

## Hydaburg Seaplane Base Refurbishment Project - References

ADF&G (Alaska Department of Fish and Game). 1997. Overview of information about subsistence uses of marine mammals in Aleutian/Pribilof Islands communities. Unpublished report. Available at: <http://www.subsistence.adfg.state.ak.us/download/download/mmap.pdf>. Accessed 28

ADF&G. 2009a. The subsistence harvest of harbor seals and sea lions by Alaska Natives in 2007. Technical Paper No. 345 from Alaska Department of Fish and Game, Division of Subsistence and Alaska Native Harbor Seal Commission. Available at: <http://www.adfg.alaska.gov/techpap/TP345.pdf>

ADF&G. 2009b. 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. 2022. Subsistence in Alaska: Harvest Data and Reports. Available at: <http://www.adfg.alaska.gov/index.cfm?adfg=subsistence.harvest>. Accessed: March 2022.

Ahroon, W.A., Hamernik, R.P., Lei, S.F., 1996. The effects of reverberant blast waves on the auditory system. *The Journal of the Acoustical Society of America* 100, 2247-2257.

Allen, B.M., Angliss, R.P., 2010. Alaska marine mammal stock assessments, 2009. NOAA Technical Memorandum NMFS-AFSC-233. National Marine Fisheries Service, Seattle, WA.

ANSI (American National Standards Institute). 1986. *Methods of Measurement for Impulse Noise (ANSI S12.7-1986)*. New York: Acoustical Society of America.

ANSI. 1995. *Bioacoustical Terminology (ANSI S3.20- 1995)*. New York: Acoustical Society of America.

ANSI. 2005. *Measurement of Sound Pressure Levels in Air (ANSI S1.13-2005)*. New York: Acoustical Society of America.

ANSI. 2013. *Performance and Calibration of Reference Sound Sources*, Acoustical Society of America, Woodbury, NY.

Archer, F.I., Mesnick, S.L., Allen, A.C., 2010. Variation and predictors of vessel-response behavior in a tropical dolphin community. NOAA technical memorandum NMFS. NOAA-TM-NMFS-SWFSC-457. <https://repository.library.noaa.gov/view/noaa/3747>

Au, W.W., Hastings, M.C., 2008. *Principles of Marine Bioacoustics*. Springer.

Beauchamp, G., Livoreil, B., 1997. The effect of group size on vigilance and feeding rate in spice finches (*Lonchura punctulata*). *Canadian Journal of Zoology* 75, 1526-1531.

Bejder, L., Samuels, A., Whitehead, H., Gales, N., 2006. Interpreting short-term behavioural responses to disturbance within a longitudinal perspective. *Animal behaviour* 72, 1149-1158.

Bejder, L., Samuels, A., Whitehead, H., Finn, H., Allen, S., 2009. Impact assessment research: use and misuse of habituation, sensitisation and tolerance in describing wildlife responses to anthropogenic stimuli. *Marine Ecology Progress Series* 395, 177-185.

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, and P. R Wade. 2015. Status review of the humpback whale (*Megaptera novaeangliae*) under the Endangered Species Act. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-SWFSC-540, 240 p.

Bigg, M. A., 1969. The harbor seal in British Columbia. *Bull. Fish. Res. Board Can.* 172:1-33.

Bigg, M. A., 1981. Harbour seal: *Phoca vitulina* Linnaeus, 1758, and *Phoca largha* Pallas, 1811, p. 1-27. In S. H. Ridgway and R. J. Harrison (eds.), *Handbook of Marine Mammals. Volume 2: Seals*. Academic Press, London, UK.

Bjørge, A., Tolley, K.A., 2009. Harbor porpoise: *Phocoena phocoena*. In *Encyclopedia of marine mammals* (pp. 530-533). Academic Press.

Blackwell, S., Lawson, J.W., Williams, M.T., 2004. Tolerance by ringed seals (*Phoca hispida*) to impact pipe-driving and construction sounds at an oil production island. *Journal of Acoustical Society of America* 115, 2346-2357.

Blecha, F., 2000. Immune system response to stress, *The biology of animal stress: basic principles and implications for animal welfare.*, CABI Publishing Wallingford UK, pp. 111-121.

Boveng, P. L., J. M. London, Ver Hoef, J.M., 2012. Distribution and abundance of harbor seals in Cook Inlet, Alaska. Task III: Movements, marine habitat use, diving behavior, and population structure, 2004-2006. Final Report. BOEM Report 2012-065. Bureau of Ocean Energy Management, Alaska Outer Continental Shelf Region, Anchorage, AK. 58 p.

Bowers, M.T., Friedlaender, A.S., Janik, V.M., Nowacek, D.P., Quick, N.J., Southall, B.L., Read, A.J., 2018. Selective reactions to different killer whale call categories in two delphinid species. *Journal of Experimental Biology* 221, jeb162479.

Bowles, A.E., Smultea, M., Würsig, B., DeMaster, D.P., Palka, D., 1994. Relative abundance and behavior of marine mammals exposed to transmissions from the Heard Island Feasibility Test. *The Journal of the Acoustical Society of America* 96, 2469-2484.

Bradshaw, C.J., Boutin, S., Hebert, D.M., 1998. Energetic implications of disturbance caused by petroleum exploration to woodland caribou. *Canadian Journal of Zoology* 76, 1319-1324.

Branstetter, B.K., Trickey, J.S., Bakhtiari, K., Black, A., Aihara, H., Finneran, J.J., 2013. Auditory masking patterns in bottlenose dolphins (*Tursiops truncatus*) with natural, anthropogenic, and synthesized noise. *The Journal of the Acoustical Society of America* 133, 1811-1818.

Burton, W.H., 1993. Effects of bucket dredging on water quality in the Delaware River and the potential for effects on fisheries resources. Versar. Inc., Columbia, Maryland.

CALTRANS (California Department of Transportation), 2015. Technical Guidance for Assessment and Mitigation of the Hydroacoustic Effects of Pile Driving on Fish. , In: Molnar, M., Buehler, D., R. Oestman, J. Reyff, K. Pommerenck, B. Mitchell. (Ed.), California Department of Transportation.

CALTRANS, 2020. Technical Guidance for Assessment and Mitigation of the Hydroacoustic Effects of Pile Driving on Fish. , In: Molnar, M., Buehler, D., R. Oestman, J. Reyff, K. Pommerenck, B. Mitchell. (Ed.), California Department of Transportation.

Carlson, T., Woodruff, D., Johnson, G., Kohn, N., Ploskey, G., Weiland, M., Southard, J., Southard, S., 2005. Hydroacoustic measurements during pile driving at the Hood Canal Bridge, September through November 2004, Battelle Marine Sciences Laboratory Sequim, WA.

Carretta, J.V., Oleson, E.M., Forney, K.A., Muto, M.M., Weller, D.W., Lang, A.R., Baker, J., Hanson, B., Orr, A.J., Barlow, J., Moore, J.E., Brownell Jr., R.L., 2022. U.S. Pacific marine mammal stock assessments: 2021. U.S. Department of Commerce, NOAA Technical Memorandum NMFS-SWFSC-663. <https://doi.org/10.25923/246k-7589>

Carretta, James V., Erin M. Oleson, Karin A. Forney, David W. Weller, Aimée R. Lang, Jason Baker, Anthony J. Orr, Brad Hanson, Jay Barlow, Jeffrey E. Moore, Megan Wallen, and Robert L. Brownell Jr. 2023. U.S. Pacific marine mammal stock assessments: 2022. U.S. Department of Commerce, NOAA Technical Memorandum NMFS-SWFSC-684. <https://doi.org/10.25923/5ysf-gt95>

Casper, B.M., Halvorsen, M.B., Matthews, F., Carlson, T.J., Popper, A.N., 2013. Recovery of barotrauma injuries resulting from exposure to pile driving sound in two sizes of hybrid striped bass. *PloS one* 8, e73844.

Clark, C.W., Ellison, W.T., Southall, B.L., Hatch, L., Van Parijs, S.M., Frankel, A., Ponirakis, D., 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, 602-606.

Costa, D.P., Crocker, D.E., Gedamke, J., Webb, P.M., Houser, D.S., Blackwell, S.B., Waples, D., Hayes, S.A., Le Boeuf, B.J., 2003. The effect of a low-frequency sound source (acoustic thermometry of the ocean climate) on the diving behavior of juvenile northern elephant seals, *Mirounga angustirostris*. *The Journal of the Acoustical Society of America* 113, 1155-1165.

Cott, P.A., Popper, A.N., Mann, D.A., Jorgenson, J.K., Hanna, B.W., 2012. Impacts of river-based air gun seismic activity on northern fishes, *The Effects of Noise on Aquatic Life*, Springer, pp. 367-369.

- Croll, D.A., Clark, C.W., Calambokidis, J., Ellison, W.T., Tershy, B.R., 2001. Effect of anthropogenic low-frequency noise on the foraging ecology of Balaenoptera whales. *Animal Conservation* 4, 13-27.
- Daan, S., Deerenberg, C., Dijkstra, C., 1996. Increased daily work precipitates natural death in the kestrel. *Journal of animal ecology*, 539-544.
- Dahlheim, M., York, A., Towell, R., Waite, J., Breiwick, J., 2000. Harbor porpoise (*Phocoena phocoena*) abundance in Alaska: Bristol Bay to Southeast Alaska, 1991-1993. *Marine Mammal Science* 16:28-45.
- Dahlheim, M.E., White, P.A., Waite, J.M., 2009. Cetaceans of Southeast Alaska: distribution and seasonal occurrence. *Journal of Biogeography* 36:410–426.
- Dahlheim, M.E., Zerbini, A.N., Waite, J.M., Kennedy, A.S., 2015. Temporal changes in abundance of harbor porpoise (*Phocoena phocoena*) inhabiting the inland waters of Southeast Alaska. *Fishery Bulletin* 113(3):242-255.
- Denes, S.L., Warner, D.J., Austin, M.E., MacGillivray, A.O., 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.
- Di Iorio, L., Clark, C.W., 2010. Exposure to seismic survey alters blue whale acoustic communication. *Biology letters* 6, 51-54.
- DOT&PF (Alaska Department of Transportation and Public Facilities). 2021. Protected Species Final Monitoring Report: Phase 1 October 2020 – February 2021 DRAFT.
- DOT&PF. 2022. Protected Species Final Monitoring DRAFT Report: Tongass Narrows Ferry Berth Improvements Phase 1 Incidental Harassment Authorization Renewal April 2021 – February 2022.
- Ellison, W., Southall, B., Clark, C., Frankel, A., 2012. A new context-based approach to assess marine mammal behavioral responses to anthropogenic sounds. *Conservation Biology* 26, 21-28.
- England, G.R., Evans, D., Lautenbacher, C., Morrissey, S., Hogarth, W., 2001. Joint interim report Bahamas marine mammal stranding event of 15-16 March 2000. US Department of Commerce, US Secretary of the Navy.
- Erbe, C., 2008. Critical ratios of beluga whales (*Delphinapterus leucas*) and masked signal duration. *The Journal of the Acoustical Society of America* 124, 2216-2223.
- Erbe, C., Reichmuth, C., Cunningham, K., Lucke, K., Dooling, R., 2016. Communication masking in marine mammals: A review and research strategy. *Marine pollution bulletin* 103, 15-38.
- Erbe, C., Thomas, J.A., 2022. *Exploring Animal Behavior Through Sound: Volume 1: Methods*. Springer Nature.

- Fair, P.A., Becker, P.R., 2000. Review of stress in marine mammals. *Journal of Aquatic Ecosystem Stress and Recovery* 7, 335-354.
- Fay, R., 2009. Soundscapes and the sense of hearing of fishes. *Integrative Zoology* 4, 26-32.
- Fay, R.R., Popper, A.N., Webb, J.F., 2008. Introduction to fish bioacoustics. *Fish Bioacoustics: With 81 Illustrations*, 1-15.
- Ferrero, R.C., Walker, W.A., 1996. Age, growth, and reproductive patterns of the Pacific whitesided dolphin (*Lagenorhynchus obliquidens*) taken in high seas drift nets in the central North Pacific Ocean. *Canadian Journal of Zoology* 74:1673-1687, <https://doi.org/10.1139/z96-185>
- Fewtrell, J.L., McCauley, R.D., 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. *The Journal of the Acoustical Society of America* 138, 1702-1726.
- Finneran, J.J., Schlundt, C.E., Carder, D.A., Clark, J.A., Young, J.A., Gaspin, J.B., Ridgway, S.H., 2000. Auditory and Behavioral Responses of Bottlenose Dolphins (*Tursiops truncatus*) and a Belga Whale (*Delphinapterus leucas*) to Impulsive Sounds Resembling Distant Signatures of Underwater Explosions. *J. Acoust. Soc. Am.* 108, 417-431.
- Finneran, J.J., Schlundt, C.E., Dear, R., Carder, D.A., Ridgway, S.H., 2002. Temporary Shift in Masked Hearing Thresholds in Odontocetes After Exposure to Single Underwater Impulses From a Seismic Watergun. *J. Acoust. Soc. Am.* 111, 2929-2940.
- Finneran, J.J., Dear, R., Carder, D.A., Ridgway, S.H., 2003. Auditory and Behavioral Responses of California Sea Lions (*Zalophus californianus*) to Single Underwater Impulses From an Arc-Gap Transducer. *J. Acoust. Soc. Am.* 114, 1667-1677.
- 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., 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.
- Fisher, H.D., 1952. The status of the harbour seal in British Columbia, with particular reference to the Skeena River. *Bull. Fish. Res. Board Can.* 93:1-58.
- Foote, A.D., Osborne, R.W., Hoelzel, A.R., 2004. Whale-call response to masking boat noise. *Nature* 428, 910.

- Ford, J.K., Reeves, R.R., 2008. Fight or flight: antipredator strategies of baleen whales. *Mammal Review* 38, 50-86.
- Frankel, A., Clark, C., 2000. Behavioral responses of humpback whales (*Megaptera novaeangliae*) to full-scale ATOC signals. *The Journal of the Acoustical Society of America* 108, 1930-1937.
- Fristrup, K.M., Hatch, L.T., Clark, C.W., 2003. Variation in humpback whale (*Megaptera novaeangliae*) song length in relation to low-frequency sound broadcasts. *The Journal of the Acoustical Society of America* 113, 3411-3424.
- Fritz, H., Guillemain, M., Durant, D., 2002. The cost of vigilance for intake rate in the mallard (*Anas platyrhynchos*): an approach through foraging experiments. *Ethology Ecology & Evolution* 14, 91-97.
- Gailey, G., Würsig, B., McDonald, T.L., 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.
- Goldbogen, J.A., Friedlaender, A.S., Calambokidis, J., McKenna, M.F., Simon, M., Nowacek, D.P., 2013a. Integrative approaches to the study of baleen whale diving behavior, feeding performance, and foraging ecology. *BioScience* 63, 90-100.
- Goldbogen, J.A., Southall, B.L., DeRuiter, S.L., Calambokidis, J., Friedlaender, A.S., Hazen, E.L., Falcone, E.A., Schorr, G.S., Douglas, A., Moretti, D.J., 2013b. Blue whales respond to simulated mid-frequency military sonar. *Proceedings of the Royal Society B: Biological Sciences* 280, 20130657.
- Gomez, C., Lawson, J., Wright, A.J., Buren, A., Tollit, D., Lesage, V., 2016. A systematic review on the behavioural responses of wild marine mammals to noise: the disparity between science and policy. *Canadian Journal of Zoology* 94, 801-819.
- 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, 811-820.
- Graham, I.S., Pirotta, E., Merchant, N.D., Farcas, A., Barton, T.R., Cheney, B., Hastie, G.D., Thompson, P.M., 2017. Responses of bottlenose dolphins and harbor porpoises to impact and vibration piling noise during harbor construction. *Ecosphere* 8(5):e01793.
- Guan, S., Brookens, T., Miner, R., 2022. Acoustic characteristics from an in-water down-the-hole pile drilling activity. *Journal of the Acoustical Society of America* 151:310-320.
- Halvorsen, M.B., Casper, B.M., Woodley, C.M., Carlson, T.J., Popper, A.N., 2012a. Threshold for onset of injury in Chinook salmon from exposure to impulsive pile driving sounds. *PLoS One* 7, e38968.

- Halvorsen, M.B., Zeddies, D.G., Ellison, W.T., Chicoine, D.R., Popper, A.N., 2012b. Effects of mid-frequency active sonar on hearing in fish. *The Journal of the Acoustical Society of America* 131, 599-607.
- Harrington, F.H., Veitch, A.M., 1992. Calving success of woodland caribou exposed to low-level jet fighter overflights. *Arctic*, 213-218.
- Hastings, K.K., Frost, K.J., Simpkins, M.A., Pendleton, G.W., Swain, U.G., Small, R.J., 2004. Regional differences in diving behavior of harbor seals in the Gulf of Alaska. *Can. J. Zool.* 82:1755-1773.
- Hastings, M.C., Popper, A.N., 2005. Effects of sound on fish, California Department of Transportation.
- Hatch, L.T., Clark, C.W., Van Parijs, S.M., Frankel, A.S., Ponirakis, D.W., 2012. Quantifying loss of acoustic communication space for right whales in and around a US National Marine Sanctuary. *Conservation Biology* 26, 983-994.
- Hemilä, S., Nummela, S., Berta, A., 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, 3463-3466.
- Henderson, D., Hu, B., Bielefeld, E., 2008. Patterns and mechanisms of noise-induced cochlear pathology. *Auditory trauma, protection, and repair*, 195-217.
- Heyvaert, C., Reyff, J., 2021. Tenakee Ferry Terminal Improvements Project; Pile Driving and Drilling Sound Source Verification, Tenakee Springs, Alaska. Technical report by Illingworth & Rodkin, Inc., Cotati, CA for the Alaska Department of Transportation and Public Facilities. 217 pp.
- Hindell, M.A., Perrin, W.F., 2009. Elephant Seals: *Mirounga angustirostris* and *M. leonina*. In *Encyclopedia of marine mammals* (pp. 364-368). Academic Press.
- Hobbs, R.C., 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.
- Hoelzel, A.R., Fleischer, R.C., Campagna, C., Le Boeuf, B.J., Alvord, G., 2002. Impact of a population bottleneck on symmetry and genetic diversity in the northern elephant seal. *Journal of Evolutionary Biology*, 15(4), 567-575.
- Holberton, R.L., Helmuth, B., Wingfield, J.C., 1996. The corticosterone stress response in gentoo and king penguins during the non-fasting period. *Condor*, 850-854.
- Holt, M.M., Noren, D.P., Veirs, V., Emmons, C.K., Veirs, S., 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, EL27-EL32.

- Hood, L.C., Boersma, P.D., Wingfield, J.C., 1998. The adrenocortical response to stress in incubating Magellanic penguins (*Spheniscus magellanicus*). *The Auk* 115, 76-84.
- Hotchkin, C., Parks, S., 2013. The Lombard effect and other noise-induced vocal modifications: insight from mammalian communication systems. *Biological Reviews* 88, 809-824.
- Houser, D.S., 2014. Workshop on the Current Status and Future of Underwater Hearing Research.
- Huber, H.R., Rovetta, A.C., Fry, L.A., Johnston, S., 1991. Age-specific natality of northern elephant seals at the South Farallon Islands, California. *J. Mamm.* 72(3):525-534.
- ISO (International Organization for Standardization), 2017. 1996 - 2:2017 Acoustics - Description, measurement, and assessment of environmental noise - Part 2: Determination of sound pressure levels, International Organization for Standardization.
- Jefferson, T.A., 2009. Dall's porpoise *Phocoenoides dalli*. In W.F. Perrin, B. Würsig, and J.G. M. Thewissen (Editors), *Encyclopedia of marine mammals*, 2nd ed., pp. 296–298. Academic Press, New York, NY.
- Jefferson, T.A., Webber, M.A., Pitman, R.L., 2008. *Marine Mammals of the World: a Comprehensive Guide to their Identification*. Academic Press, Elsevier, UK.
- Jefferson, T.A., Dahleim, 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. Dep Commer., NOAA Technical Memorandum NMFS-AFSC-385, 45 p.
- Jemison, L.A., Pendleton, G.W., Fritz, L.W., Hastings, K.K., Maniscalco, J.M., Trites, A.W., Gelatt, T.S., 2013. Inter-population movements of Steller sea lions in Alaska, with implications for population separation. *PLoS ONE* 8(8):e70167.
- Jessop, T.S., Tucker, A.D., Limpus, C.J., 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, 161-170.
- Jorgenson, J.K., 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, 1598-1606.
- 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., 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., Mulsow, J., Ghou, A., Reichmuth, C., 2008. Noise-induced permanent threshold shift in a harbor seal. *The Journal of the Acoustical Society of America* 123, 2986-2986.

Kastelein, R., De Haan, D., Vaughan, N., Staal, C., Schooneman, N., 2001. The influence of three acoustic alarms on the behaviour of harbour porpoises (*Phocoena phocoena*) in a floating pen. *Marine Environmental Research* 52, 351-371.

Kastelein, R.A., Verboom, W.C., Muijsers, M., Jennings, N.V., van der Heul, S., 2005. The influence of acoustic emissions for underwater data transmission on the behavior of harbour porpoises (*Phocoena phocoena*) in a floating pen. *Marine Environmental Research* 59, 287-307.

Kastelein, R.A., Jennings, N.V., Verboom, W.C., de Haan, D., Schooneman, N.M., 2006. Differences in the response of a striped dolphin (*Stenella coeruleoalba*) and a harbour porpoise (*Phocoena phocoena*) to an acoustic alarm. *Marine Environmental Research* 61, 363-378.

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.

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., 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., Huijser, L.A., Terhune, J.M., 2019b. 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., 2019c. 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., 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., 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., 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.

Ketten, D.R., Simmons, J.A., Riquimaroux, H., Simmons, A.M., 2021. Functional analyses of peripheral auditory system adaptations for echolocation in air vs. water. *Frontiers in Ecology and Evolution* 9, 661216.

Klinkhart, E., Pitcher, K., Blundell, G., 2008. Harbor Seal. Alaska State Dept. of Fish and Game. Revised and reprinted 2008. Available at: [https://www.adfg.alaska.gov/static/education/wns/harbor\\_seal.pdf](https://www.adfg.alaska.gov/static/education/wns/harbor_seal.pdf).

Krausman, P.R., Harris, L.K., Blasch, C.L., Koenen, K.K., Francine, J., 2004. Effects of military operations on behavior and hearing of endangered Sonoran pronghorn. *Wildlife Monographs* 157, 1-41.

Kryter, K.D., 2013. *The effects of noise on man*. Elsevier.

Kryter, K.D., Ward, W.D., Miller, J.D., Eldredge, D.H., 1966. Hazardous exposure to intermittent and steady-state noise. *The Journal of the Acoustical Society of America* 39, 451-464.

Lankford, S., Adams, T., Miller, R., Cech Jr, 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, 599-609.

Leatherwood, S., Reeves, R.R., Bowles, A.E., Stewart, B.S., Goodrich, K.R., 1984. Distribution, seasonal movements, and abundance of Pacific white-sided dolphins in the eastern North Pacific. *The Scientific Reports of the Whales Research Institute* 35:129–157.

Le Boeuf, B.J., Crocker, D.E., Costa, D.P., Blackwell, S.B., Webb, P.M., Houser, D.S., 2000. Foraging ecology of northern elephant seals. *Ecological monographs*, 70(3), 353-382.

Lowry, L.F., Frost, K.J., Ver Hoef, J.M., DeLong, R.A., 2001. Movements of satellite-tagged subadult and adult harbor seals in Prince William Sound, Alaska. *Marine Mammal Science* 17:835-861.

Lowry, M.S., Jaime, E.M., Nehasil, S.E., Betcher, A., Condit, R., 2020. Winter surveys at the Channel Islands and Point Conception reveal population growth of northern elephant seals and residence counts of other pinnipeds. U.S. Department of Commerce, NOAA Technical Memorandum NMFSSWFSC-627.

Lusseau, D., Bejder, L., 2007. The long-term consequences of short-term responses to disturbance experiences from whalewatching impact assessment. *International Journal of Comparative Psychology* 20.

- Madsen, P.T., 2005. Marine mammals and noise: Problems with root mean square sound pressure levels for transients. *Journal of the Acoustical Society of America* 117, 3952-3957.
- Madsen, P.T., Johnson, M., Miller, P., Aguilar Soto, N., Lynch, J., Tyack, P., 2006. Quantitative measures of air-gun pulses recorded on sperm whales (*Physeter macrocephalus*) using acoustic tags during controlled exposure experiments. *The Journal of the Acoustical Society of America* 120, 2366-2379.
- Malme, C.I., Miles, P.R., Clark, C.W., Tyack, P., Bird, J.E., 1984. Investigations of the potential effects of underwater noise from petroleum-industry activities on migrating gray-whale behavior. Phase 2: January 1984 migration, United States, p. Medium: X; Size: Pages: 356.
- Martien, K. K., B. L. Taylor, F. I. Archer, K. Audley, J. Calambokidis, T. Cheeseman, J. De Weerd, A. Frisch Jordán, P. Martínez-Loustalot, C. D. Ortega-Ortiz, E. M. Patterson, N. Ransome, P. Ruvelas, J. Urbán Ramírez, and F. Villegas-Zurita. 2021. Evaluation of Mexico Distinct Population Segment of Humpback Whales as units under the Marine Mammal Protection Act. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-SWFSC-658.DOI: [doi.org/10.25923/nvw1-mz45](https://doi.org/10.25923/nvw1-mz45)
- Merrick, R.L., Loughlin, T.R., 1997. Foraging behavior of adult female and young-of-the-year Steller sea lions in Alaskan waters. *Canadian Journal of Zoology* 75:776–786.
- Miller, J.D., 1974. Effects of noise on people. *The Journal of the Acoustical Society of America* 56, 729-764.
- Miller, P.J., Biassoni, N., Samuels, A., Tyack, P.L., 2000. Whale songs lengthen in response to sonar. *Nature* 405, 903-903.
- Miller, S., Robertson, T., Higman, B., Chartier, A., Fletcher, S., 2019. Southeast Alaska Vessel Traffic Risk Analysis: Report to Alaska Department of Environmental Conservation. Prepared by: Nuka Research and Planning Group, LLC.
- Miner, R., 2023. Underwater Measurements of Sound Steel Piles and a Down-the-Hole Hammer, June 19, 2022 NOAA Fairweather Homeport Recapitalization Project. January 18, 2023. Robert Miner Dynamic Testing of Alaska, Inc.
- Mitson, R.B., 1995. Underwater noise of research vessels: review and recommendations. ICES Cooperative Research Reports (CRR).
- Moberg, G.P., 1987. Influence of the adrenal axis upon the gonads. *Oxford reviews of reproductive biology* 9, 456-496.
- Moberg, G.P., Mench, J.A. eds., 2000. *The biology of animal stress: basic principles and implications for animal welfare*. CABI publishing.
- 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.

- Moran, J.R., O'Dell, M.B., Arimitsu, M.L., Straley, J.M., Dickson, D.M.S., 2018. Seasonal distribution of Dall's porpoise in Prince William Sound, Alaska. *Deep-Sea Research Part II* 147:164-172.
- Morton, A., 2006. Occurrence, photo-identification and prey of Pacific white-sided dolphins (*Lagenorhynchus obliquidens*) in the Broughton Archipelago, Canada 1984-1998. *Marine Mammal Science* 16:80-93.
- Morton, A.B., Symonds, H.K., 2002. Displacement of *Orcinus orca* (L.) by high amplitude sound in British Columbia, Canada. *ICES Journal of Marine Science* 59, 71-80.
- Muto, M.M., Helker, V.T., Delean, B.J., Young, N.C., Freed, J.C., Angliss, R.P., Friday, N.A., Boveng, P.L., Breiwick, J.M., Brost, B.M., Cameron, M.F., Clapham, P.J., Crance, J.L., Dahle, S.P., Dahlheim, M.E., Fadely, B.S., Ferguson, M.C., Fritz, L.W., Goetz, K.T., Hobbs, R.C., Ivashchenko, Y.V., Kennedy, A.S., London, J.M., Mizroch, S.A., Ream, R.R., Richmond, E.L., Shelden, K.E.W., Sweeney, K.L., Towell, R.G., Wade, P.R., Waite, J.M., Zerbini, A.N., 2022. Alaska marine mammal stock assessments, 2021. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-FAFSC-441, 295 p.
- Nachtigall, P.E., Supin, A.Y., Pacini, A.F., Kastelein, R.A., 2018. Four odontocete species change hearing levels when warned of impending loud sound. *Integrative zoology* 13, 160-165.
- Navy (U.S. Department of the 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., Edwards, B., 2002. Measurements of underwater noise in the Arun River during piling at County Wharf, Littlehampton. Report by Subacoustech, Ltd. to David Wilson Homes Ltd.
- Ng, S.L., Leung, S., 2003. Behavioral response of Indo-Pacific humpback *dolphin* (*Sousa chinensis*) to vessel traffic. *Marine environmental research* 56, 555-567.
- NIOSH (National Institute for Occupational Safety and Health), 1998. Criteria for a recommended standard: Occupational noise exposure. Cincinnati, Ohio: United States Department of Health and Human Services.
- NMFS (National Marine Fisheries Service). 2012. Guidance Document: Data Collection Methods to Characterize Underwater Background Sound Relevant to Marine Mammals in Coastal Nearshore Waters and Rivers of Washington and Oregon. NMFS Northwest Region and Northwest Fisheries Science Center. Pp 5.
- NMFS. 2016a. Killer whale (*Orcinus orca*). NOAA Fisheries, Office of Protected Resources. Available at: <http://www.nmfs.noaa.gov/pr/species/mammals/whales/killer-whale.html> Accessed on 28 July 2016.

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 Thresholds for Onset of Permanent and Temporary Threshold Shifts. U.S. Department of Commerce, NOAA. NOAA Technical Memorandum NMFS-OPR-59, 168 p.

NMFS. 2019. Reviewing and designating stocks and issuing Stock Assessment Reports under the Marine Mammal Protection Act. Protected Resources Policy 02-204-03. Available online: <https://media.fisheries.noaa.gov/dam-migration/02-204-03.pdf>. Accessed May 2023

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. 2022a. Acoustic Guidance for Assessment of Down-the-Hole (DTH) Systems. Available from: [https://media.fisheries.noaa.gov/2022-11/PUBLIC%20DTH%20Basic%20Guidance\\_November%202022.pdf](https://media.fisheries.noaa.gov/2022-11/PUBLIC%20DTH%20Basic%20Guidance_November%202022.pdf)

NMFS. 2022b. Evaluation of MMPA Stock Designation for the Mexico Distinct Population Segment of humpback whales (*Megaptera novaeangliae*), currently a part of the California/Oregon/Washington and Central North Pacific (CNP) humpback whale stocks. National Marine Fisheries Service Memorandum for the Record: Management Considerations in Designating Demographically Independent Populations as Stocks under the Marine Mammal Protection Act.

NMFS. 2022c. Evaluation of MMPA Stock Designation for the Hawai'i Distinct Population Segment of humpback whales (*Megaptera novaeangliae*), currently a part of the Central North Pacific humpback whale stock. Memorandum for the Record: Management Considerations in Designating Demographically Independent Populations as Stocks under the Marine Mammal Protection Act.

NMFS. 2023. Guidelines for Preparing Stock Assessment Reports Pursuant to the Marine Mammal Protection Act. Protected Resources Policy Directive 02-204-01. Available online: <https://www.fisheries.noaa.gov/s3/2023-05/02-204-01-Final-GAMMS-IV-Revisions-clean-1-kdr.pdf>. Accessed May 2023.

NOAA (National Oceanic and Atmospheric Administration). 2013. Community Profiles for North Pacific Fisheries – Alaska. NOAA Technical Memorandum NMFS-AFSC-259. Available from: <https://apps-afsc.fisheries.noaa.gov/Publications/AFSC-TM/NOAA-TM-AFSC-259/NOAA-TM-AFSC-259-COMPLETE.pdf>

NOAA. 2021. Alaska Harbor Seal Haul-out Locations. NOAA Fisheries data. Available from: <https://www.fisheries.noaa.gov/inport/item/26760> Accessed on: 25 Feb 2022.

NOAA. 2022. Alaska Survey Counts of Harbor Seals in Coastal Alaska (2003 – 2011). NOAA Fisheries Data. Available from: [https://storage.googleapis.com/nmfs\\_odp\\_afsc/MML/PEP/Aerial%20Survey%20Counts%20of%20Harbor%20Seals%20in%20Coastal%20Alaska%20\(2003-2011\).csv](https://storage.googleapis.com/nmfs_odp_afsc/MML/PEP/Aerial%20Survey%20Counts%20of%20Harbor%20Seals%20in%20Coastal%20Alaska%20(2003-2011).csv) Accessed on: 01 March 2022.

Nowacek, D.P., Johnson, M., Tyack, P., 2004. North Atlantic right whales (*Eubalaena glacialis*) ignore ships but respond to alerting stimuli. *Proc. R. Soc. Lond. B* 271, 227-231.

Nowacek, D.P., Thorne, L.H., Johnston, D.W., Tyack, P.L., 2007. Responses of cetaceans to anthropogenic noise. *Mammal Review* 37, 81-115.

NRC (National Research Council). 2003. Ocean noise and marine mammals. National Academies Press, Washington, DC.

NRC 2005. Marine mammal populations and ocean noise: determining when noise causes biologically significant effects. National Academies Press.

Oestman, R., Buehler, D., Reyff, J., Rodkin, R., 2009. Technical guidance for assessment and mitigation of the hydroacoustic effects of pile driving on fish. Prepared for California Department of Transportation.

Orr, A.J., Banks, A.S., Mellman, S., Huber, H.R., DeLong, R.L., Brown, R.F., 2004. Examination of the foraging habits of Pacific harbor seal (*Phoca vitulina richardsi*) to describe their use of the Umpqua River, Oregon, and their predation on salmonids. *Fishery Bulletin* 102:108-117.

Parks, S.E., Clark, C.W., Tyack, P.L., 2007. Short-and long-term changes in right whale calling behavior: The potential effects of noise on acoustic communication. *The Journal of the Acoustical Society of America* 122, 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.

Payne, P.M., Selzer, L.A., 1989. The distribution, abundance and selected prey of the harbor seal, *Phoca vitulina concolor*, in southern New England. *Marine Mammal Science* 5(2):173-192.

Pearson, W.H., Skalski, J.R., Malme, C.I., 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.

Peña, H., Handegard, N.O., Ona, E., 2013. Feeding herring schools do not react to seismic air gun surveys. *ICES Journal of Marine Science* 70, 1174-1180.

Pitcher, K. W., McAllister, D.C., 1981. Movements and haulout behavior of radio-tagged harbor seals, *Phoca vitulina*. Can. Field-Nat. 95:292-297.

Popper, A.N., Hastings, M., 2009. The effects of anthropogenic sources of sound on fishes. Journal of fish biology 75, 455-489.

Popper, A.N., Hawkins, A.D., Fay, R.R., Mann, D.A., Bartol, S., Carlson, T.J., Coombs, S., Ellison, W.T., Gentry, R.L., Halvorsen, M.B., 2014. Effects of Sound Exposure. ASA S3/SC1. 4 TR-2014 Sound Exposure Guidelines for Fishes and Sea Turtles: A Technical Report prepared by ANSI-Accredited Standards Committee S3/SC1 and registered with ANSI, 17-21.

Purser, J., Radford, A.N., 2011. Acoustic noise induces attention shifts and reduces foraging performance in three-spined sticklebacks (*Gasterosteus aculeatus*). PloS one 6, e17478.

Rehberg, M.J., Andrews, R.D., Swain, U.G., Calkins, D.G., 2009. Foraging behavior of adult female Steller sea lions during the breeding season in Southeast Alaska. Marine Mammal Science 25:588–604.

Reichmuth, C., Holt, M.M., Mulsow, J., Sills, J.M., Southall, B.L., 2013. Comparative assessment of amphibious hearing in pinnipeds. Journal of Comparative Physiology A 199, 491-507.

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.

Reyff, J., 2020. Review of Down-the-Hole Rock Socket Drilling Acoustic Data Measured for White Pass and Yukon Route (WP&YR) Mooring Dolphins. Illingworth & Rodkin, Inc., Cotati, CA. 8 pp.

Reyff, J., 2022. DTH Underwater Acoustics for Small Diameter Piles. Compiled for DOT&PF. Illingworth & Rodkin, Inc., Cotati, CA. 4 pp.

Reyff, J., 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., Širović, A., Trickey, J.S., Debich, A.J., Gottlieb, R.S., Wiggins, S.M., Hildebrand, J.A., Baumann-Pickering, S., 2021. Cetacean occurrence in the Gulf of Alaska from long-term passive acoustic monitoring. Marine Biology 168, 72.

Richardson, W.J., Greene Jr, C.R., Malme, C.I., Thomson, D.H., 1995. Marine Mammals and Noise. Academic press.

Ridgway, S., Carder, D., Smith, R., Kamoinick, T., Schlundt, C., Elsberry, W., 1997. Behavioural Responses and Temporary Shift in Masked Hearing Threshold of Bottlenose Dolphins, *Tursiops Truncatus*, to 1-second Tones of 141 to 201 DB re 1 Micron Pa. Naval Command Control and Ocean Surveillance Center RDT and E Div San Diego CA.

- Ridgway, S., Carder, D., Finneran, J., Keogh, M., Kamolnick, T., Todd, M., Goldblatt, A., 2006. Dolphin continuous auditory vigilance for five days. *Journal of Experimental Biology* 209, 3621-3628.
- Robinson, P.W., Costa, D.P., Crocker, D.E., Gallo-Reynoso, J.P., Champagne, C.D., Fowler, M.A., Goetsch, C., Goetz, K.T., Hassrick, J.L., Hückstädt, L.A., Kuhn, C.E., 2012. Foraging behavior and success of a mesopelagic predator in the northeast Pacific Ocean: insights from a data-rich species, the northern elephant seal. *PloS one*, 7(5), p.e36728.
- Rolland, R.M., Parks, S.E., Hunt, K.E., Castellote, M., Corkeron, P.J., Nowacek, D.P., Wasser, S.K., Kraus, S.D., 2012. Evidence that ship noise increases stress in right whales. *Proceedings of the Royal Society B: Biological Sciences* 279, 2363-2368.
- Romano, T., Keogh, M., Danil, K., 2002a. Investigation of the effects of repeated chase and encirclement on the immune system of spotted dolphins (*Stenella attenuata*) in the Eastern Tropical Pacific, In: Service, N.M.F. (Ed.), National Oceanic and Atmospheric Administration.
- Romano, T.A., Olschowka, J., Felten, S., Quaranta, V., Ridgway, S., Felten, D., 2002b. Immune response, stress, and environment: Implications for cetaceans. *Cell and Molecular Biology of Marine Mammals*; CJ Pfeiffer, ed. Krieger Publishing Co., Inc.
- Romano, T., Keogh, M., Kelly, C., Feng, P., Berk, L., Schlundt, C., Carder, D., Finneran, J., 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.
- Rone, B.K., Zerbini, A.N., Douglas, A.B., Weller, D.W., Clapham, P.J., 2017. Abundance and distribution of cetaceans in the Gulf of Alaska. *Mar. Biol.* 164:23. DOI: [dx.doi.org/10.1007/s00227-016-3052-2](https://doi.org/10.1007/s00227-016-3052-2) .
- Santulli, A., Modica, A., Messina, C., Ceffa, L., Curatolo, A., Rivas, G., Fabi, G., 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, 1105-1114.
- Scheffer, V. B., and J. W. Slipp. 1944. The harbor seal in Washington State. *Am. Midland Nat.* 32:373-416.
- Schlundt, C.E., Finneran, J.J., Carder, D.A., 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, 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., Yan, H.Y., 2001. The effects of underwater noise on auditory sensitivity of fish. *Proceedings of the Institute of Acoustics* 23, 27-36.

Scholik, A.R., Yan, H.Y., 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.

Selye, H., 1950. Stress and the general adaptation syndrome. *British medical journal* 1, 1383.

Sill, L.A., Koster, D., 2017. *The Harvest and Use of Wild Resources in Haines, Hoonah, Angoon, Whale Pass, and Hydaburg, Alaska, 2012*. Juneau, Alaska: Alaska Department of Fish and Game, Division of Subsistence, Technical Paper No. 399

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., Pearson, W.H., 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, 1357-1365.

Small, R.J., Pendleton, G.W., Pitcher, K.W., 2003. Trends in abundance of Alaska harbor seals, 1983-2001. *Mar. Mammal Sci.* 19:344-362.

Small, R. J., Lowry, L.F., Ver Hoef, J.M., Frost, K.J., DeLong, R.A., Rehberg, M.J., 2005. Differential movements by harbor seal pups in contrasting Alaska environments. *Mar. Mammal Sci.* 21:671-694.

Southall, B.L., Bowles, A.E., Ellison, W.T., Finneran, J.J., Gentry, R.L., Greene, C.R., Kastak, D., Ketten, D.R., Miller, J.H., Nachtigall, P.E., Richardson, W.J., Thomas, J.A., Tyack, P.L., 2007. *Marine Mammal Noise Exposure Criteria: Initial Scientific Recommendations*. *Aquatic Mammals* 33, 411-521.

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* 45, 125-232.

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.

Stacey, P.J., R.W. Baird, 1991. Status of the Pacific white-sided dolphin, *Lagenorhynchus obliquidens*, in Canada. *Canadian Field-Naturalist* 105:219-232

Stadler, J.H., Woodbury, D.P., 2009. *Assessing the effects to fishes from pile driving: Application of new hydroacoustic criteria*. *Internoise 2009*.

Stewart, B.S., Huber, H.R., 1993. *Mirounga angustirostris*. *Mammalian Species*, (449), pp.1-10.

Stewart, B.S., Le Boeuf, B.J., Yochem, P.K., Huber, H.R., DeLong, R.L., Jameson, R.J., Sydeman, W., Allen S.G., 1994. *History and present status of the northern elephant seal*

population. In: B. J. LeBoeuf and R. M. Laws (eds.) Elephant Seals. Univ. Calif. Press, Los Angeles.

Stone, G.S., Cavagnaro, L., Hutt, A., Kraus, S., Baldwin, K., Brown, J., 2000. Reactions of Hector's dolphins to acoustic gillnet pingers. Published client report on contract 3071, 29.

Straley, J.M. 1990. Fall and winter occurrence of humpback whales (*Megaptera novaeangliae*) in southeastern Alaska. In P.S. Hammond, S.A. Mizroch, and G.P. Donovan (editors), Report of the International Whaling Commission (Special Issue 12): Individual Recognition of Cetaceans: Use of Photo-Identification and Other Techniques to Estimate Population Parameters, pp. 319–322. International Whaling Commission. NMFS AFSC Processed Report 93-10, U.S. Department of Commerce.

Straley, J.M., Moran, J.R., Boswell, K.M., Vollenweider, J.J., Heintz, R.A., Quinn II, T.J., Witteveen, B.H., Rice, S.D., 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.

Swain, U., Lewis, J., Pendleton, G., Pitcher, K., 1996. Movements, haul-out, and diving behaviour of harbor seals in Southeast Alaska and Kodiak Island, p. 59-144. In Annual Report: harbor seal investigations in Alaska, NOAA Grant NA57FX0367. Division of Wildlife Conservation, Alaska Department of Fish and Game, Douglas, AK.

Teilmann, J., Tougaard, J., Miller, L.A., Kirketerp, T., Hansen, K., Brando, S., 2006. Reactions of captive harbor porpoises (*Phocoena phocoena*) to pinger-like sounds. Marine Mammal Science 22, 240-260.

Thorson, P., Reyff, J., 2006. San Francisco-Oakland Bay bridge east span seismic safety project marine mammals 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.

Tollit, D.J., Greenstreet, S.P.R., Thompson, P.M., 1997. Prey selection by harbor seals (*Phoca vitulina*) in relation to variations in prey abundance. Canadian Journal of Zoology 75:1508–1518.

Tyack, P.L., 2008. Implications for marine mammals of large-scale changes in the marine acoustic environment. Journal of Mammalogy 89, 549-558.

Urick, R.J., 1983. Principles of underwater sound. 3rd ed. McGraw-Hill, New York, NY.

Wade, P.R., 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. 32 pp.

Wade, P. R., E. M. Oleson, N. C. Young. 2021. Evaluation of Hawai'i distinct population segment of humpback whales as units under the Marine Mammal Protection Act. U.S. Dep. Commer., NOAA Tech. Memo. NMFS AFSC-430, 31 p

- Ward, W., 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. The Journal of the Acoustical Society of America 32, 497-500.
- Ward, W.D., Glorig, A., Sklar, D., 1958. Dependence of temporary threshold shift at 4 kc on intensity and time. The Journal of the Acoustical Society of America 30, 944-954.
- Ward, W.D., Glorig, A., Sklar, D.L., 1959. Temporary threshold shift from octave-band noise: applications to damage-risk criteria. The Journal of the Acoustical Society of America 31, 522-528.
- Wardle, C., Carter, T., Urquhart, G., Johnstone, A., Ziolkowski, A., Hampson, G., Mackie, D., 2001. Effects of seismic air guns on marine fish. Continental shelf research 21, 1005-1027.
- Wartzok, D., Ketten, D.R., 1999. Marine mammal sensory systems. Biology of marine mammals 1, 117-175.
- Wartzok, D., Poppper, A., Gordon, J., Merrill, J., 2004. Factors affecting the responses of marine mammals to acoustic disturbance. Marine Technology Society Journal 37.
- Weilgart, L.S., 2007. The impacts of anthropogenic ocean noise on cetaceans and implications for management. Canadian journal of zoology 85, 1091-1116.
- Wild, L.A., Riley, H.E., Pearson, H.C., Gabriele, C.M., Neilson, J.L., Szabo, A., Moran, J., Straley, J.M., DeLand, S., 2023. Biologically Important Areas II for cetaceans within US and adjacent waters–Gulf of Alaska Region. Frontiers in Marine Science, 10, p.763.
- Witteveen, B.H., Worthy, G.A.J., Foy, R.J., Wynne, K.M., 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.
- Womble, J.N., 2012. Foraging ecology, diving behavior, and migration patterns of harbor seals (*Phoca vitulina richardii*) from a glacial fjord in Alaska in relation to prey availability and oceanographic features. Ph.D. Dissertation, Oregon State University.
- Womble, J.N., Gende, S.M., 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
- Wynne, K.W., 2012. Guide to Marine Mammals of Alaska. Alaska Sea Grant College Program, Fairbanks, Alaska, 3rd edition, 2007.
- Wynne, K.W., Foy, R., Buck, L., 2011. Gulf Apex Predator-prey Study (GAP): FY2004-06 Standardized Comprehensive Report NOAA Federal Program. Available at: [http://seagrant.uaf.edu/map/gap/reports/GAP-04-06\\_Final.pdf](http://seagrant.uaf.edu/map/gap/reports/GAP-04-06_Final.pdf)

Yazvenko, S., McDonald, T., Blokhin, S., Johnson, S., Melton, H., Newcomer, M., Nielson, R., Wainwright, P., 2007. Feeding of western gray whales during a seismic survey near Sakhalin Island, Russia. *Environmental Monitoring and Assessment* 134, 93-106.

Young, N. C., Brower, A. A., Muto, M. M., Freed, J. C., Angliss, R. P., Friday, N. A., Boveng, P. L., Brost, B. M., Cameron, M. F., Crance, J. L., Dahle, S. P., Fadely, B. S., Ferguson, M. C., Goetz, K. T., London, Oleson, E. M., J. M., Ream, R. R., Richmond, E. L., Sheldon, K. E. W., Sweeney, K. L., Towell, R. G., Wade, P. R., Waite, J. M., and Zerbini, A. N. 2023. Alaska marine mammal stock assessments, 2022. U.S. Department of Commerce, NOAA Technical Memorandum NMFS-AFSC-474, 316 p

Zelick, R., Mann, D.A., Popper, A.N., 1999. Acoustic communication in fishes and frogs, *Comparative hearing: Fish and amphibians*, Springer-Verlag, New York, NY, pp. 363-411.

Zerbini, A.N., Waite, J.M., Laake, J.L., Wade, P.R., 2006. Abundance, trends, and distribution of baleen whales off Western Alaska and the Central Aleutian Islands. *Deep-Sea Research* 53:1772-1790.