

Weyerhaeuser Log Export Dock Project IHA References

- Ahroon, W.A., R.P. Hamernik, and S.-F., Lei. 1996. The effects of reverberant blast waves on the auditory system. *Journal of the Acoustical Society of America* 100:2247-2257.
- American National Standards Institute (ANSI). 2005. Measurement of Sound Pressure Levels in Air (ANSI S1.13-2005). New York: Acoustical Society of America.
- Anchor QEA. 2021. Waterfront Park Reconstruction Project – Request for Incidental Harassment Authorization. Prepared for the City of Seattle. September 2021.
- ANSI. 1995. Bioacoustical Terminology (ANSI S3.20-1995). Acoustical Society of America, Woodbury, NY.
- ANSI. 1986. Methods of measurement for impulse noise 3 (ANSI S12.7-1986). Acoustical Society of America, Woodbury, NY.
- Archer, F.I., S.L. Mesnick, and A.C. Allen. 2010. Variation and predictors of vessel response behavior in a tropical dolphin community. NOAA Technical Memorandum NMFS-SWFSC-457, National Marine Fisheries Service, 60 p.
- Au, W.W.L. and M. Hastings. 2008. Principles of Marine Bioacoustics. Springer-Verlag, New York.
- Blecha, F. 2000. Immune system response to stress. In *The biology of animal stress: basic principles and implications for animal welfare*. (pp. 111-121). Wallingford UK: CABI Publishing.
- Caltrans. 2020. Technical Guidance for the Assessment of Hydroacoustic Effects of Pile Driving on Fish. Division of Environmental Analysis. Sacramento, California. October 2020.
- Carlson, T.J., D.L. Woodruff, G.E. Johnson, N.P. Kohn, G.R. Ploskey, M.A. Weiland, et al. 2005. Hydroacoustic measurements during pile driving at the Hood Canal Bridge, September through November 2004. PNWD-3621, Prepared by Battelle Marine Sciences Laboratory for the Washington State Department of Transportation: 165.
- Carretta, J., M.M. Muto, J. Barlow, J. Baker, K.A. Forney, and M. Lowry. 2002. U.S. Pacific Marine Mammal Stock Assessments: 2002. NOAA Tech. Mem. NOAA-TMNMFSSWFSC-346. 286 pp
- Casper, B.M., Halvorsen, M.B., Carlson, T.J., Popper, A.N., 2017. Onset of barotrauma injuries related to number of pile driving strike exposures in hybrid striped bass. *The Journal of the Acoustical Society of America* 141, 4380-4387.
- Casper, B.M., M.B. Halvorsen, F. Matthews, T.J. Carlson, and A.N. Popper. 2013. Recovery of barotrauma injuries resulting from exposure to pile driving sound in two sizes of hybrid striped bass. *PLoS ONE* 8 (9):e73844.

- Cott, P.A., A.N. Popper, D.A. Mann, J.K. Jorgenson, and B.W. Hanna. 2012. Impacts of riverbased air gun seismic activity on northern fishes. *Advances in Experimental Medicine and Biology* 730:367-369.
- Croll, D.A., C.W. Clark, J. Calambokidis, W.T. Ellison, and B.R. Tershy. 2001. Effect of anthropogenic low-frequency noise on the foraging ecology of Balaenoptera whales. *Animal Conservation* 4(1):13-27.
- Denes, S.L., G.J. Warner, M.E. Austin, and A.O. MacGillivray. 2016. Hydroacoustic Pile Driving Noise Study – Comprehensive Report. Document 001285, Version 2.0. Technical report by JASCO Applied Sciences for Alaska Department of Transportation & Public Facilities.
- Ellison, W.T., B. Southall, C.W. Clark, and A.S. Frankel. 2012. A new context-based Approach to assess marine mammal behavioral responses to anthropogenic sounds. *Conservation Biology* 26(1):21-28.
- Everitt, R.D., C.H. Fiscus, and R.L. DeLong. 1980. Northern Puget Sound marine mammals. Interagency Energy/Environment R&D Program Report EPA-600/7-80-139, Prepared by National Marine Fisheries Service for Environmental Protection Agency 150p. Finneran, J.J. 2015. Noise-induced hearing loss in marine mammals: A review of temporary threshold shift studies from 1996 to 2015. *Journal of the Acoustical Society of America* 138:1702-1726.
- Fair, P.A. and P.R. Becker. 2000. Review of stress in marine mammals. *Journal of Aquatic Ecosystem Stress and Recovery* 7 (4):335-354.
- Fay, R.R. 2009. Soundscapes and the sense of hearing of fishes. *Integrative Zoology* 4: 26-32.
- Fay, R.R., A.N. Popper, and J.F. Webb. 2008. Introduction to fish bioacoustics. In: Webb, J.F., R.R. Fay, and A.N. Popper, eds. *Fish Bioacoustics*. Springer Handbook of Auditory Research 32:1-15.
- Fewtrell, J.L., and R.D. McCauley. 2012. Impact of air gun noise on the behavior of marine fish and squid. *Marine Pollution Bulletin* 64: 984-993.
- Finneran, J.J. 2015. Auditory weighting functions and TTS/PTS exposure functions for marine mammals exposed to underwater noise. Technical Report. San Diego: SPAWAR.
- Finneran, J.J., Schlundt, C.E., 2013. Effects of fatiguing tone frequency on temporary threshold shift in bottlenose dolphins (*Tursiops truncatus*). *The Journal of the Acoustical Society of America* 133, 1819-1826. Finneran, J.J. and A.K. Jenkins. 2012. Criteria and thresholds for U.S. Navy acoustic and explosive effects analysis. Technical Report, Space and Naval Warfare Systems Center Pacific, U.S. Navy: 64.
- Finneran, J.J., Carder, D.A., Schlundt, C.E., Dear, R.L., 2010. Growth and recovery of temporary threshold shift at 3 kHz in bottlenose dolphins: Experimental data and mathematical models. *The Journal of the Acoustical Society of America* 127, 3256-3266. 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* 111:2929-2940.
- 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* 111:2929-2940.
- 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* 108:417-431.
- Greenbusch (The Greenbusch Group). 2019. Phase 2 Hydroacoustic Monitoring Final Report for Project Number 9074 – Seattle Ferry Terminal at Colman Dock MACC. Submitted to Pacific Pile and Marine.
- Halvorsen, M.B., D.G. Zeddies, W.T. Ellison, D.R. Chicoine, and A.N. Popper. 2012a. Effects of midfrequency active sonar on hearing in fish. *Journal of the Acoustical Society of America* 131 (1):599-607.
- Halvorsen, M.B., B.M. Casper, C.M. Woodley, T.J. Carlson, and A.N. Popper. 2012b. Threshold for onset of injury in chinook salmon from exposure to impulsive pile driving sounds. *PLoS ONE* 7 (6).
- Hastings, M.C., and A.N. Popper. 2005. Effects of sound on fish. Technical report for Jones and Stokes to California Department of Transportation.
- Hemilä, S., S. Nummela, A. Berta, and T. Reuter. 2006. High-frequency hearing in phocid and otariid pinnipeds: An interpretation based on inertial and cochlear constraints (L). *Journal of the Acoustical Society of America* 120(6):3463-3466.
- Henderson, D., B. Hu, and E. Bielefeld. 2008. Patterns and mechanisms of noise-induced cochlear pathology. pp. 195-217 In Schacht, J., A.N. Popper, and R.R Fay (Eds.) *Auditory Trauma, Protection, and Repair*. New York: Springer.
- Holberton, R.L., Helmuth, B. and Wingfield, J.C., 1996. The corticosterone stress response in gentoo and king penguins during the non-fasting period. *Condor*, pp.850-854.
- Hood, L.C., Boersma, P.D. and Wingfield, J.C., 1998. The adrenocortical response to stress in incubating Magellanic penguins (*Spheniscus magellanicus*). *The Auk*, 115(1), pp.76-84.
- Jeffries, S., H. Huber, J. Calambokidis, and J. Laake. 2003. Trends and status of harbor seals in Washington State: 1978-1999. *Journal of Wildlife Management* 67(1):208–219.

- Jeffries, S.J., P.J. Gearin, H.R. Huber, D.L. Saul, and D.A. Pruett. 2000. Atlas of seal and sea lion haulout sites in Washington. Washington Department of Fish and Wildlife, Wildlife Science Division, Olympia.
- Jessop, T.S., Tucker, A.D., Limpus, C.J. and Whittier, J.M., 2003. Interactions between ecology, demography, capture stress, and profiles of corticosterone and glucose in a free-living population of Australian freshwater crocodiles. General and comparative endocrinology, 132(1), pp.161-170.
- Jorgenson, J.K. and Gyselman, E.C., 2009. Hydroacoustic measurements of the behavioral response of arctic riverine fishes to seismic airguns. The Journal of the Acoustical Society of America, 126(3), pp.1598-1606.
- Kastak, D., J. Mulsow, A. Ghoul, and C. Reichmuth. 2008. Noise-induced permanent threshold shift in a harbor seal: Abstract. Journal of the Acoustical Society of America 123:2986.
- Kastak, D., Reichmuth, C., Holt, M.M., Mulsow, J., Southall, B.L., Schusterman, R.J., 2007. Onset, growth, and recovery of in-air temporary threshold shift in a California sea lion (*Zalophus californianus*). The Journal of the Acoustical Society of America 122, 2916-2924.
- Kastak, D., Schusterman, R., 1999. In-air and underwater hearing sensitivity of a northern elephant seal (*Mirounga angustirostris*). Canadian Journal of Zoology 77, 1751-1758.
- Kastelein, R.A., Helder-Hoek, L., Defillet, L.N., Acoleyen, L.V., Huijser, L.A., Terhune, J.M., 2022. Temporary Hearing Threshold Shift in California Sea Lions (*Zalophus californianus*) Due to One-Sixth-Octave Noise Bands Centered at 0.6 and 1 kHz. Aquatic Mammals 48.
- Kastelein, R.A., Helder-Hoek, L., Defillet, L.N., Kuiphof, F., Huijser, L.A., Terhune, J.M., 2022. Temporary Hearing Threshold Shift in California Sea Lions (*Zalophus californianus*) Due to One-Sixth-Octave Noise Bands Centered at 8 and 16 kHz: Effect of Duty Cycle and Testing the Equal-Energy Hypothesis. Aquatic Mammals 48.
- Kastelein, R.A., Helder-Hoek, L., Defillet, L.N., Huijser, L.A., Terhune, J.M., Gransier, R., 2021. Temporary Hearing Threshold Shift in California Sea Lions (*Zalophus californianus*) Due to One-Sixth-Octave Noise Bands Centered at 2 and 4 kHz: Effect of Duty Cycle and Testing the Equal-Energy Hypothesis. Aquatic Mammals 47.
- Kastelein, R.A., Helder-Hoek, L., Cornelisse, S., Huijser, L.A., Gransier, R., 2019. Temporary hearing threshold shift in harbor porpoises (*Phocoena phocoena*) due to one-sixth-octave noise band at 32 kHz. Aquatic Mammals 45, 549-562. Kastelein, R.A., Helder-Hoek, L., Cornelisse, S., Huijser, L.A., Terhune, J.M., 2019. Temporary hearing threshold shift in harbor seals (*Phoca vitulina*) due to a one-sixth-octave noise band centered at 16 kHz. The Journal of the Acoustical Society of America 146, 3113-3122.

- Kastelein, R.A., Helder-Hoek, L., Gransier, R., 2019. Frequency of greatest temporary hearing threshold shift in harbor seals (*Phoca vitulina*) depends on fatiguing sound level. *The Journal of the Acoustical Society of America* 145, 1353-1362.
- Kastelein, R.A., Gransier, R., Schop, J., Hoek, L., 2015. Effects of exposure to intermittent and continuous 6–7 kHz sonar sweeps on harbor porpoise (*Phocoena phocoena*) hearing. *The Journal of the Acoustical Society of America* 137, 1623-1633. Kastelein, R.A., J. Schop, R. Gransier, and L. Hoek. 2014. Frequency of greatest temporary hearing threshold shift in harbor porpoise (*Phocoena phocoena*) depends on the noise level. *Journal of the Acoustical Society of America* 136:1410-1418.
- Kastelein, R.A., J. Schop, R. Gransier, and L. Hoek. 2014. Frequency of greatest temporary hearing threshold shift in harbor porpoise (*Phocoena phocoena*) depends on the noise level. *Journal of the Acoustical Society of America* 136:1410-1418.
- Kastelein, R.A., P. Wensveen, L. Hoek, and J.M. Terhune. 2009. Underwater hearing sensitivity of harbor seals (*Phoca vitulina*) for narrow noise bands between 0.2 and 80 kHz. *Journal of the Acoustical Society of America* 126(1):476-483.
- Krausman, P.R., L.K. Harris, C.L. Blasch, K.K.G. Koenen, and J. Francine. 2004. Effects of military operations on behavior and hearing of endangered Sonoran pronghorn. *Wildlife Monographs* 157:1-41.
- Kryter, K.D., W.D. Ward, J.D. Miller, and D.H. Eldredge. 1966. Hazardous exposure to intermittent and steady-state noise. *Journal of the Acoustical Society of America* 39:451-464.
- Lankford, S.E., T.E. Adams, R.A. Miller, and J.J. Cech. 2005. The cost of chronic stress: Impacts of a nonhabituating stress response on metabolic variables and swimming performance in sturgeon. *Physiological and Biochemical Zoology* 78:599-609.
- Laughlin, J. 2019. Bainbridge/Fauntleroy: Vibratory Driving Monitoring of H-Piles - Underwater Noise Technical Report. Washington State Department of Transportation Office of Air Quality and Noise. Seattle, WA. February 2019.
- Laughlin, J. 2012. Underwater Vibratory Sound Levels from a Steel and Plastic on Steel Pile Installation at the Anacortes Ferry Terminal. Washington State Department of Transportation Office of Air Quality and Noise. Seattle, WA. March 2012.
- Lusseau, D. and L. Bejder. 2007. The long-term consequences of short-term responses to disturbance experiences from whale watching impact assessment. *International Journal of Comparative Psychology* 201(2-3):228-236.
- Madsen, P.T., M. Johnson, P.J.O. Miller, N.A. Soto, J. Lynch, and P. Tyack. 2006. Quantitative measures of air-gun pulses recorded on sperm whales (*Physeter macrocephalus*) using acoustic

tags during controlled exposure experiments. Journal of the Acoustical Society of America 120(4):2366-2379.

Miller, J.D. 1974. Effects of noise on people. Journal of the Acoustical Society of America 56:729-764.

Moberg, G.P., 1987. A model for assessing the impact of behavioral stress on domestic animals. Journal of Animal Science, 65(5), pp.1228-1235.Mooney, T.A., Nachtigall, P.E. and Vlachos, S., 2009. Sonar-induced temporary hearing loss in dolphins. Biology letters, 5(4), pp.565-567.

Moberg, Gary P. "Biological response to stress: implications for animal welfare." In The biology of animal stress: Basic principles and implications for animal welfare., pp. 1-21. Wallingford UK: CABI publishing, 2000.

Mooney, T.A., Nachtigall, P.E., Breese, M., Vlachos, S., Au, W.W., 2009. Predicting temporary threshold shifts in a bottlenose dolphin (*Tursiops truncatus*): The effects of noise level and duration. The Journal of the Acoustical Society of America 125, 1816-1826.

Muto, M. M., V. T. Helker, R. P. Angliss, P. L. Boveng, J. M. Breiwick, M. F. Cameron, P. J. Clapham, S. P. Dahle, M. E. Dahlheim, B. S. Fadely, M. C. Ferguson, L. W. Fritz, R. C. Hobbs, Y. V. Ivashchenko, A. S. Kennedy, J. M. London, S. A. Mizroch, R. R. Ream, E. L. Richmond, K. E. W. Shelden, K. L. Sweeney, R. G. Towell, P. R. Wade, J. M. Waite, and A. N. Zerbini. 2019. Alaska marine mammal stock assessments, 2018. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-AFSC-393, 390 p.

National Institute for Occupational Safety and Health (NIOSH). 1998. Criteria for a recommended standard: Occupational noise exposure. United States Department of Health and Human Services, Cincinnati, OH.

National Marine Fisheries Service (NMFS). 2024. Interim Simultaneous Sound Source Recommendations for Coastal Pile Installation. NOAA Fisheries Office of Protected Resources. February 20, 2024.

NMFS. 2018. 2018 Revisions to: Technical Guidance for Assessing the Effects of Anthropogenic Sound on Marine Mammal Hearing (Version 2.0): Underwater Acoustic Thresholds for Onset of Permanent and Temporary Threshold Shifts. U.S. Department of Commerce, NOAA. NOAA Technical Memorandum NMFS-OPR-59, 169 p.

NMFS. 2017. Endangered Species Act Section 7(a)(2) Biological Opinion and Magnuson-Stevens Fishery Conservation and Management Act Essential Fish Habitat Response for the Kalama Manufacturing and Marine Export Facility, Cowlitz County, Washington (Sixth Field HUC 170800030804 Lower Columbia River) (Corps No.: NWP-2014-1772).

NMFS. 2013. Southern Resident Killer Whale Satellite Tagging. Northwest Science Center. Available: http://www.nwfsc.noaa.gov/research/divisions/cb/ecosystem/marine_mammal/satellite_tagging/blog.cfm. Accessed May 1, 2024.

National Research Council (NRC). 2005. Marine mammal populations and ocean noise/Determining when noise causes biologically significant effects. U.S. Nat. Res. Counc., Ocean Studies Board, Committee on characterizing biologically significant marine mammal behavior (Wartzok, D.W., J. Altmann, W. Au, K. Ralls, A. Starfield, and P.L. Tyack). Nat. Acad. Press, Washington, DC. 126 p.

NRC. 2003. Ocean noise and marine mammals. Washington, DC: National Research Council Committee on Potential Impacts of Ambient Noise in the Ocean on Marine Mammals; The National Academies Press.

NRC. 2003. Ocean noise and marine mammals. National Academy of Sciences: 220.

Navy (United States Navy). 2015. Proxy source sound levels and potential bubble curtain attenuation for acoustic modeling of nearshore marine pile driving at Navy installations in Puget Sound. Prepared by Michael Slater, Naval Surface Warfare Center, Carderock Division, and Sharon Rainsberry, Naval Facilities Engineering Command Northwest. Revised January 2015.

Nedwell, J. and B. Edwards. 2002. Measurements of underwater noise in the Arun River during piling at County Wharf, Littlehampton. Report by Subacoustech, Ltd. to David Wilson Homes Ltd (2002).

Nowacek, D.P., M.P. Johnson, and P.L. Tyack. 2004. North Atlantic right whales (*Eubalaena glacialis*) ignore ships but respond to alerting stimuli. Proceedings of the Royal Society of London B: Biological Sciences 271(1536):227-231.

Paxton, A.B., J.C. Taylor, D.P. Nowacek, J. Dale, E. Cole, C.M. Voss, and C.H. Peterson. 2017. Seismic survey noise disrupted fish use of a temperate reef. Marine Policy 78: 68-73.

Payne, M., D.W. Heinemann, and L.A. Selzer. 1990. A distributional assessment of cetaceans in the shelf/shelf edge and adjacent slope waters of the northeastern United States based on aerial and shipboard surveys, 1978-1988. Report to NOAA NMFS NEFSC, 166 Water St., Woods Hole, Massachusetts 02543

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.

Pena, H., N.O. Handegard, and E. Ona. 2013. Feeding herring schools do not react to seismic air gun surveys. ICES Journal of Marine Science 70 (6):1174-1180.

Popper, A.N. and M.C. Hastings. 2009. The effects of anthropogenic sources of sound on fishes. Journal of Fish Biology 75 (3):455-489.

Reichmuth, C., Sills, J.M., Mulsow, J., Ghoul, A., 2019. Long-term evidence of noise-induced permanent threshold shift in a harbor seal (*Phoca vitulina*). The Journal of the Acoustical Society of America 146, 2552-2561.

- Reichmuth, C. and M.M. Holt. 2013. Comparative assessment of amphibious hearing in pinnipeds. *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural and Behavioral Physiology* 199(6):491-507.
- Richardson, W.J., C.R. Greene, C.I. Malme, and D.H. Thomson. 1995. *Marine Mammals and Noise*. Academic Press, Inc., San Diego, CA.
- Romano, T.A., M.J. Keogh, C. Kelly, P. Feng, L. Berk, C.R. Schlundt, et al. 2004. Anthropogenic sound and marine mammal health: Measures of the nervous and immune systems before and after intense sound exposure. *Canadian Journal of Fisheries and Aquatic Sciences* 61:1124-1134.
- Romano, T., M. Keogh, and K. Danil. 2002a. Investigation of the effects of repeated chase and encirclement on the immune system of spotted dolphins (*Stenella attenuata*) in the eastern tropical Pacific. *Administrative Report LJ-02-35C*, National Marine Fisheries Service: 37.
- Romano, T.A., D.L. Felten, S.Y. Stevens, J.A. Olschowka, V. Quaranta, and S.H. Ridgway. 2002b. Immune response, stress, and environment: Implications for cetaceans. Pages 253-279 in C.J. Pfeiffer, ed. *Molecular and Cell Biology of Marine Mammals*. Krieger Publishing Co., Malabar, Florida.
- Santulli, A., A. Modica, C. Messina, L. Ceffa, A. Curatolo, G. Rivas, et al. 1999. Biochemical responses of European sea bass (*Dicentrarchus labrax* L.) to the stress induced by offshore experimental seismic prospecting. *Marine Pollution Bulletin* 38 (12):1105-1114.
- 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* 107:3496-3508.
- 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, 43-52.
- Scholik, A.R. and H.Y. Yan. 2001. The effects of underwater noise on auditory sensitivity of fish. *Proceedings of the Institute of Acoustics* 23(4):27.
- Scordino, J. 2006. Steller Sea Lion (*Eumetopias jubatus*) of Oregon and Northern California: Seasonal Haul-out Abundance Patterns, Movements of Marked Juveniles, and Effects of Hot-Iron Branding on Apparent Survival of Pups at Rogue Reef. Master's thesis, Oregon State University, Corvallis.
- Seyle, H. 1950. Stress and the general adaptation syndrome. *J Brit Med* 1:1383–1392.
- Sills, J.M., Ruscher, B., Nichols, R., Southall, B.L., Reichmuth, C., 2020. Evaluating temporary threshold shift onset levels for impulsive noise in seals. *The Journal of the Acoustical Society of America* 148, 2973-2986.
- 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 (*Sebastodes* spp.). Canadian Journal of Fisheries and Aquatic Sciences 49(7):1357-1365.

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 (*Sebastodes* spp.). Canadian Journal of Fisheries and Aquatic Sciences 49(7):1357-1365.

Southall B L, Finneran J J, Reichmuth C, Nachtigall P E, Ketten D R, Bowles A E, Ellison W T, Nowacek D P, Tyack P L. 2019. Marine Mammal Noise Exposure Criteria: Updated Scientific Recommendations for Residual Hearing Effects. Aquatic Mammals 2019, 45(2), 125-232, DOI 10.1578/AM.45.2.2019.125.

Southall, B.L., A.E. Bowles, W.T. Ellison, J.J. Finneran, R.L. Gentry, C.R. Greene, et al. 2007. Marine mammal noise exposure criteria: initial scientific recommendations. Aquatic Mammals 33(4):411-521.

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 p.

Tidwell, K.S. and B.K. van der Leeuw. 2021. Evaluation of Pinniped Predation On Adult Salmonids and Other Fish In The Bonneville Dam Tailrace, 2020. U.S. Army Corps of Engineers, Portland District, Fisheries Field Unit. Cascade Locks, OR. 43 pp.

Tidwell, K.S., D.A. McCanna, R.I. Cates, C.B. Ford and B.K. van der Leeuw. 2020. Evaluation of Pinniped Predation on Adult Salmonids and Other Fish In The Bonneville Dam Tailrace, 2019. U.S. Army Corps of Engineers, Portland District, Fisheries Field Unit. Cascade Locks, OR. 60 pp

van der Leeuw, B.K., and K.S. Tidwell. 2022. Evaluation of Pinniped Predation on Adult Salmonids And Other Fish In The Bonneville Dam Tailrace, 2021. U.S. Army Corps of Engineers, Portland District, Fisheries Field Unit. Cascade Locks, OR.

Ward, W.D. 1997. Effects of high intensity sound, Pp, 1497-1507 in Encyclopedia of Acoustics, MJ Crocker, ed, New York: J. Wiley and Sons, Inc.

Ward, W.D. 1960. Recovery from high values of temporary threshold shift. Journal of the Acoustical Society of America 32:497-500.

Ward, W.D., A. Glorig, and D.L. Sklar. 1959. Temporary threshold shift from octave-band noise: Application to damage-risk criteria. Journal of the Acoustical Society of America 31:522 528.

Ward, W.D., A. Glorig, and D.L. Sklar. 1958. Dependence of temporary threshold shift at 4 kc on intensity and time. Journal of the Acoustical Society of America 30:944-954.

- Wardle, C.S., T.J. Carter, G.G. Urquhart, A.D.F. Johnstone, A.M. Ziolkowski, G. Hampson, and D. Mackie. 2001. Effects of seismic air guns on marine fish. *Continental Shelf Research* 21:10051027.
- Wartzok D., A.N. Popper, J. Gordon J., and J.J. Merrill. 2004. Factors affecting the responses of marine mammals to acoustic disturbance. *Marine Technology Society Journal* 37:6-15.
- 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.
- Wartzok, D., and D.R. Ketten. 1999. Marine mammal sensory systems. pp 117-175 In J.E. Reynolds II & S.A. Rommel (Eds.), *Biology of marine mammals*. Washington, DC: Smithsonian Institution Press.
- Washington Department of Fish and Wildlife (WDFW). (2020). Columbia River sea lion management. <https://wdfw.wa.gov/species-habitats/at-risk/species-recovery/sea-lion-management>. Accessed December 2020.
- 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.
- Wiles, G.J. 2015. Washington state periodic status review for the Steller sea lion. Washington Department of Fish and Wildlife, Olympia, Washington. 38 pp.
- Yazvenko, S.B., T.L. McDonald, S.A. Blokhin, S.R. Johnson, H.R. Melton, M.W. Newcomer, et al. 2007. Feeding of western gray whales during a seismic survey near Sakhalin Island, Russia. *Environmental Monitoring and Assessment* 134(1-3):93-106.
- Zelick, R., and D.A. Mann. 1999. Acoustic communication in fishes and frogs. In: Fay, R.R. and A.N. Popper, eds. *Comparative hearing: Fishes and amphibians*. Springer-Verlag, New York.