

## REFERENCES

- Allen, B.M. and R.P. Angliss. 2013. Alaska marine mammal stock assessments, 2013. NOAA Technical Memorandum NMFS-AFSC-277, National Marine Fisheries Service: 304.
- Barlow, J., M.C. Ferguson, E.A. Becker, J.V. Redfern, K.A. Forney, I.L. Vilchis, P.C. Fiedler, T. Gerrodette, L.T. Ballance. 2009. Predictive Modeling of Marine Mammal Density from existing survey data and model validation using upcoming surveys. NOAA Technical Memorandum. NOAA-TMNMFS-SWFSC-XXX. 196pp. Strategic Environmental Research and Development Program (SERDP) Density Model Accessed 3-26-2015 at: [http://seamap.env.duke.edu/serdp/serdp\\_map.php](http://seamap.env.duke.edu/serdp/serdp_map.php)
- Blackwell, S.B. and C.R. Greene. 2002. Acoustic measurements in Cook Inlet, Alaska, during August 2001. Greeneridge Report 271-1, Prepared by Greeneridge Sciences, Inc. for National Marine Fisheries Service: 42.
- Becker, E. 2016. June 2016 ENSO discussion: The new neutral. Climate . Gov. Pub June 9 2016.
- Calambokidis, J., J.L. Laake and A. Klimek. 2012. Updated analysis of abundance and population structure of seasonal gray whales in the Pacific Northwest, 1998-2010. Paper SC/M12/AWMP2-Rev submitted to the IWC Scientific Committee.
- Calambokidis, Steiger, G., Curtice, C., Harrison, J., Ferguson, M., Becker, E., DeAngelis, M., and Van Parijs, S. 2015. Biologically Important Areas for Selected Cetaceans Within U.S. Waters – West Coast Region. *Aquatic Mammals* 41(1), 39-53.
- CalTrans. 2012. Compendium of Pile Driving Sound Data. Sacramento, California. Updated October 2012, posted March 20, 2013. Available at [http://www.dot.ca.gov/hq/env/bio/fisheries\\_bioacoustics.htm](http://www.dot.ca.gov/hq/env/bio/fisheries_bioacoustics.htm).
- Carretta *et al.* (2014), U.S. Pacific Marine Mammal Draft Stock Assessments: 2014. NOAA Technical Memorandum NOAA-TM-NMFS-SWFSC-XXX. NMFS
- Carretta *et al.* 2011. U.S. Pacific Marine Mammal Stock Assessments: 2011. NOAA-TM-NMFS-SWFSC-488 U. S. DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration National Marine Fisheries Service Southwest Fisheries Science Center
- Carretta, J.V., E. Oleson, D.W. Weller, A.R. Lang, K.A. Forney, J. Baker, et al. 2013. U.S. Pacific Marine Mammal Stock Assessments, 2013. NOAA-TM-NMFS-SWFSC-532. National Marine Fisheries Service.
- Carretta, J.V., K.A. Forney, E. Oleson, K. Martien, M.M. Muto, M.S. Lowry, J. Barlow, J. Baker, B. Hanson, D. Lynch, L. Carswell, R.L. Brownell Jr., J. Robbins, D.K. Mattila, K. Ralls, and M.C. Hill. 2010. Draft U.S. Pacific Marine Mammal Stock Assessments: 2010. NOAA-TM-NMFS-

SWFSC-XXX. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, Southwest Fisheries Science Center.

Clark, C.W., W.T. Ellison, B.L. Southall, L. Hatch, S.M. Van Parijs, A. Frankel, and D. Ponirakis. 2009. Acoustic masking in marine ecosystems: intuitions, analysis, and implication. *Marine Ecology Progress Series* **395**:201-222.

Cox, T.M., T.J. Ragen, A.J. Read, E. Vos, R.W. Baird, K. Balcomb, et al. 2006. Understanding the impacts of anthropogenic sound on beaked whales. *Journal of Cetacean Research and Management* **7** (3):177-187.

Dahlheim, M.E., A. Schulman-Janiger, N. Black, R. Ternullo, D. Ellifrit, and K.C. Balcomb. 2008. Eastern temperate North Pacific offshore killer whales (*Orcinus orca*): Occurrence, movements, and insights into feeding ecology. *Marine Mammal Science* **24** (3):719-729.

Everitt, R.D., C.H. Fiscus, and R.L. DeLong. 1980. Northern Puget Sound Marine Mammals. DOC/EPA Interagency Energy/ Environ. R&D Program. Doc. #EPA-6009/7-80-139, U.S. Environmental Protection Agency, Washington, D.C. 134 p.

Finneran, J.J., C.E. Schlundt, D.A. Carder, J.A. Clark, J.A. Young, J.B. Gaspin, and S.H. Ridgway. 2000. Auditory and behavioral responses of bottlenose dolphins (*Tursiops truncatus*) and a beluga whale (*Delphinapterus leucas*) to impulsive sounds resembling distant signatures of underwater explosions. *Journal of the Acoustical Society of America* **108** (1):417-431.

Finneran, J.J., C.E. Schlundt, R. Dear, D.A. Carder, and S.H. Ridgway. 2002. Temporary shift in masked hearing thresholds in odontocetes after exposure to single underwater impulses from a seismic watergun. *Journal of the Acoustical Society of America* **111** (6):2929.

Finneran, J.J., D.A. Carder, C.E. Schlundt, and S.H. Ridgway. 2005. Temporary threshold shift in bottlenose dolphins (*Tursiops truncatus*) exposed to mid-frequency tones. *Journal of the Acoustical Society of America* **118** (4):2696-2705.

Foote, A.D., R.W. Osborne, and A.R. Hoelzel. 2004. Whale-call response to masking boat noise. *Nature* **428**:910.

Ford, J.K.B., G. M. Ellis, and K. C. Balcomb. 1994. Killer Whales: The Natural History and Genealogy of *Orcinus orca* in British Columbia and Washington State. University of British Columbia Press, Vancouver, BC, and University of Washington Press, Seattle.

Gordon, J., D. Gillespie, J. Potter, A. Frantzis, M.P. Simmonds, R. Swift, and D. Thompson. 2004. A review of the effects of seismic surveys on marine mammals. *Marine Technology Society Journal* **37** (4):16-34.

Green, G.A., J.J. Brueggeman, R.A. Grotefendt, C.E. Bowlby, M.L. Bonnel, and K.C. Balcomb III. 1992. Cetacean distribution and abundance off Oregon and Washington, 1989-1990. Pp. 1-100 in Oregon and Washington Marine Mammal and Seabird Surveys. Brueggeman, J.J. (ed).

Final report prepared by Ebasco Environmental, Bellevue WA; Ecological Consulting, Inc., Portland OR; and Center for Whale Research, Friday Harbor WA for Minerals Management Service, Pacific OCS Region.

Griffith, David. 2015. Fish Biologist, U.S. Army Corps of Engineers, Portland District. Personal Communication. March 24, 2015.

Halpin, P.N., A.J. Read, E. Fujioka, B.D. Best, B. Donnelly, L.J. Hazen, C. Kot, K. Urian, E. LaBrecque, A. Dimatteo, J. Cleary, C. Good, L.B. Crowder, and K.D. Hyrenbach. 2009. OBIS-SEAMAP: The world data center for marine mammal, sea bird, and sea turtle distributions. *Oceanography* 22(2):104-115).

Hastings, M.C. and A.N. Popper. 2005. Effects of sound on fish. Prepared by Jones & Stokes for the California Department of Transportation.

Hildebrand, J. A. 2009. Anthropogenic and natural sources of ambient noise in the ocean. *Mar. Ecol. Prog. Ser.* 395, 5–20.

Hobbs, R. C., and J M. Waite. 2010. Abundance of harbor porpoise (*Phocoena phocoena*) in three Alaskan regions, corrected for observer errors due to perception bias and species misidentification, and corrected for animals submerged from view. *Fish. Bull.*, U.S. 108(3):251-267

Holt, M.M., D.P. Noren, V. Veirs, C.K. Emmons, and S. Veirs. 2009. Speaking up: Killer whales (*Orcinus orca*) increase their call amplitude in response to vessel noise. *Journal of the Acoustical Society of America* **125** (1):EL27-32.

Illingworth and Rodkin, Inc. 2007. Compendium of Pile Driving Data report to the California Department of Transportation. Available at [http://www.dot.ca.gov/hq/env/bio/files/pile\\_driving\\_snd\\_comp9\\_27\\_07.pdf](http://www.dot.ca.gov/hq/env/bio/files/pile_driving_snd_comp9_27_07.pdf)

Illingworth and Rodkin. 2012. Naval Base Kitsap at Bangor Test Pile Program: Acoustic monitoring report. Prepared by Illingworth and Rodkin, Inc. for Department of the Navy.

ISO (International Organization for Standardization). 2003. Acoustics – Description, measurement and assessment of environmental noise – Part 1: Basic quantities and assessment procedures (ISO 1996-1:2003(E)). International Organization for Standardization, Geneva.

Jefferson, T., Leatherwood, S., and Webber, M. 1993. *Marine Mammals of the World*. Rome. ENEP – FAO.

Kastak et al. 1999. Underwater temporary threshold shift induced by octave-band noise in three species of pinniped. *J. Acoust. Soc. Am.* 106 (2):1142-1148.

Kryter, K.D. 1985. *The Effects of Noise on Man*. Academic Press, New York.

- Lagerquist, B.A. and B.R. Mate. 2002. Humpback whale sightings off the Oregon and northern California coast, during summer 2002. Presented at the U.S. GLOBEC NEP-CCS SI meeting, Corvallis, Oregon, November 19-21. Poster presentation.
- Lerma, D. 2014. Naval Base Point Loma Fleet Logistics Center Fuel Pier Replacement Project: Acoustic, marine mammal, green sea turtle, and California least tern monitoring report. Prepared by Tierra Data Inc. for Naval Facilities Engineering Command Southwest: 250.
- Lucke, K., Lepper, P. A., Blanchet, M.-A., and Siebert, U. (2009). "Temporary shift in masked hearing thresholds in a harbor porpoise (*Phocoena phocoena*) after exposure to seismic airgun stimuli," *J. Acoust. Soc. Am.* 125(6), 4060–4070
- Lusseau, D. and L. Bejder. 2007. The long-term consequences of short-term responses to disturbance experiences from whalewatching impact assessment. *International Journal of Comparative Psychology* **201** (2-3):228-236
- Mitson, R.B. (ed.). 1995. Underwater Noise of Research Vessels: Review and Recommendations. *ICES Coop. Res. Rep.* No. 209, 61.
- Morton and Symonds., 2002. Displacement of *Orcinus Orca* by high amplitude sound in British Columbia. *ICES J. Mar. Sci.* 21:217-242
- Moulton et al 2005. Effects of offshore oil development on local abundance and distribution of ringed seals of the Alaskan Beaufort Sea . *Marine Mammal Science* 21:217-242
- National Oceanic and Atmospheric Administration (NOAA). 2013a. Alaska Marine Mammal Stock Assessments, Steller Sea Lion (*Eumetopias jubatus*): Eastern U. S. Stock. NOAA-TM-AFSC-277. Allen, B.M., and R.P. Angliss. Revised 6/10/2013.
- Navy (Facilities Engineering Command Northwest). 2014. Proxy Source Sound Levels and Potential Bubble Curtain Attenuation for Acoustic Modeling of Nearshore Marine Pile Driving at Navy Installations in Puget Sound. Silverdale, WA.
- Naval Base Kitsap. 2014. Request for an Incidental Harassment Authorization Under The Marine Mammal Protection Act for Pile Removal and Replacement Naval Base Kitsap Bremerton, Construction Year 2, October 1, 2014 through March 1, 2015. Submitted to National Marine Fisheries Service, National Oceanographic and Atmospheric Administration.
- Hanser, S., Becker, E., and Kumar A. Navy, 2014. Pacific Navy Marine Species Density Database. NAVFAC Pacific Technical Report
- NMFS. 2008a. Recovery Plan for Southern Resident Killer Whales (*Orcinus orca*). National Marine Fisheries Service Northwest Regional Office. January 17, 2008.
- NMFS. 2008b. Recovery Plan for the Steller Sea Lion (*Eumetopias jubatus*). Revision. National Marine Fisheries Service, Silver Spring, MD.

- NMFS. 2011b. Department of Commerce, National Oceanic and Atmospheric Administration. Takes of Marine Mammals Incidental to Specified Activities; Taking Marine Mammals Incidental to a Wharf Construction Project. *Federal Register*, Vol. 76, No. 245, Wednesday, December 21, 2011 (79410).
- NOAA. 2013b. Alaska Marine Mammal Stock Assessments, Killer Whale (*Orcinus orca*): West Coast Transient Stock Assessment. NOAA-TM-AFSC-277 Allen, B. M., and R. P. Angliss. Revised 6/10/2013.
- NOAA. 2014a. NOAA Technical Memorandum NMFS. U.S. Pacific Marine Mammal Stock Assessments, 2013. J.V. Carretta, and others. NOAA-TM-NMFS-SWFSC-532. Southwest Fisheries Science Center.
- NOAA. 2014b. NOAA Technical Memorandum NMFS. U.S. Pacific Marine Mammal Stock Assessments, Harbor Porpoise (*Phocoena phocoena*): Northern Oregon/Washington Coast Stock. Revised 6/4/2014.
- NOAA. 2014c. NOAA Technical Memorandum NMFS. U.S. Pacific Marine Mammal Stock Assessments, Gray Whale (*Eschrichtius robustus*): Eastern North Pacific Stock. Revised 7/15/2014
- Nowacek, D.P., Thorne, L.H., Johnston, D.W. & Tyack, P.L. (2007). Responses of cetaceans to anthropogenic noise. *Mammalian Review*, 37(2), 81-115.
- NRC (National Research Council). 2003. Ocean noise and marine mammals. National Academy of Sciences: 220.
- Oregon Department of Fish and Wildlife (ODFW). 2007. Information provided for Corps Biological Assessment, specific source not cited.
- ODFW. 2014. Bryan Wright, Biometrician. Marine Mammal Research Program. Corvallis, OR. Excel data and narrative via email dated 9/26/2014.
- ODFW. 2015. Bryan Wright, Biometrician. Marine Mammal Research Program. Corvallis, OR. Email dated 4/27/2015.
- Oleson, E.M., J. Calambokidis, E. Falcone, G. Schorr, and J. A. Hildebrand. 2009. Acoustic and visual monitoring for cetaceans along the outer Washington coast. Technical Report NPS-OC-09-001. Naval Postgraduate School, Monterey, CA.
- Pearson, W.H., J.R. Skalski, and C.I. Malme. 1992. Effects of sounds from a geophysical survey device on behavior of captive rockfish (*Sebastes* spp.). *Canadian Journal of Fisheries and Aquatic Sciences* 49:1343-1356.
- Popper and Hastings. 2009. The effects of anthropogenic sources of sound on fishes. *Journal of Fish Biology* (2009) 75, 455–489

Reyff, J. 2007. Compendium of pile driving sound data. Prepared by Illingworth & Rodkin, Inc. for the California Department of Transportation: 129.

Richardson, W.J., C.R. Greene, C.I. Malme, and D.H. Thomson. 1995. Marine Mammals and Noise. Academic Press, Inc., San Diego, CA.

Ridgway, S.H., D.A. Carder, R.R. Smith, T. Kamolnick, C.E. Schlundt, and W.R. Elsberry. 1997. Behavioral responses and temporary shift in masked hearing threshold of bottlenose dolphins, *Tursiops truncatus*, to 1-second tones of 141 to 201 dB re 1  $\mu$ Pa. Technical Report 1751, Naval Command, Control and Ocean Surveillance Center: 32.

Schlundt, C.E., J.J. Finneran, D.A. Carder, and S.H. Ridgway. 2000. Temporary shift in masked hearing thresholds of bottlenose dolphins, *Tursiops truncatus*, and white whales, *Delphinapterus leucas*, after exposure to intense tones. Journal of the Acoustical Society of America **107** (6):3496-3508.

Scholik, A.R. and H.Y. Yan. 2002. The effects of noise on the auditory sensitivity of the bluegill sunfish, *Lepomis macrochirus*. Comparative Biochemistry and Physiology Part A: Molecular & Integrative Physiology 133 (1):43-52..

Skalski, J.R., W.H. Pearson, and C.I. Malme. 1992. Effects of sounds from a geophysical survey device on catch-per-unit-effort in a hook-and-line fishery for rockfish (*Sebastes* spp.). Canadian Journal of Fisheries and Aquatic Sciences 49:1357-1365.

Southall, B.L., A.E. Bowles, W.T. Ellison, J.J. Finneran, R.L. Gentry, C.R. Greene Jr., D. Kastak, D.R. Ketten, J.H. Miller, P.E. Nachtigal, W.J. Richardson, J.A. Thomas, and P.L. Tyak. 2007. Marine Mammal Noise Exposure Criteria: Initial Scientific Recommendations. Aquatic Mammals, Volume 33(4).

Thorson, P. and J.A. Reyff. 2006. San Francisco-Oakland Bay Bridge East Span Seismic Safety Project: marine mammal and acoustic monitoring for the marine foundations at piers E2 and T1, January-September 2006. Prepared by SRS Technologies and Illingworth & Rodkin, Inc. for the California Department of Transportation: 51.

Urlick, R.J. 1983. Principles of Underwater Sound. Peninsula Publishing, Los Altos, CA. Viada, S.T., R.M. Hammer, R. Racca, D. Hannay, M.J. Thompson, B.J. Balcom, and

Viada S.T., Hammer R.M., Racca R., Hannay D., Thompson M.J., Balcolm B.J., Phillips N.W. (2008). Review of potential impacts on sea turtles from underwater explosive removal of offshore structures. Environmental Impact Assessment Review 28: 267–285.

Wartzok, D., A.N. Popper, J. Gordon, and J. Merrill. 2003. Factors affecting the responses of marine mammals to acoustic disturbance. Marine Technology Society Journal **37** (4):6-15.

Washington Department of Fish and Wildlife (WDFW). 2014. Steven Jeffries. Marine Mammal Investigations. Lakewood, WA (Excel data and narrative via email 10/6/2014).

Weilgart, L.S. 2007. A brief review of known effects of noise on marine mammals. *International Journal of Comparative Psychology* **201** (2-3):159-168.

Wilson, K. 2015. Orca pod struggles to thrive: Whales spend part of the year on outer coast. *The Daily Astorian*. EO Media Group. Published March 23, 2015.

Wilson B, Dill L.M 2002 Herring respond to simulated odontocete echolocation sounds *Can. J. Fish. Aquat. Sci* 59 543–553.