

## References: ADOT Tongass Narrows 2023

- 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.
- ADF&G. 2009. The subsistence harvest of harbor seals and sea lions by Alaska Natives in 2008. Technical Paper No. 347 from Alaska Department of Fish and Game, Division of Subsistence and Alaska Native Harbor Seal Commission. Available at: <http://www.adfg.alaska.gov/techpap/TP347.pdf>
- ADF&G. 2023. Community Subsistence Information System: Harvest Information for Marine Mammals, Southcentral Alaska. Accessed at <http://www.adfg.alaska.gov/sb/CSIS/index.cfm?ADFG=harvInfo.resourceRegionData> on April 21, 2023.
- ADOTP&F. 2021. Monitoring Report. Tongass Narrows Project. Protected Species Final Monitoring Report: Phase 1 October 2020 – February 2021. September 2021.
- ADOTP&F. 2023. Protected Species Preliminary Monitoring DRAFT Report. Tongass Narrows Ferry Berth Improvements New Phase 1 Incidental Harassment Authorization March 2022 – December 2022. January 2023
- Allen, B.A. and R. P. Angliss 2015. Alaska Marine Mammal Stock Assessments 2014. NOAA Technical Memorandum. Anchorage AK, US Department of Commerce: 304pp.
- American National Standards Institute (ANSI). 1986. Methods of measurement for impulse noise 3 (ANSI S12.7-1986). Acoustical Society of America, Woodbury, NY.
- American National Standards Institute (ANSI). 1995. Bioacoustical Terminology (ANSI S3.20-1995). 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 pp.
- Au, W.W.L. and M. Hastings. 2008. Principles of Marine Bioacoustics. Springer-Verlag, New York.
- Bettridge, S., C. Scott Baker, Jay Barlow, Phillip J. Clapham, Michael Ford, David Gouveia, David K. Mattila, Richard M. Pace, III, Patricia E. Rosel, Gregory K. Silber, Paul R. Wade. 2015. Status Review of The Humpback Whale (*Megaptera novaeangliae*) Under The Endangered Species Act. NOAA-TM-NMFS-SWFSC-540.
- Blecha, F. 2000. Immune system response to stress. Pages 111-122 in G.P. Moberg and J.A. Mench, eds. *The Biology of Animal Stress: Basic Principles and Implications for Animal Welfare*. CABI Publishing, Oxon, United Kingdom.
- CalTrans. 2015. Technical Guidance for Assessment and Mitigation of the Hydroacoustic Effects of Pile Driving on Fish -2015. Authored by David Buehler, P.E., Rick Oestman, James Reyff, Keith Pommerenck, Bill Mitchell. Available online at: [http://www.dot.ca.gov/hq/env/bio/files/bio\\_tech\\_guidance\\_hydroacoustic\\_effects\\_110215.pdf](http://www.dot.ca.gov/hq/env/bio/files/bio_tech_guidance_hydroacoustic_effects_110215.pdf)
- 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 pp.
- Carretta, J.V., E.M. Oleson, K.A. Forney, M.M. Muto, D.W. Weller, A.R. Lang, J. Baker, B. Hanson, A.J. Orr, J. Barlow, J.E. Moore, and R.L. Brownell Jr. 2022. U.S. Pacific Marine Mammal Stock Assessments: 2021. U.S. Department of Commerce. National Oceanic and Administrative Association Technical Memorandum NMFS-SWFSC-663.
- 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.
- Committee on Taxonomy. 2022. List of marine mammal species and subspecies. Society for Marine Mammalogy, [www.marinemammalscience.org](http://www.marinemammalscience.org).
- 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., Acevedo-Gutiérrez, A., Tershy, B.R. and Urbán-Ramírez, J., 2001. The diving behavior of blue and fin whales: is dive duration shorter than expected based on oxygen stores?. *Comparative Biochemistry and Physiology Part A: Molecular & Integrative Physiology*, 129(4), pp.797-809.
- Dahlheim, M.E., P.A. White, and J.M. Waite. 2009. Cetaceans of Southeast Alaska: distribution and seasonal occurrence. *Journal of Biogeography* 36:410–426.
- 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
- 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. 2008. Fish Bioacoustics. Handbook of Signal Processing in Acoustics. 1851 – 1860.
- Fay R. R. 2009. Soundscapes and the sense of hearing of fishes. *Integrative Zoology*, 4: 26–32.
- Ferguson, M. C., C. Curtice, and J. Harrison. 2015. Biologically important areas for cetaceans within U.S. waters – Gulf of Alaska region. *Aquatic Mammals* 41: 65-78
- Ferrero, R. C., and W. A. Walker. 1996. Age, growth, and reproductive patterns of the Pacific white-sided dolphin (*Lagenorhynchus obliquidens*) taken in high seas drift nets in the central North Pacific Ocean. *Can. J. Zool.* 74(9):1673-1687.
- FHWA (Federal Highway Administration). 2017. Gravina Access Project Record of Decision and Final Supplemental Environmental Impact Statement. DOT&PF Project No: 67698. Federal Project No: ACHP-0922(5). Prepared for Alaska Department of Transportation and Public Facilities by HDR, Inc.
- Fewtrell, J. L., and R. D. McCauley. 2012. Impact of air gun noise on the behaviour of marine fish and squid. *Marine Pollution Bulletin* 64:984-993.
- 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.
- 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.
- Finneran, J. J., R. Dear, D. A. Carder, and S. H. Ridgway. 2002. Auditory and behavioral responses of California sea lions (*Zalophus californianus*) to single underwater impulses from an arc-gap transducer. *Journal of the Acoustical Society of America* 114(3):1667.
- 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.
- Freitag, G. 2017. (As cited in 83 FR 22009, May 11, 2018). Personal communication between Kate Arduser, Solstice Alaska Consulting, Inc. and Gary Freitag, University of Alaska Fairbanks College of Fisheries and Ocean Sciences Associate Professor Marine Advisory Program, member of NOAA Marine Mammal Stranding Network, and longtime Ketchikan resident, regarding marine mammal occurrence, behavior, and typical groups size in Ketchikan vicinity.
- Fritz, L., K. Sweeney, R. Towell, and T. Gelatt. 2016. Aerial and ship-based surveys of Steller sea lions (*Eumetopias jubatus*) conducted in Alaska in June-July 2013 through 2015, and an update on the status and trend of the western distinct population segment in Alaska. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-AFSC-321, 72 p.
- Goldbogen, J., A.S. Friedlaender, J. Calambokidis, M.F. McKenna, M. Simon and D.P. Nowacek. 2013. Integrative approaches to the study of baleen whale diving behavior, feeding performance, and foraging ecology. *Bioscience*. 63:2.
- Harrison, J., M.C. Ferguson, L. New, J. Cleary, C. Curtice, S. DeLand, E. Fujioka, P.N. Halpin, R.B. Tyson Moore, and S. M. Van Parijs. 2023. Biologically Important Areas II for cetaceans

- within U.S. and adjacent waters – Updates and the application of a new scoring system. *Frontiers and Marine Science*. 10:2023.
- Halvorsen, M.B., D.G. Zeddies, W.T. Ellison, D.R. Chicoine, and A.N. Popper. 2012a. Effects of mid-frequency 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.
- Hayvaert, C. and J. Reyff. 2021. Tenakee Ferry Terminal Improvement Project: Pile driving sound source verification. Tenakee Springs, AK. Prepared for ADOT. 217 pages.
- Hemilä, S., Nummela, S., Berta, A. and Reuter, T., 2006. High-frequency hearing in phocid and otariid pinnipeds: An interpretation based on inertial and cochlear constraints. *The Journal of the Acoustical Society of America*, 120(6), pp.3463-3466. Henderson et al 2008
- Henderson, M. and Brakey, S., 2008. Shaping online teaching practices: The influence of professional and academic identities. *Campus-Wide Information Systems*, 25(2), pp.8592.
- 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. *Fisheries Bulletin* 108(3): 251-267.
- Holberton, R. L., B. Helmuth, and J. C. Wingfield. 1996. The corticosterone stress response in gentoo and king penguins during the non-fasting period. *Condor* 98 (4):850-854.
- Hood, L. C., P. D. Boersma, and J. C. Wingfield. 1998. The adrenocortical response to stress in incubating Magellanic penguins (*Spheniscus magellanicus*). *Auk* 115(1):76-84.
- Jefferson T.A., Dahlheim M.E., Zerbini A.N., Waite J.M., Kennedy A.S. 2019. Abundance and seasonality of Dall's porpoise (*Phocoenoides dalli*) in southeast Alaska. U.S. Department of Commerce. NOAA Technical Memorandum NMFS-AFSC-385.
- Jemison, L. A., G. W. Pendleton, L. W. Fritz, K. K. Hastings, J. M. Maniscalco, A. W. Trites, and T. S. Gelatt. 2013. Inter-population movements of Steller sea lions in Alaska with implications for population separation. *PLoS ONE* 8(8):e70167.
- Jessop, T. S., A. D. Tucker, C. J. Limpus, and J. M. Whittier. 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):161-170.
- Jorgenson, J.K., and E.C. Gyselman. 2009. Hydroacoustic measurements of the behavioral response of arctic riverine fishes to seismic airguns. *Journal of the Acoustical Society of America* 126 (3):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.
- 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.
- 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.
- 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 nonhabituation stress response on metabolic variables and swimming performance in sturgeon. *Physiological and Biochemical Zoology* 78:599–609.
- Le Boeuf, B.J., D.E. Crocker, D.P. Costa, S.B. Blackwell, P.M. Webb, and D.S. Houser. 2000. Foraging ecology of northern elephant seals. *Ecological monographs*, 70(3), 353-382.
- Leatherwood, S., R.R. Reeves, A.E. Bowles, B.S. Stewart, and K.R. Goodrich. 1984. Distribution, seasonal movements, and abundance of Pacific white-sided dolphins in the eastern North Pacific. *Scientific Reports of the Whales Research Institute* 35:129–157.
- 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., Wahlberg, M., Tougaard, J., Lucke, K. and Tyack, P., 2006. Wind turbine underwater noise and marine mammals: implications of current knowledge and data needs. *Marine ecology progress series*, 309, pp.279-295.
- Melcón, M.L., A.J. cummins, S.M. Kerosky, L.K. Roche, S.M. Wiggins, and J.A. Hildebrand. 2012. Blue whales respond to anthropogenic noise. *PlosOne*. 7(2).
- Miller, A.H., 1974. Political issues and trust in government: 1964–1970. *American political science review*, 68(3), pp.951-972.
- 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.
- Morton, A. 2006. Occurrence, photo-identification and prey of Pacific white-sided dolphins (*Lagenorhynchus obliquidens*) in the Broughton Archipelago, Canada 1984–1998. *Mar. Mam. Sci.* 16: 80–93
- Muto M.M., V.T. Helker, B.J. Delean, N.C. Young, J.C. Freed, R.P. Angliss, N.A. Friday, P.L. Boveng, J.M. Breiwick, B.M. Brost, M.F. Cameron, P.J. Clapham, J.L. Crane, S.P. Dahle, M.E. Dahlheim, B.S. Fadely, M.C. Ferguson, L.W. Fritz, K.T. Goetz, 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. 2022. Alaska marine mammal stock assessments, 2021. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-AFSC-441, 295 p.
- 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 No. 513R0108, Prepared by Subacoustech, Ltd. for David Wilson Homes, Ltd.: 28 pp.
- 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.
- 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.
- NMFS. 2016b. Technical Guidance for Assessing the Effects of Anthropogenic Sound on Marine Mammal Hearing: Underwater Acoustic Thresholds for Onset of Permanent and Temporary Threshold Shifts. U.S. Department of Commerce, NOAA. NOAA Technical Memorandum NMFS-OPR-55.
- 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. 2020. Manual for Optional User Spreadsheet Tool (Version 2.1; December) for: 2018

- 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. Silver Spring, Maryland: Office of Protected Resources, National Marine Fisheries Service.
- NMFS. 2021. Occurrence of Endangered Species Act (ESA) Listed Humpback Whales off Alaska. U.S Department of Commerce, NOAA.  
<https://www.fisheries.noaa.gov/resource/document/occurrence-endangered-species-act-listed-humpback-whales-alaska>. Accessed 4/21/2023.
- NMFS, 2022. Acoustic Guidance for Assessment of Down-the-Hole (DTH) Systems. Available from: [https://media.fisheries.noaa.gov/202211/PUBLIC%20DTH%20Basic%20Guidance\\_November%202022.pdf](https://media.fisheries.noaa.gov/202211/PUBLIC%20DTH%20Basic%20Guidance_November%202022.pdf)
- National Research Council (NRC). 2003. Ocean noise and marine mammals. National Academy of Sciences: 220. NAVFAC SW (Naval Facilities Engineering Command Southwest). 2015. Monitoring Report for Fuel Pier Replacement Project (P-151) at Naval Base Point Loma, San Diego, CA. 8 October 2014 to 30 April 2015.
- NRC. 2005. Marine mammal populations and ocean noise: Determining when noise causes biologically significant effects. National Academy of Sciences: 142.
- Oceanographic Services of Southeast Alaska (OSSA). 2001. Marine Mammal Monitoring Ketchikan Transfer Facility Pile Driving Operations. Marine mammal observation report from construction of the Ketchikan Transfer Facility in Tongass Narrows in 2001.
- Oestman, R., D. Buehler, J. Reyff, and R. Rodkin. 2009. Technical guidance for assessment and mitigation of the hydroacoustic effects of pile driving on fish. Prepared by ICF Jones & Stokes and Illingworth & Rodkin, Inc. for the California Department of Transportation: 298.
- 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.
- 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.
- Power Systems & Supplies of Alaska, 2020. Protected Species Final Report. 54 pgs.  
[https://media.fisheries.noaa.gov/202012/WardCove\\_2020\\_Final\\_Monitoring\\_Report\\_OPR1.pdf?nu\\_ll=](https://media.fisheries.noaa.gov/202012/WardCove_2020_Final_Monitoring_Report_OPR1.pdf?nu_ll=)
- 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.
- Reichmuth, C., A. Ghoul, J.M. Sillis, A. Rouse, and B.L. Southall. 2016. Low-frequency temporary threshold shift not observed in spotted or ringed seals exposed to single air gun impulses. *Journal of the Acoustical Society of America* 140:2648-2658.
- Reyff, J. 2020. Review of down-the-hole rock socket drilling acoustic data measured for White Pass & Yukon Route (WP&YR) mooring dolphins. Illingworth & Rodkin, Inc., Cotati, California. 8 pages.
- Reyff, J. and A. Ambaskar. 2023. DTH Drilling Sound Source Verification Gravina Freight and Gravina Airport Ferry Layup Facilities. Illingworth & Rodkin, Inc. Cotati, California. 42 pages + appendices.
- Reyff, J., and Heyvaert, C. 2019. White Pass & Yukon Railroad Mooring Dolphin Installation: Pile Driving and Drilling Sound Source Verification, Skagway, Alaska. Illingworth & Rodkin, Inc., Cotati, CA. 32 pp. + appendices.
- Rice, A., A. Širović, J.S. Trickey, A.J. Debich, R.S. Gottlieb, S.M. Wiggins, J.A. Hildebrand, and S. Baumann-Pickering. 2021. Cetacean occurrence in the Gulf of Alaska from long-term passive

- acoustic monitoring. *Marine Biology* 168, 72.
- Richardson, W. J., C. R. Greene, C. I. Malme, and D. H. Thomson. 1995. *Marine Mammals and Noise*. Academic Press, Inc., San Diego, CA.
- Robinson, P.W., D.P. Costa, and D.E. Crocker. 2012. Foraging behavior and success of a mesopelagic predator in the northeast Pacific Ocean: insights from a data-rich species, the northern elephant seal. *PlosOne*. 7(5).
- Rolland, R. M., S. E. Parks, K. E. Hunt, M. Castellote, P. J. Corkeron, D. P. Nowacek, *et al.* 2012. Evidence that ship noise increases stress in right whales. *Proceedings of the Royal Society of London Series B Biological Sciences* 279(1737):2363-2368.
- 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.
- 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.
- 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.
- Schmale, C. 2008. Harbor Porpoise. ADF&G Species Information Sheet available from: [https://www.adfg.alaska.gov/static/education/wns/harbor\\_porpoise.pdf](https://www.adfg.alaska.gov/static/education/wns/harbor_porpoise.pdf). Accessed: August 2018.
- 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.
- 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.
- Seyle, H. 1950. Stress and the general adaptation syndrome. *British Medical Journal* June 17:1383-1392.
- Sitkiewicz, S. 2020. 2019-2020 City of Ketchikan Rock pinnacle Removal Project Marine Mammal Monitoring and Mitigation Report. [https://media.fisheries.noaa.gov/2021-03/KetchikanRockBlasting\\_2019IHA\\_PSOMonRep\\_OPR1.pdf?null=](https://media.fisheries.noaa.gov/2021-03/KetchikanRockBlasting_2019IHA_PSOMonRep_OPR1.pdf?null=)
- Sivle, L.D., P.J. Wensveen, P.H. Kvadsheim, F.A. Lam, F. Visser, C. Cure, C.M. Harris, P.L. Tyack, P.J.O Miller. 2016. Naval sonar disrupts foraging in humpback whales. *Marine Ecology Progress Series*. 562: 211 – 220.
- 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., 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.
- Southall, B. *et al.* 2019. Marine Mammal Noise Exposure Criteria: Updated Scientific Recommendations for Residual Hearing Effects. *Aquatic Mammals*. 45:125-232.
- Spokley, D. 2019. Conversation between Dave Spokley and Robin Reich regarding marine

- mammals in Ward Cove. July 29, 2019.
- Stacey, P.J., and R.W. Baird. 1991. Status of the Pacific white-sided dolphin, *Lagenorhynchus obliquidens*, in Canada. Canadian Field-Naturalist 105, 219–232.
- Straley, J. 1990. Fall and winter occurrence if humpback whales (*Megaptera novaeangliae*) in Southeastern Alaska. *Reports of the International Whaling Commission* (Special Issue 12): 319- 323.
- Straley, J.M, J.R. Moran, K.M. Boswell, J.J. Vollenweider, R.A. Heintz, T.J. Quinn, B.H. Witteveene, and S.D. Rice. 2018. Seasonal presence and potential influence of humpback whales on wintering Pacific herring populations in the Gulf of Alaska. Deep Sea Research Part II: Topical Studies in Oceanography. 147: 173–186.
- Stewart, B. S., B. J. Le Boeuf, P. K. Yochem, H. R. Huber, R. L. DeLong, R. J. Jameson, W. Sydeman, and S. G. Allen. 1994. History and present status of the northern elephant seal population. In: B. J. Le Boeuf and R. M. Laws (eds.) *Elephant Seals*. Univ. Calif. Press, Los Angeles.
- 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 pp.
- Turnagain Marine Construction. 2016. Marine Mammal Monitoring Forms from monitoring of Tongass Narrows during July and August construction of the Alaska Department of Transportation and Public Facilities' Ketchikan Ferry Terminal Improvements Project. Logs submitted to Alaska Department of Transportation and Public Facilities by Turnagain Marine Construction.
- Wade, P. *et al.* 2021. Estimates of abundance and migratory destination for North Pacific humpback whales in both summer feeding areas and winter mating and calving areas. IWC SC/68C/IA/03.
- 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.
- 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. 1960. Recovery from high values of temporary threshold shift. Journal of the Acoustical Society of America 32:497-500.
- Ward, W. D. 1997. Effects of high-intensity sound. Pages 1497-1507 in M.J. Crocker, ed. *Encyclopedia of acoustics*, Volume III. John Wiley & Sons, New York.
- 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 21:1005-1027.
- 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.
- 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., 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.
- 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.
- Wild, L.A., H.E. Riley, H.C. Pearson, C.M. Gabriele, J.L. Neilson, A. Szabo, J. Moran, J.M. Straley, and S. Deland 2023. Biologically important areas II for cetaceans within U.S. and adjacent waters – Gulf of Alaska Region. Frontiers in Marine Science. 10 – 2023.
- Witteveen, B.H., G.A.J. Worthy, R.J. Foy, K.M. and Wynne. 2012. Modeling the diet of humpback whales: An approach using stable carbon and nitrogen isotopes in a Bayesian mixing model. Marine Mammal Science, 28:E233–E250.
- Wolfe, R.J., J. Bryant, L.B. Hutchinson-Scarborough, M.A. Kookesh and L. Sill. 2013. The subsistence

- harvest of harbor seals and sea lions in Southeast Alaska in 2012. Anchorage, AK, Alaska Department of Fish and Game.
- Womble, J. N. and S. M. Gende. 2013. Post-breeding season migrations of a top predator, the harbor seal (*Phoca vitulina richardii*), from a marine protected area in Alaska. PLoS One 8(2): e55386.
- 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.
- Young, N.C., M.M. Muto, V.T. Helker, B.J. Delean, J.C. Freed, R.P. Angliss, N.A. Friday, P.L. Boveng, J.M. Breiwick, B.M. Brost, M.F. Cameron, P.J. Clapham, J.L. Crane, S.P. Dahle, M.E. Dahlheim, B.S. Fadely, M.C. Ferguson, L.W. Fritz, K.T. Goetz, 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. 2022. Draft Alaska marine mammal stock assessments, 2022. U.S. Dep. Commer., NOAA Tech. Memo.
- 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.
- Zerbini, A.N., J.M. Waite, J.L. Laake, and P.R. Wade. 2006. Abundance, trends, and distribution of baleen whales off Western Alaska and the Central Aleutian Islands. Deep-Sea Research 53:1772- 1790.