of southern resident killer whales (*Orcinus orca*) under the Endangered Species Act. U.S. Department of Commerce, NOAA Technical Memorandum, NMFS-NWFSC-62. 73 pp. Retrieved from <https://repository.library.noaa.gov/view/noaa/3402>.
- Krahn, M.M., P.R. Wade, S.T. Kalinowski, M.E. Dahlheim, B.L. Taylor, M.B. Hanson, G.M. Ylitalo, R.P. Angliss, J.E. Stein and R.S. Waples. 2002. Status Review of Southern Resident Killer Whales (*Orcinus orca*) under the Endangered Species Act. U.S. Department of Commerce, NOAA Technical Memorandum, NMFS-NWFSC-54. 133 pp. Retrieved from https://www.westcoast.fisheries.noaa.gov/publications/protected_species/marine_mammals/killer_whales/esa_status/krahn2002tm.pdf.
- Lundin, J.I., R.L. Dills, G.M. Ylitalo, M.B. Hanson, C.K. Emmons, G.S. Schorr, J. Ahmad, J.A. Hempelmann, K.M. Parsons and S.K. Wasser. 2016. Persistent Organic Pollutant Determination in Killer Whale Scat Samples: Optimization of a Gas

- Chromatography/Mass Spectrometry Method and Application to Field Samples. Archives of Environmental Contamination and Toxicology 70: 9-19.
- Møhl, B., W.W.L. Au, J. Pawloski and P.E. Nachtigall. 1999. Dolphin hearing: Relative sensitivity as a function of point of application of a contact sound source in the jaw and head region Journal of the Acoustical Society of America 105: 3421-3424.
- Mongillo, T.M., G.M. Ylitalo, L.D. Rhodes, S.M. O'Neill, D.P. Noren and M.B. Hanson. 2016. Exposure to a mixture of toxic chemicals: Implications for the health of endangered Southern Resident killer whales. U.S. Department of Commerce, NOAA Technical Memorandum, NMFS-NWFSC-135. 107 pp. Retrieved from <https://repository.library.noaa.gov/view/noaa/12818>.
- National Marine Fisheries Service [NMFS]. 2006. Designation of Critical Habitat for Southern Resident Killer Whales: Biological Report. National Marine Fisheries Service, Northwest Region. 44 pp. Retrieved from https://www.westcoast.fisheries.noaa.gov/publications/protected_species/marine_mammals/killer_whales/esa_status/srkw-ch-bio-rpt.pdf.
- NMFS. 2008. Recovery Plan for Southern Resident Killer Whales (*Orcinus orca*). National Marine Fisheries Service, Northwest Region. 251 pp. Retrieved from https://www.westcoast.fisheries.noaa.gov/publications/protected_species/marine_mammals/killer_whales/esa_status/srkw-recov-plan.pdf.
- NMFS. 2014. Southern Resident Killer Whales: 10 Years of Conservation and Research. National Marine Fisheries Service. 24 pp. Retrieved from https://www.nwfsc.noaa.gov/news/features/killer_whale_report/index.cfm.
- NMFS. 2016. Southern Resident Killer Whale (*Orcinus orca*) 5-Year Review: Summary and Evaluation. National Marine Fisheries Service, West Coast Region. 72 pp. Retrieved from https://www.westcoast.fisheries.noaa.gov/publications/status_reviews/marine_mammals/kw-review-2016.pdf.
- NMFS. 2018. 2018 Revisions to: Technical Guidance for Assessing the Effects of Anthropogenic Sound on Marine Mammal Hearing (Version 2.0): Underwater Thresholds for Onset of Permanent and Temporary Threshold Shifts. U.S. Department of Commerce, NOAA Technical Memorandum, NMFS-OPR-59. 167 pp. Retrieved from <https://repository.library.noaa.gov/view/noaa/17892>.
- NMFS. 2019a. Proposed Revision of the Critical Habitat Designation for Southern Resident Killer Whales: Draft Biological Report (to accompany the Proposed Rule). 92 + Appendix pp.
- NMFS. 2019b. Proposed Revision of the Critical Habitat Designation for Southern Resident Killer Whales: Draft ESA Section 4(b)(2) Report (to accompany the Proposed Rule). 30 + Appendices pp.
- Noren, D.P. 2011. Estimated field metabolic rates and prey requirements of resident killer whales. Marine Mammal Science 27: 60-77.
- Noren, D.P. and D.D.W. Hauser. 2016. Surface-Based Observations Can Be Used to Assess Behavior and Fine-Scale Habitat Use by an Endangered Killer Whale (*Orcinus orca*) Population. Aquatic Mammals 42: 163-183.
- O'Neill, S.M., G.M. Ylitalo and J.E. West. 2014. Energy content of Pacific salmon as prey of northern and southern resident killer whales. Endangered Species Research 25: 265-281. 10.3354/esr00631.

- Pacific Fishery Management Council [PFMC]. 2016. Pacific Coast Salmon Fishery Management Plan for Commercial and Recreational Salmon Fisheries off the Coasts of Washington, Oregon, and California, as Amended through Amendment 19. 91 pp. Retrieved from http://www.pcouncil.org/wp-content/uploads/2016/03/FMP-through-A-19_Final.pdf.
- Pashin, Y.V. and L.M. Bakhitova. 1979. Mutagenic and Carcinogenic Properties of Polycyclic Aromatic Hydrocarbons. *Environmental Health Perspectives* 30: 185-189.
- Reijnders, P.J. 1986. Reproductive failure in common seals feeding on fish from polluted coastal waters. *Nature* 324: 456-457.
- Schwacke, L.H., E.O. Voit, L.J. Hansen, R.S. Wells, G.B. Mitchum, A.A. Hohn and P.A. Fair. 2002. Probabilistic risk assessment of reproductive effects of polychlorinated biphenyls on bottlenose dolphins (*Tursiops truncatus*) from the southeast United States coast. *Environmental Toxicology and Chemistry* 21: 2752-2764.
- Shelton, A.O., W.S. Satterthwaite, E. Ward, B.E. Feist and B. Burke. 2018. Using hierarchical models to estimate stock-specific and seasonal variation in ocean distribution, survivorship, and aggregate abundance of fall run Chinook salmon. *Canadian Journal of Fisheries and Aquatic Science* <https://doi.org/10.1139/cjfas-2017-0204>. 15 April 2018. <https://doi.org/10.1139/cjfas-2017-0204>.
- Szymanski, M.D., D.E. Bain, K. Kiehl, S. Pennington, S. Wong and K.R. Henry. 1999. Killer whale (*Orcinus orca*) hearing: auditory brainstem response and behavioral audiograms. *Journal of the Acoustical Society of America* 106: 1134-1141.
- Ylitalo, G.M., J.E. Stein, T. Hom, L.L. Johnson, K.L. Tilbury, A.J. Hall, T. Rowles, D. Greig, L.J. Lowenstine and F.M.D. Gulland. 2005. The role of organochlorines in cancer-associated mortality in California sea lions (*Zalophus californianus*). *Marine Pollution Bulletin* 50: 30-39.