

References: Unalaska Channels Dredging and Blasting - USACE

- Alaska Department of Fish and Game (ADF&G). 2022a. Species Profile: Harbor Seal (*Phoca vitulina*). Accessed at <https://www.adfg.alaska.gov/index.cfm?adfg=harborseal.main> on July 11, 2022.
- ADF&G. 2022b. 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 12, 2022.
- Allen, B.M. and Angliss, R.P., 2015. Alaska marine mammal stock assessments, 2014.
- ANSI. 2005. Measurement of Sound Pressure Levels in Air (ANSI S1.13-2005). Acoustical Society of America, Woodbury, NY.
- ANSI (American National Standards Institute). 1995. Bioacoustical Terminology (ANSI S3.20-1995). New York: Acoustical Society of America
- ANSI. 1986. Methods of Measurement for Impulse Noise 3 (ANSI S12.7-1986). Acoustical Society of America, Woodbury, NY.
- Au, W.W. and Hastings, M.C., 2008. *Principles of marine bioacoustics* (Vol. 510). New York: Springer.
- Beauchamp, G., and B. Livoreil. 1997. The effect of group size on vigilance and feeding rate in spice finches (*Lonchura punctulata*). *Canadian Journal of Zoology*, 75(9), 1526-1531.
- Bejder, L., A. Samuels, H. Whitehead, and N. Gales. 2006. Interpreting short-term behavioural responses to disturbance within a longitudinal perspective. *Animal Behaviour*, 72, 1149–1158.
- Bettridge, S., C. S. Baker, J. Barlow, P. J. Clapham, M. Ford, D. Gouveia, D. K. Mattila, R. M. Pace, III, P. E. Rosel, G. K. Silber, P. R. Wade. 2015. Status review of the humpback whale (*Megaptera novaeangliae*) under the Endangered Species Act. U.S. Dep. Commerce, NOAA Tech. Memo. NMFS-SWFSC-540, 263 p.
- Blackwell, S. B., J. W. Lawson, and M. T. Williams. 2004. Tolerance by ringed seals (*Phoca hispida*) to impact pipe-driving and construction sounds at an oil production island. *The Journal of Acoustical Society of America*, 115(5 (Pt. 1)), 2346–2357.
- 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.
- Bowles, A. E., M. Smultea, B. Würsig, D. P. DeMaster, and D. Palka. 1994. Relative abundance and behavior of marine mammals exposed to transmissions from the Heard Island Feasibility Test. *The Journal of Acoustical Society of America*, 96, 2469–2484.
- Bradshaw, C. J., S. Boutin, and D. M. Hebert. 1998. Energetic implications of disturbance caused by petroleum exploration to woodland caribou. *Canadian Journal of Zoology*, 76(7), 1319-1324.
- Branstetter, B. K., J. S. Trickey, K. Bakhtiari, A. Black, H. Aihara, and J. J. Finneran. 2013. Auditory masking patterns in bottlenose dolphins (*Tursiops truncatus*) with natural, anthropogenic, and synthesized noise. *Journal of the Acoustical Society of America*, 133(3), 1811–1818.
- Brower, A., Ferguson, M., Clarke, J., Fujioka, E., & DeLand, S. (2022). Biologically Important Areas II for Cetaceans Within US and Adjacent Waters—Aleutian Islands and Bering Sea Region. *Frontiers in Marine Science*, 2489.

- 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., Smith, M.E., Halvorsen, M.B., Sun, H., Carlson, T.J. and Popper, A.N., 2013. Effects of exposure to pile driving sounds on fish inner ear tissues. *Comparative Biochemistry and Physiology Part A: Molecular & Integrative Physiology*, 166(2), pp.352-360.
- 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.
- Connor, R. C., & Heithaus, M. R. (1996). Approach by great white shark elicits flight response in bottlenose dolphins. *Marine Mammal Science*, 12(4), 602-606.
- 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.
- Cox, T. M., T. J. Ragen, A. J. Read, E. Vox, R. W. Baird, K. Balcomb, J. Barlow, J. Caldwell, T. Cranford, L. Crum, A. D'Amico, G. D'Spain, A. Fernandez, J. Finneran, R. Gentry, W. Gerth, F. Gulland, J. Hildebrand, D. Houser, T. Hullar, P. D. Jepson, D. Ketten, C. D. MacLeod, P. Miller, S. Moore, D. C. Mountain, D. Palka, P. Ponganis, S. Rommel, T. Rowles, B. Taylor, P. Tyack, D. Wartzok, R. Gisiner, J. Mead, and L. Benner. (2006). Understanding the impacts of anthropogenic sound on beaked whales. *Journal of Cetacean Research and Management*, 7(3), 177–187.
- 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.
- Daan, S., C. Deerenberg, and C. Dijkstra. (1996). Increased daily work precipitates natural death in the kestrel. *Journal of Animal Ecology*, 539-544.
- Dahl, P. H., Keith Jenkins, A., Casper, B., Kotecki, S. E., Bowman, V., Boerger, C., ... & Popper, A. N. (2020). Physical effects of sound exposure from underwater explosions on Pacific sardines (*Sardinops sagax*). *The Journal of the Acoustical Society of America*, 147(4), 2383-2395.
- Dahlheim, M.E., White, P.A. and Waite, J.M., 2009. Cetaceans of Southeast Alaska: distribution and seasonal occurrence. *Journal of Biogeography*, 36(3), pp.410-426.
- Di Iorio, L., and C. W. Clark. (2009/2010). Exposure to seismic survey alters blue whale acoustic communication. *Biology Letters*, 6, 51–54.
- Ellison, W.T., Southall, B.L., Clark, C.W. and Frankel, A.S., 2012. A new context-based approach to assess marine mammal behavioral responses to anthropogenic sounds. *Conservation Biology*, 26(1), pp.21-28.
- Erbe, C. 2008. Critical ratios of beluga whales (*Delphinapterus leucas*) and masked signal duration. *Journal of the Acoustical Society of America*, 124 (4), 2216-2223.
- Evans, D.L. and G. R. England, G.R. (2001). Joint Interim Report Bahamas Marine Mammal Stranding Event 15-16 March 2000. US Navy and NMFS Report, Washington, DC and Silver Spring, MD USA.

- Fair, P.A. and Becker, P.R., 2000. Review of stress in marine mammals. *Journal of Aquatic Ecosystem Stress and Recovery*, 7(4), pp.335-354.
- Fay, R., 2009. Soundscapes and the sense of hearing of fishes. *Integrative Zoology*, 4(1), pp.26-32.
- Fewtrell, J.L. and McCauley, R.D., 2012. Impact of air gun noise on the behaviour of marine fish and squid. *Marine pollution bulletin*, 64(5), pp.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. 2016. Auditory weighting functions and TTS/PTS exposure functions for marine mammals exposed to underwater noise. Technical Report. San Diego: SPAWAR.
- 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. and 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(3), pp.1819-1826.
- Finneran, J.J. and Schlundt, C.E., 2010. Frequency-dependent and longitudinal changes in noise-induced hearing loss in a bottlenose dolphin (*Tursiops truncatus*). *The Journal of the Acoustical Society of America*, 128(2), pp.567-570.
- 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., 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.
- 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, and R.R. Reeves 2008. Fight or flight: antipredator strategies of baleen whales. *Mammal Review* 38:50-86
- Francois, R. E., and G.R. Garrison. 1982a. "Sound absorption based on ocean measurements. Part I: Pure water and magnesium sulphate contributions." *Journal of the Acoustical Society of America*, 72(3): 896–907.
- Francois, R. E., and G.R. Garrison. 1982b. "Sound absorption based on ocean measurements. Part II: Boric acid contribution and equation for total absorption." *Journal of the Acoustical Society of America*, 72: 1879–1890

- Fristrup, K. M., L. T. Hatch, and C. W. Clark. (2003). Variation in humpback whale (*Megaptera novaeangliae*) song length in relation to low-frequency sound broadcasts. *The Journal of Acoustical Society of America*, 113(6), 3411–3424.
- Fritz, H., M. Guillemain, and D. Durant. (2002). The cost of vigilance for intake rate in the mallard (*Anas platyrhynchos*): An approach through foraging experiments. *Ethology, Ecology and Evolution* 14 (2):91-97.
- Gailey, G., B. Würsig, and T. L. McDonald. (2007). Abundance, behavior, and movement patterns of western gray whales in relation to a 3-D seismic survey, Northeast Sakhalin Island, Russia. *Environmental Monitoring and Assessment*, 134, 75–91.
- Goold, J. C. (1996). Acoustic assessment of populations of common dolphin *Delphinus delphis* in conjunction with seismic surveying. *Journal of the Marine Biological Association of the United Kingdom*, 76(3), 811-820.
- Gordon J., Gillespie D., Potter J., Frantzis A., Simmonds M. P., Swift R., Thompson D. 2004. A review of the effects of seismic surveys on marine mammals. *Mar. Tech. Soc. J.* 37, 16–34
- Götz, T., G. Hastie, L.T. Hatch, O. Raustein, B.L. Southall, M. Tasker, and F. Thomsen. (2009). Overview of the impacts of anthropogenic underwater sound in the marine environment. OSPAR Commission: 134.
- Halvorsen, M.B., Casper, B.M., Matthews, F., Carlson, T.J. and Popper, A.N., 2012b. Effects of exposure to pile-driving sounds on the lake sturgeon, Nile tilapia and hogchoker. *Proceedings of the Royal Society B: Biological Sciences*, 279(1748), pp.4705-4714.
- Halvorsen, M.B., Zeddies, D.G., Ellison, W.T., Chicoine, D.R. and Popper, A.N., 2012a. Effects of mid-frequency active sonar on hearing in fish. *The Journal of the Acoustical Society of America*, 131(1), pp.599-607.
- Harrington, F. H., and A. M. Veitch. (1992). Calving success of woodland caribou exposed to low-level jet fighter overflights. *Arctic*, 213-218.
- Harris, C.M., 1998. Handbook of Acoustical Measurements and Noise Control. Woodbury, N.Y.: Acoustical Society of America.
- Hastings, M.C. and Popper, A.N., 2005. *Effects of sound on fish* (No. CA05-0537). California Department of Transportation.
- 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.
- Hildebrand, J. A. (2009). Anthropogenic and natural sources of ambient noise in the ocean. *Marine Ecology Progress Series*, 395, 5–20.
- 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.
- 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. *The Journal of the Acoustical Society of America*, 125(1), EL27-EL32.
- 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.
- 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.

- 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:e70167.
- 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., Mulsow, J., Ghoull, A., Reichmuth, C., 2008. Noise-induced permanent threshold shift in a harbor seal. *The Journal of the Acoustical Society of America* 123, 2986-2986.
- 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.
- Kastak, D., Schusterman, R.J., 1998. Low-frequency amphibious hearing in pinnipeds: Methods, measurements, noise, ecology. *J. Acoust. Soc. Am.* 103, 2216-2228.
- Kastak, D., Schusterman, R.J., Southall, B.L., Reichmuth, C.J., 1999. Underwater temporary threshold shift induced by octave-band noise in three species of pinniped. *J. Acoust. Soc. Am.* 106, 1142-1148.
- Kastak, D., Southall, B.L., Schusterman, R.J., Kastak, C.R., 2005. Underwater temporary threshold shift in pinnipeds: Effects of noise level and duration. *J. Acoust. Soc. Am.* 118, 3154-3163.
- Kastelein, R.A., Cornelisse, S.A., Huijser, L.A., Helder-Hoek, L., 2020a. Temporary hearing threshold shift in harbor porpoises (*Phocoena phocoena*) due to one-sixth octave noise bands at 63 kHz. *Aquatic Mammals* 46.
- Kastelein, R.A., Gransier, R., Hoek, L., Macleod, A., Terhune, J.M., 2012a. Hearing threshold shifts and recovery in harbor seals (*Phoca vitulina*) after octave-band noise exposure at 4 kHz. *The Journal of the Acoustical Society of America* 132, 2745-2761.
- Kastelein, R.A., Gransier, R., Hoek, L., Olthuis, J., 2012b. Temporary threshold shifts and recovery in a harbor porpoise (*Phocoena phocoena*) after octave-band noise at 4 kHz. *The Journal of the Acoustical Society of America* 132, 3525-3537.
- 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., Helder-Hoek, L., Cornelisse, S., Huijser, L.A., Gransier, R., 2019a. 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.A., Huijser, L.A., Terhune, J.M., 2020b. Temporary hearing threshold shift in harbor seals (*Phoca vitulina*) due to a one-sixth octave noise band centered at 32 kHz. *The Journal of the Acoustical Society of America* 147, 1885-1896.

- Kastelein, R.A., Helder-Hoek, L., Covi, J., Gransier, R., 2016. Pile driving playback sounds and temporary threshold shift in harbor porpoises (*Phocoena phocoena*): Effect of exposure duration. *The Journal of the Acoustical Society of America* 139, 2842-2851.
- Kastelein, R.A., Helder-Hoek, L., Defiliet, L.N., Acoleyen, L.V., Huijser, L.A., Terhune, J.M., 2022a. 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., Defiliet, 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., Defiliet, L.N., Kuiphof, F., Huijser, L.A., Terhune, J.M., 2022b. 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., van Kester, R., Huisman, R., Gransier, R., 2019b. Temporary hearing threshold shift in harbor porpoises (*Phocoena phocoena*) due to one-sixth octave noise band at 16 kHz. *Aquatic Mammals* 45.
- Kastelein, R.A., Schop, J., Gransier, R., Hoek, L., 2014. Frequency of greatest temporary hearing threshold shift in harbor porpoises (*Phocoena phocoena*) depends on the noise level. *The Journal of the Acoustical Society of America* 136, 1410-1418.
- Kastelein, R.A., van Schie, R., Verboom, W.C., de Haan, D., 2005. Underwater hearing sensitivity of a male and a female Sella sea lion (*Eumetopias jubatus*). *J. Acoust. Soc. Am.* 118, 1820-1829.
- Kastelein, R.A., Wensveen, P., Hoek, L., Terhune, J.M., 2009. Underwater hearing sensitivity of harbor seals (*Phoca vitulina*) for narrow noise bands between 0.2 and 80 kHz. *The Journal of the Acoustical Society of America* 126, 476-483.
- Kennedy, A. S., Zerbini, A. N., Rone, B. K., & Clapham, P. J. (2014). Individual variation in movements of satellite-tracked humpback whales *Megaptera novaeangliae* in the eastern Aleutian Islands and Bering Sea. *Endangered Species Research*, 23(2), 187-195.
- Ketten, D.R. (1994). "Functional analyses of whale ears: adaptations for underwater hearing," in *IEEE Proceedings in Underwater Acoustics*, pp. 264-270.
- Ketten, D.R. (2000). "Cetacean ears," in *Hearing by Whales and Dolphins*, edited by W. Au, A.N. Popper, and R.R. Fay (Springer-Verlag, New York), pp. 43-108.
- Ketten, D.R., Simmons, J.A., Riquimaroux, H. and Simmons, A.M., 2021. Functional analyses of peripheral auditory system adaptations for echolocation in air vs. water. *Frontiers in Ecology and Evolution*, 9, p.661216.
- 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., Ward, W.D., Miller, J.D. and Eldredge, D.H., 1966. Hazardous exposure to intermittent and steady-state noise. *The Journal of the Acoustical Society of America*, 39(3), pp.451-464.
- Kryter, K.D. (1985). *The Effects of Noise on Man*. Academic Press, New York.

- Lankford, S.E., Adams, T.E., Miller, R.A. and Cech Jr, J.J., 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(4), pp.599-609.
- Lucke, K., U. Siebert, P.A. Lepper, and M-A.Blanchet. 2009. Temporary shift in masked hearing thresholds in a harbor porpoise (*Phocoena phocoena*) after exposure to seismic airgun stimuli. *Journal of the Acoustical Society of America* 125:4060-4070.
- Lusseau, D. and Bejder, L., 2007. The long-term consequences of short-term responses to disturbance experiences from whalewatching impact assessment. *International Journal of Comparative Psychology*, 20(2).
- 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.
- Malme, C. I., P. R. Miles, C. W. Clark, P. Tyack, and J. E. Bird. (1984). Investigations of the potential effects of underwater noise from petroleum industry activities on migrating gray whale behavior/Phase II: January 1984 migration. BBN Rep. 5586. Rep. from Bolt Beranek & Newman Inc., Cambridge, MA, for MMS, Alaska OCS Region, Anchorage, AK. NTIS PB86-218377.
- Matkin, C., J. Testa, G. Ellis, and E. Saulitis. 2014. Life history and population dynamics of southern Alaska resident killer whales (*Orcinus orca*). *Marine Mammal Science*. 30. 10.1111/mms.12049.
- Miller, J.D. 1974. Effects of noise on people. *Journal of the Acoustical Society of America* 56:729-764
- Miller, P.J.O., N. Biassoni, A. Samuels, and P.L. Tyack. (2000). Whale songs lengthen in response to sonar. *Nature* 405 (6789):903.
- Moberg, Gary P. "Biological response to stress: implications for animal welfare." 2000. In *The biology of animal stress: Basic principles and implications for animal welfare.*, pp. 1-21. Wallingford UK: CABI publishing, 2000.
- 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.
- 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(3), 1816-1826.
- 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. Crance, 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. Sheldon, 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.
- Nachtigall, P.E., Supin, A.Y., Pacini, A.F. and Kastelein, R.A., 2018. Four odontocete species change hearing levels when warned of impending loud sound. *Integrative zoology*, 13(2), pp.160-165.

- Nachtigall, P.E., A. Ya. Supin, J.L. Pawloski, and W.W.L. Au. 2004. Temporary threshold shifts after noise exposure in the bottlenose dolphin (*Tursiops truncatus*) measured using auditory evoked potentials. *Marine Mammal Science* 20:673-687.
- National Institute for Occupational Safety and Health, NIOSH (1998) Criteria for a recommended standard. Occupational exposure to noise. Revised Criteria. Cincinnati: USDHHS, PHS, CDC, NIOSH, publication no.98-126.
- NMFS. 2018. 2018 Revision 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. Dept. of Commer., NOAA Technical Memorandum NMFS-OPR-59, 167 p.
- NMFS/AFSC/MML/Alaska Ecosystem Program (2021). Counts of Alaska Steller sea lion adult and juvenile (non-pup) conducted on rookeries and haul-outs in Alaska Aleutian Islands, Bering Sea, and others from 1904-01-01 to 2019-07-03 (NCEI Accession 0128190). NOAA National Centers for Environmental Information. Dataset. <https://doi.org/10.7289/v54f1np1>. Accessed 3/2/2023.
- National Oceanic and Atmospheric Administration. 2023. Water temperature in Unalaska, AK (UNLA2). NOAA Center for Operational Oceanographic Products and Services. https://portal.aos.org/#metadata/12014/station/7/sensor?relative_time_code=full_timeseries&bin=months&chart=climatology&year=2022. Accessed 3/1/23.
- National Research Council. (2003). *Ocean Noise and Marine Mammals*. Washington, DC: National Academies Press.
- Nowacek, D.P., Johnson, M.P. and Tyack, P.L., 2004. North Atlantic right whales (*Eubalaena glacialis*) ignore ships but respond to alerting stimuli. *Proceedings of the Royal Society of London. Series B: Biological Sciences*, 271(1536), pp.227-231.
- Nowacek, D.P., L.H. Thorne, D.W. Johnston, and P.L. Tyack. (2007). Responses of cetaceans to anthropogenic noise. *Mammal Review*, 37(2), 81-115.
- Parks, S. E., C. W. Clark, and P. L. Tyack. (2007). Short- and long-term changes in right whale calling behavior: The potential effects of noise on acoustic communication. *The Journal of Acoustical Society of America*, 122(6), 3725–3731.
- Paxton, A. B., Taylor, J. C., Nowacek, D. P., Dale, J., Cole, E., Voss, C. M., & Peterson, C. H. (2017). Seismic survey noise disrupted fish use of a temperate reef. *Marine Policy*, 78, 68-73.
- Pearson, W.H., J.R. Salski, and C.I. Malme.1992. Effects of sounds from geophysical survey devices on behavior of captive rockfish. *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: 1174–1180.
- Popper, A.N. and Hastings, M.C., 2009. The effects of anthropogenic sources of sound on fishes. *Journal of fish biology*, 75(3), pp.455-489.
- Purser, J. and A.N. Radford. 2011. Acoustic noise induces attention shifts and reduces foraging performance in three-spined sticklebacks (*Gasterosteus aculeatus*). *PLoS ONE*, 6, (2):e17478.
- Reichmuth, C., M.M. Holt, J. Mulsow, J.M. Sills, and B.L. Southall. 2013. Comparative assessment of amphibious hearing in pinnipeds. *Journal of Comparative Physiology A*. Vol. 199(6): 491-507. <https://doi.org/10.1007/s00359-013-0813-y>.

- 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.
- Reichmuth, C., Sillis, 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(4), 2552-2561.
- Richardson, W. J., Greene, C. R. Jr, Malme, C. I., and Thomson, D. H. 1995. *Marine mammals and Noise*. Academic Press, San Diego, California. 576 pp
- Rolland, R.M., Parks, S.E., Hunt, K.E., Castellote, M., Corkeron, P.J., Nowacek, D.P., Wasser, S.K. and Kraus, S.D., 2012. Evidence that ship noise increases stress in right whales. *Proceedings of the Royal Society B: Biological Sciences*, 279(1737), pp.2363-2368.
- 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., Olschowka, J.A., Felten, S.Y., Quaranta, V., Ridgway, S.H. and Felten, D.L., 2002b. Immune response, stress, and environment: Implications for cetaceans. *Cell and Molecular Biology of Marine Mammals; CJ Pfeiffer, ed. Krieger Publishing Co., Inc.*
- Santulli, A., Modica, A., Messina, C., Ceffa, L., Curatolo, A., Rivas, G., Fabi, G. and D'amelio, V., 1999. Biochemical responses of European sea bass (*Dicentrarchus labrax* L.) to the stress induced by off shore experimental seismic prospecting. *Marine Pollution Bulletin*, 38(12), pp.1105-1114.
- Schlundt, C.E., Finneran, J.J., Carder, D.A. and Ridgway, S.H., 2000. Temporary shift in masked hearing thresholds of bottlenose dolphins, *Tursiops truncatus*, and white whales, *Delphinapterus leucas*, after exposure to intense tones. *The Journal of the Acoustical Society of America*, 107(6), pp.3496-3508.
- Scholik, A.R. and Yan, H.Y., 2002. Effects of boat engine noise on the auditory sensitivity of the fathead minnow, *Pimephales promelas*. *Environmental Biology of Fishes*, 63, pp.203-209.
- Scholik, A.R. and Yan, H.Y., 2001. The effects of underwater noise on auditory sensitivity of fish. *Proceedings of the Institute of Acoustics*, 23, pp.27-36.
- Seyle H (1950) Stress and the general adaptation syndrome. *J Brit Med* 1:1383–1392
- Sillis, 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(5), 2973-2986.
- Skalski, J.R., Pearson, W.H. and Malme, C.I., 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(7), pp.1357-1365.
- Small, Robert & Boveng, Peter & Byrd, G. & Withrow, David. (2008). Harbor seal population decline in the Aleutian Archipelago. *Marine Mammal Science*. 24. 845 - 863. 10.1111/j.1748-7692.2008.00225.x.

- Smith, M. E., Accomando, A. W., Bowman, V., Casper, B. M., Dahl, P. H., Jenkins, A. K., ... & Popper, A. N. (2022). Physical effects of sound exposure from underwater explosions on Pacific mackerel (*Scomber japonicus*): Effects on the inner ear. *The Journal of the Acoustical Society of America*, 152(2), 733-744.
- Southall, B.L., Nowacek, D.P., Bowles, A.E., Senigaglia, V., Bejder, L. and Tyack, P.L., 2021. Marine mammal noise exposure criteria: assessing the severity of marine mammal behavioral responses to human noise. *Aquatic Mammals*, 47(5), pp.421-464.
- Southall, B.L., Finneran, J.J., Reichmuth, C., Nachtigall, P.E., Ketten, D.R., Bowles, A.E., Ellison, W.T., Nowacek, D.P. and Tyack, P.L., 2019. Marine mammal noise exposure criteria: Updated scientific recommendations for residual hearing effects. *Aquatic Mammals*, 45(2), pp.125-232.
- Southall, B., A. Bowles, W. Ellison, J. Finneran, R. Gentry, C. Greene, Jr., D. Kastak, D. Ketten, J. Miller, P. Nachtigall, W. Richardson, J. Thomas, and P. Tyack. 2007. Marine mammal noise exposure criteria: initial scientific recommendations. *Aquatic Mammals* 33:411-521.
- Straley, J.M., J.R. Moran, K.M. Boswell, J.J. Vollenweider, R.A Heintz, T.J. Quinn, B.H. Witteveen, 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 Res. Part II: Topical Studies in Oceanography*. 147: 173-186.
- Stone, G. S., L. Cavagnaro, A. Hutt, S. Kraus, K. Baldwin, and J. Brown. (2000). Reactions of Hector's dolphins to acoustic gillnet pingers. New Zealand Department of Conservation: 28.
- Sturdevant, M.V., and Landingham, J.H. (1993). Temperature, Salinity, and Zooplankton as Indicators of Environmental Suitability for Release of Hatchery-reared Juvenile Salmonids near Juneau, Alaska. AFSC Processed Report 93-10. Alaska Fisheries Science Center, National Marine Fisheries Service, Auke Bay Laboratory, Juneau, Alaska, 27pp.
- Teilmann, J., J. Tougaard, L. A. Miller, T. Kirketerp, K. Hansen, and S. Brando. (2006). Reactions of captive harbor porpoises (*Phocoena phocoena*) to pinger-like sounds. *Marine Mammal Science*, 22(2), 240–260.
- 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.
- United States Army Corps of Engineers (USACE). 2019. Final Feasibility Report and Draft Environmental Assessment. Unalaska (Dutch Harbor) Channels. Unalaska, Alaska.
- United States Army Corps of Engineers (USACE). 2020. Marine Mammal Monitoring Report for the Statter Harbor Phase IIIA Project of the City and Borough of Juneau. Prepared by Daniel Michrowski and Shannon Easterly.
- United States Army Corps of Engineers (USACE). 2022. Request for an Incidental Harassment Authorization under the Marine Mammal Protection Act for Unalaska (Dutch Harbor) Channels, Unalaska, Alaska. October 2022.
- United States Army Corps of Engineers (USACE). 2023. Marine Mammal Monitoring and Mitigation Plan. Unalaska (Dutch Harbor) Channels. Unalaska, Alaska. February 2023.
- Wade, P. R., T. J. Quinn II, J. Barlow, C. S. Baker, A. M. Burdin, J. Calambokidis, P. J. Clapham, E. Falcone, J. K. B. Ford, C. M. Gabriele, R. Leduc, D. K. Mattila, L. Rojas-Bracho, J. Straley, B. L. Taylor, J. Urbán R., D. Weller, B. H. Witteveen, and M. Yamaguchi. 2016. Estimates of abundance and migratory destination for North Pacific

- humpback whales in both summer feeding areas and winter mating and calving areas. Paper SC/66b/IA21 submitted to the Scientific Committee of the International Whaling Commission, June 2016, Bled, Slovenia. Available at <https://archive.iwc.int/>.
- Wade, P. 2021. Estimates of abundance and migratory destination for North Pacific humpback whales in both summer feeding areas and winter mating and calving areas. International Whaling Commission. SC/68c/IA/03. 32p. <https://archive.iwc.int/>.
- Ward, W.D., 1960. A comment on Kylin's monograph on temporary threshold shift. *Acta Oto-Laryngologica*, 52(1-6), pp.281-282.
- Ward, W. D. (1997). Effects of high intensity sound. In M. J. Crocker (Ed.) *Encyclopedia of acoustics*, (Volume III, pp. 1497–1507). New York: John Wiley & Sons.
- Wardle, C.S., Carter, T.J., Urquhart, G.G., Johnstone, A.D.F., Ziolkowski, A.M., Hampson, G. and Mackie, D., 2001. Effects of seismic air guns on marine fish. *Continental shelf research*, 21(8-10), pp.1005-1027.
- 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 Ketten, D.R., 1999. Marine mammal sensory systems. *Biology of marine mammals*, 1, pp.117-175.
- Weilgart, L.S., 2007. The impacts of anthropogenic ocean noise on cetaceans and implications for management. *Canadian journal of zoology*, 85(11), pp.1091-1116.
- Weston, D.E. (1960). Underwater Explosions as Acoustic Sources. *Proceedings of the Physical Society*, 76(2): 233.
- Womble, J. N., & Gende, S. (2009). Harbor seal (*Phoca vitulina richardii*) decline continues in the rapidly changing landscape of Glacier Bay National Park, Alaska... *Marine Mammal Science*, 26(3), 686-697.
- 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.
- Viada, S.T., R.M. Hammer, R. Racca, D. Hannay, M.J. Thompson, B.J. Balcom, and N.W. Phillips. 2008. Review of potential impacts to sea turtles from underwater explosive removal of offshore structures. *Environmental Impact Assessment Review* 28: 267-285.
- von Benda-Beckmann, A. M., Aarts, G., Sertlek, H. Ö., Lucke, K., Verboom, W. C., Kastelein, R. A., ... & Ainslie, M. A. (2015). Assessing the impact of underwater clearance of unexploded ordnance on harbour porpoises (*Phocoena phocoena*) in the Southern North Sea. *Aquatic Mammals*, 41(4), 503.
- Yazvenko, S.B., McDonald, T.L., Blokhin, S.A., Johnson, S.R., Melton, H.R., Newcomer, M.W., Nielson, R. and Wainwright, P.W., 2007. Feeding of western gray whales during a seismic survey near Sakhalin Island, Russia. *Environmental Monitoring and Assessment*, 134, pp.93-106.
- Yelverton, J. T., D. R. Richmond, E. R. Fletcher, and R. K. Jones. (1973). Safe distances from underwater explosions for mammals and birds. Albuquerque, NM: Lovelace Foundation for Medical Education and Research.
- Zelick, R., Mann, D.A. and Popper, A.N., 1999. Acoustic communication in fishes and frogs. *Comparative hearing: fish and amphibians*, pp.363-411.