

Hilcorp Liberty References

- ANSI (American National Standards Institute). 1986. Methods of Measurement for Impulse Noise 3 (ANSI S12.7-1986). Acoustical Society of America, Woodbury, NY.
- ANSI. 1995. Bioacoustical Terminology (ANSI S3.20-1995). Acoustical Society of America, Woodbury, NY.
- Allen BM, Angliss RP. 2011. Draft Alaska Marine Mammal Stock Assessments, 2010. U.S. Department of Commerce, NOAA Technical Memorandum NMFS-AFSC. 247p.
- Allen BM, Angliss, RP. 2015. Alaska marine mammal stock assessments, 2014. U. S. Department Commerce, NOAA Technical Memorandum NMFS-AFSC-301. 304 p. doi:10.7289/V5NSORTS.
- Au, W.W.L. and M.C. Hastings. 2008. Principles of Marine Bioacoustics. Springer, New York.
- Barkaszi, M.J., M. Butler, R. Compton, A. Unietis, and B. Bennet. 2012. Seismic survey mitigation measures and marine mammal observer reports. OCS Study BOEM 2012-015, Bureau of Ocean Energy Management: 51.
- 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, N. Gales, J. Mann, R. Connor, et al. 2006. Decline in relative abundance of bottlenose dolphins exposed to long-term disturbance. Conservation Biology **20** (6):1791-1798.
- Bejder, L., A. Samuels, H. Whitehead, H. Finn, and S. Allen. 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.
- Bengtson, J. L., L. M. Hiruki-Raring, M. A. Simpkins, and P. L. Boveng. 2005. Ringed and bearded seal densities in the eastern Chukchi Sea, 1999–2000. Polar Biology **28**:833-845.
- Burns, J. J., and K. J. Frost. 1979. The natural history and ecology of the bearded seal, *Erignathus barbatus*.77.
- 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. Journal of the Acoustical Society of America **115** (5):2346-2357.
- BOEM. 2018. Final Environmental Statement on the Liberty Development and Production Plan, Beaufort Sea, Alaska. U.S. Department of Interior. Bureau of Ocean Energy Management. Alaska OCS Regiona. OCS EIS/EA BOEM 2018-050. August 2018.
- Bowles, A.E., M. Smultea, B. Wursig, D.P. DeMaster, and D. Palka. 1994. Relative abundance and behavior of marine mammals exposed to transmissions from the Heard Island feasibility test. Journal of the Acoustical Society of America **96** (4):2469-2484.

- Boveng PL, Bengtson JL, Buckley TW, Cameron MF, Dahle SP, Kelly BP, Megrey BA, Overland JE, Williamson NJ. 2009. Status review of the spotted seal (*Phoca largha*). U.S. Dep. Commer., NOAA Tech. Memo. NMFS-AFSC-200, 153 p.
- 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.
- Burns, J. J., and S. J. Harbo. 1972. An aerial census of ringed seals, northern coast of Alaska. *Arctic* **25**:279-290.
- Burns, J. J., B. P. Kelly, L. D. Aumiller, K. J. Frost, and S. Hills. 1982. Studies of Ringed Seals in the Alaskan Beaufort Sea during Winter: Impacts of Seismic Exploration Fairbanks, AK. Unpubl. ann. rep., OCSEAP Res. Unit 232, to U.S. Dep. Commer., NOAA, Off. Mar. Pollut. Assess., Juneau, Alaska, 57 pp.
- Cameron, M. F., J. L. Bengtson, P. L. Boveng, J. K. Jansen, B. P. Kelly, S. P. Dahle, E. A. Logerwell, J. E. Overland, C. L. Sabine, G. T. Waring, and J. M. Wilder. 2010. Status review of the bearded seal (*Erignathus barbatus*) in U.S. Department of Commerce, editor., Seattle, WA.
- 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.
- Citta JJ, Quakenbush LT, Frost KJ, Lowry LF, Hobbs RC, Aderman H. Movements of beluga whales (*Delphinapterus leucas*) in Bristol Bay, Alaska. *Mar Mamm Sci.* 2016; 32: 1271–1298.
- Clark, C., W. T. Ellison, B. Southall, L. Hatch, S. M. V. Parijs, A. S. Frankel, D. Ponirakis, and G. C. Gagnon. 2009a. Acoustic masking of baleen whale communications: Potential impacts from anthropogenic sources. Page 56 Eighteenth Biennial Conference on the Biology of Marine Mammals, Quebec City, Canada.
- Clark, C. W., W. T. Ellison, B. L. Southall, L. Hatch, S. M. Van Parijs, A. Frankel, and D. Ponirakis. 2009b. Acoustic masking in marine ecosystems: intuitions, analysis, and implication. *Marine Ecology Progress Series* **395**:201-222.
- Clark, C. W., and J. H. Johnson. 1984. The sounds of the bowhead whale, *Balaena mysticetus*, during the spring migrations of 1979 and 1980. *Canadian Journal of Zoology-Revue Canadienne De Zoologie* **62**:1436-1441.
- Clarke, J. T., A. A. Brower, C. Christman, and M. C. Ferguson. 2014. Distribution and relative abundance of marine mammals in the Northeastern Chukchi and Western Beaufort Seas, 2013. *in* A. F. S. C. National Marine Mammal Laboratory, NMFS, NOAA, editor., Seattle, WA.
- Clarke, J. T., A. A. Brower, M. C. Ferguson, A. S. Kennedy, and A. L. Willoughby. 2015. Clarke, J. T., A. A. Brower, M. C. Ferguson, and A. L. Willoughby. 2017. Distribution and relative abundance of marine mammals in the Eastern Chukchi and Western Beaufort Seas,

2016 Annual Report, OCS Study BOEM 2017-078. *in* A. F. S. C. Marine Mammal Laboratory, NMFS NOAA. , editor., Seattle, WA. .

- Clarke, J. T., C. L. Christman, A. A. Brower, and M. C. Ferguson. 2012. Distribution and relative abundance of marine mammals in the Alaskan Chukchi and Beaufort Seas, 2011. Bureau of Ocean Energy Management, Regulation, and Enforcement (BOEMRE), Alaska OCS Region, Anchorage, AK.
- Clarke, J. T., C. L. Christman, A. A. Brower, and M. C. Ferguson. 2013a. Distribution and relative abundance of marine mammals in the northeastern Chukchi and western Beaufort seas, 2012.
- Clarke, J. T., C. L. Christman, A. A. Brower, M. C. Ferguson, and S. L. Grassia. 2011. Aerial surveys of endangered whales in the Beaufort Sea, Fall 2006-2008. Final Report, OCS Study BOEMRE 2010-042. National Marine Mammal Laboratory, Alaska Fisheries Science Center, NMFS, NOAA, 7600 Sand Point Way NE, F/AKC3, Seattle, WA 98115-6349.
- Connor, R.C. and M.R. Heithaus. 1996. Approach by great white shark elicits flight response in bottlenose dolphins. *Marine Mammal Science* **12** (4):602-606.
- Croll, D.A., C.W. Clark, J. Calambokidis, W.T. Ellison, and B.R. Tershy. 2001. Effect of anthropogenic low-frequency noise on the foraging ecology of *Balaenoptera* whales. *Animal Conservation* **4** (1):13-27.
- Daan, S., C. Deerenberg, and C. Dijkstra. 1996. Increased daily work precipitates natural death in the kestrel. *Journal of Animal Ecology* **65** (5):6.
- Ellison, W.T., B.L. Southall, C.W. Clark, and A.S. Frankel. 2012. A new context-based approach to assess marine mammal behavioral responses to anthropogenic sounds. *Conservation Biology* **26** (1):21-28.
- 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.
- Erbe, C., C. Reichmuth, K. Cunningham, K. Lucke, and R. Dooling. 2016. Communication masking in marine mammals: A review and research strategy. *Marine Pollution Bulletin* **103** (1-2):15-38.
- 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., A.N. Popper, and J.F. Webb. 2008. Introduction to fish bioacoustics. *In*: Webb, J.F., R.R. Fay, and A.N. Popper, eds. *Fish Bioacoustics*. Springer Handbook of Auditory Research **32**:1-15.
- Fay, R.R. 2009. Soundscapes and the sense of hearing of fishes. *Integrative Zoology* **4**: 26-32
- Fedoseev, G. A. 1984. Population structure, current status, and perspective for utilization of the ice-inhabiting forms of pinnipeds in the northern part of the Pacific Ocean. Pages 130-146 *in* A. V. Yablokov, editor. *Marine mammals*. Nauka, Moscow.

- Finneran, J.J., R. Dear, D.A. Carder, and S.H. Ridgway. 2003. 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.
- 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** (3):1702-1726.
- Ford, J.K.B. and R.R. Reeves. 2008. Fight or flight: Antipredator strategies of baleen whales. *Mammal Review* **38** (1):50-86.
- Foote, A.D., R.W. Osborne, and A.R. Hoelzel. 2004. Whale-call response to masking boat noise. *Nature* 428:910.
- Frankel, A.S. and C.W. Clark. 2000. Behavioral responses of humpback whales (*Megaptera novaeangliae*) to full-scale ATOC signals. *Journal of the Acoustical Society of America* **108** (4):1930-1937.
- 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.
- 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.
- Frouin-Mouy, H., D. Zeddies, and M. Austin. 2016. Passive Acoustic Monitoring Study: Hilcorp's 2015 Geohazard Survey in Foggy Island Bay, AK.
- Funk, D., D. Hannay, D. Ireland, R. Rodrigues, and W. R. Koski. 2008. Marine mammal monitoring during open water seismic exploration by Shell Offshore, Inc. in the Chukchi and Beaufort Seas, July-November 2007: 90 day report. Prep. By LGL Alaska Research Assoc., Inc., Anchorage, AK; LGL Limited environmental research associates, King City, Ont. Canada; and Greenridge Sciences and JASCO Applied Sciences for Shell Offshore, Inc., NMFS and USFWS., LGL Alaska Research Assoc., Inc., Anchorage, AK.
- Funk, D. W., D. S. Ireland, R. Rodrigues, and W. R. Koski. 2010. Joint monitoring program in the Chukchi and Beaufort Seas, open water seasons, 2006-2008: Draft Final Report.
- Gailey, G., B. Wursig, 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** (1-3):75-91.
- Gailey, G., O. Sychenko, T. McDonald, R. Racca, A. Rutenko, and K. Broker. 2016. Behavioural responses of western gray whales to a 4-D seismic survey off northeastern Sakhalin Island, Russia. *Endangered Species Research* **30**: 53-71.
- Greene, C.R., and W.J. Richardson. 1988. Characteristics of marine seismic survey sounds in the Beaufort Sea. *Journal of the Acoustical Society of America* **83** (6):2246-2254.

- Green, G. A., and S. Negri. 2005. Marine mammal monitoring program, FEX barging project, 2005. ASRC Lynx Enterprises Inc., Bothell, Washington
- Green, G. A., and S. Negri. 2006. Marine Mammal Monitoring Program, FEX Barging Project, 2006. ASRC lynx Enterprises Inc., Bothell, WA.
- Goldbogen, J.A., J. Calambokidis, A.S. Friedlaender, J. Francis, S.L. Deruiter, A.K. Stimpert, et al. 2013a. Underwater acrobatics by the world's largest predator: 360° rolling manoeuvres by lunge-feeding blue whales. *Biology Letters* 9 (1):Article 20120986.
- Goldbogen, J.A., A.S. Friedlaender, J. Calambokidis, M.F. McKenna, M. Simon, and D.P. Nowacek. 2013b. Integrative approaches to the study of baleen whale diving behavior, feeding performance, and foraging ecology. *BioScience* 63 (2):90-100.
- 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.
- 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., 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).
- Harrington, F.H. and A.M. Veitch. 1992. Calving success of woodland caribou exposed to low-level jet fighter overflights. *Arctic* 45 (3):213-218.
- Hildebrand, J.A. 2009. Anthropogenic and natural sources of ambient noise in the ocean. *Marine Ecology Progress Series* 395:5-20.
- Heptner, L. V. G., K. K. Chapskii, V. A. Arsenev, and V. T. Sokolov. 1976. Bearded seal. *Erignathus barbatus* (Erxleben, 1777). Pages 166-217 in L. V. G. Heptner, N. P. Naumov, and J. Mead, editors.
- Hobbs, R.C., Y.V. Ivashchenko, A.S. Kennedy, J.M. London, S.A. Mizrock, R.R. Ream, E.L. Richmond, K.E.W. Sheldon, R.G. Towell, P.R. Wade, J.M. Waite and A.N. Zerbini. 2018b. Alaska Marine Mammal Stock Assessments, 2017. NOAA Technical Memorandum NMFS-AFSC-323, National Marine Mammal Laboratory, AFSC, NMFS, 7600 Sand Point Way NE, Seattle, Washington 98115. June 2016. 309 p.
- 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.

- Ice Seal Committee. 2016. The subsistence harvest of ice seals in Alaska – a compilation of existing information, 1960-2014.
- Ice Seal Committee. 2017. The subsistence harvest of ice seals in Alaska – a compilation of existing information, 1960-2015.
- 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.
- 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., Mulsow, J., Ghaul, A., and Reichmuth, C. (2008). “Noise-induced permanent threshold shift in a harbor seal,” *J. Acoust. Soc. Am.* 123, 2986(A).
- 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** (3):451-464.
- Kryter, K.D. 1985. *The Effects of Noise on Man*. Academic Press, New York.
- Lusseau, D. and L. Bejder. 2007. The long-term consequences of short-term responses to disturbance experiences from whalewatching impact assessment. *International Journal of Comparative Psychology* 201 (2-3):228-236.
- Mammals of the Soviet Union. Volume II, Part 3--Pinnipeds and Toothed Whales, Pinnipedia and Odontoceti. Vysshaya Shkola Publishers, Moscow, Russia.
- MacIntyre, K. Q., K. M. Stafford, C. L. Berchok, and P. L. Boveng. 2013. Year-round acoustic detection of bearded seals (*Erignathus barbatus*) in the Beaufort Sea relative to changing environmental conditions, 2008–2010. *Polar Biology* **36**.
- MacIntyre, K. Q., K. M. Stafford, P. B. Conn, K. L. Laidre, and P. L. Boveng. 2015. The relationship between sea ice concentration and the spatio-temporal distribution of vocalizing bearded seals (*Erignathus barbatus*) in the Bering, Chukchi, and Beaufort Seas from 2008 to 2011. . *Progress in Oceanography* **136**:241-249.
- Madsen, P.T., M. Johnson, P.J.O. Miller, N.A. Soto, J. Lynch, and P. Tyack. 2006. Quantitative measures of air-gun pulses recorded on sperm whales (*Physeter macrocephalus*) using acoustic tags during controlled exposure experiments. *Journal of the Acoustical Society of America* **120** (4):2366-2379.
- Manning, T. H. 1974. Variation in the skull of the bearded seal, *Erignathus barbatus* (Erxleben). *Biological Papers of the University of Alaska* **16**:1-21.

- Marquette, W. M., and J. R. Bockstoce. 1980. Historical Shore-Based Catch of Bowhead Whales in the Bering, Chukchi, and Beaufort Seas. *Marine Fisheries Review*:96.
- Mcdonald, T.L., W.J. Richardson, C.R. Greene, Jr., and B. Streever. 2012. Detecting changes in the distribution of calling bowhead whales exposed to fluctuating anthropogenic sounds. *J. Cet. Res. Mgmt.* 12: 91-106.
- Miller, J.D. 1974. Effects of noise on people. *Journal of the Acoustical Society of America* **56** (3):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.
- Moore SE, DeMaster DP. 1997. Cetacean habits in the Alaskan Arctic. *J. Northw. Atl. Fish. Sci.* 22:55-69.
- Morton, A.B. and H.K. Symonds. 2002. Displacement of *Orcinus orca* (L.) by high amplitude sound in British Columbia, Canada. *ICES Journal of Marine Science* **59** (1):71-80.
- Muto, M.M., V.T. Herker, R.P. Angliss, B.A. Allen, P.L. Boveng, J.M. Breiwick, M.F. Cameron, P.J. Clapham, S.P. Dahle, M.E. Dahlheim, B.S. Fadely, M.C. Ferguson, L.W. Fritz, R.C Hobbs, Y.V. Ivashchenko, A.S. Kennedy, J.M. London, S.A. Mizrock, R.R. Ream, E.L. Richmond, K.E.W. Sheldon, R.G. Towell, P.R. Wade, J.M. Waite and A.N. Zerbini. 2018a. Draft Alaska Marine Mammal Stock Assessments, 2018. National Marine Mammal Laboratory, AFSC, NMFS, 7600 Sand Point Way NE, Seattle, Washington 98115. September 2018. 174 p.
- Muto, M.M., V.T. Herker, R.P. Angliss, B.A. Allen, P.L. Boveng, J.M. Breiwick, M.F. Cameron, P.J. Clapham, S.P. Dahle, M.E. Dahlheim, B.S. Fadely, M.C. Ferguson, L.W. Fritz,
- NRC (National Research Council). 2003. Ocean noise and marine mammals. National Academy of Sciences: 220.
- Ng, S.L. and S. Leung. 2003. Behavioral response of Indo-Pacific humpback dolphin (*Sousa chinensis*) to vessel traffic. *Marine Environmental Research* **56** (5):555-567.
- NIOSH (National Institute for Occupational Safety and Health). 1998. Criteria for a Recommended Standard: Occupational Noise Exposure. United States Department of Health and Human Services, Cincinnati, OH.
- National Marine Fisheries Service (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. Dept. of Commer., NOAA. NOAA Technical Memorandum NMFS-OPR-59, 167 p.
- NOAA. 2016. Final Environmental Impact Statement on the Effects of Oil and Gas Activities in the Arctic Ocean. U.S. Department of Commerce, NOAA, National Marine Fisheries Service. October 2016. 2095 pp.
- 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.

- O'Corry-Crowe, G., R. Suydam, L. Quakenbush, B. Potgieter, L. Harwood, D. Litowka, T. Ferrer, et al. 2018. Migratory culture, population structure and stock identity in North Pacific beluga whales (*Delphinapterus leucas*). PLOS ONE 13(3): e0194201
- Ognev, S. I. 1935. Mammals of U.S.S.R. and adjacent countries. Volume 3. Carnivora. Glavpushnina NKVT, Moscow, Russia.
- 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. Journal of the Acoustical Society of America **122** (6):3725-3731.
- 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.
- 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.
- Philo, L. M., E. Shotts, and J. C. George. 1993. Morbidity and mortality. The bowhead whale. Soc. Mar. Mammal., Spec. Publ:275-312.
- 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.
- 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.
- Quakenbush L. 1988. Spotted seal: *Phoca largha*. In: Lentfer JW, editor. Selected Marine Mammals of Alaska: Species Accounts with Research and Management Recommendations. Marine Mammal Commission, Washington, DC. p. 107-124.
- Quakenbush L, Small RJ, Citta JJ. 2010. Satellite tracking of Western Arctic bowhead whales. Final report. OCS Study BOEM 2010-033. Alaska Department of Fish and Game, Juneau, AK. 118 pp.
- Quakenbush, L. 2018. Unpub data. Pers, comm to B. Easley-Appleyard.
- Reichmuth, C., A. Ghaul, J.M. Sills, 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** (4):2646.
- Reiser, C. M., D. W. Funk, R. Rodrigues, and D. Hannay. 2011. Marine mammal monitoring and mitigation during marine geophysical surveys by Shell Offshore, Inc. in the Alaskan Chukchi and Beaufort seas, July–October 2010: 90-day report. Rep. from LGL Alaska Research Associates Inc., Anchorage, AK, and JASCO Applied Sciences, Victoria, BC for Shell Offshore Inc, Houston, TX, Nat. Mar. Fish. Serv., Silver Spring, MD, and U.S. Fish and Wild. Serv., Anchorage, AK.
- Ridgway, S.H., D.A. Carder, R.R. Smith, T. Kamolnick, C.E. Schlundt, and W.R. Elsberry. 1997. Behavioral responses and temporary shift in masked hearing threshold of bottlenose dolphins, *Tursiops truncatus*, to 1-second tones of 141 to 201 dB re 1 μ Pa. Technical Report 1751, Naval Command, Control and Ocean Surveillance Center: 32.

- Ridgway, S., D. Carder, J. Finneran, M. Keogh, T. Kamolnick, M. Todd, and A. Goldblatt. 2006. Dolphin continuous auditory vigilance for five days. *Journal of Experimental Biology* **209** (18):3621-3628.
- Rice DW, Wolman AA, Braham HW. 1984. The gray whale, *Eschrichtius robustus*. *Mar Fish Rev* 46(4):7-14.
- Richard PR, Martin AR, Orr JR. 2001. Summer and autumn movements of belugas of the eastern Beaufort Sea stock. *Arctic* 54(3):223-236.
- Richardson WJ, Greene CR Jr, Malme CI, Thomson DH. 1995. *Marine Mammals and Noise*. Academic Press. San Diego, CA. 576 pp.
- Richardson WJ, Greene CR Jr, Koski WR, Malme CI, Miller GW, Smultea MA. 1990. Acoustic effects of oil production activities on bowhead and white whales visible during spring migration near Pt. Barrow, Alaska—1989 phase (OCS Study MMS 90- 0017; NTIS PB91-105486). LGL Ltd. report for U.S. Minerals Management Service, Herndon, VA. 284 pp.
- Richardson, W. J., and M. T. Williams. 2003. Monitoring of industrial sounds, seals, and bowhead whales near BP's Northstar Oil Development, Alaskan Beaufort Sea, 1999–2002. Anchorage, Alaska.
- Richardson, W. J., and M. T. Williams. 2004. Monitoring of industrial sounds, seals, and bowhead whales near BP's Northstar oil development, Alaskan Beaufort Sea, 1999-2003. Annual and comprehensive report, Dec 2004. BP Exploration (Alaska) Inc., Anchorage, Alaska.
- 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.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.
- Rugh D, Hobbs RC, Lerczak JA, Breiwick JM. 2005. Estimates of abundance of the eastern North Pacific stock of gray whales 1997-2002. *J. Cetacean Res. Manage.* 7(1):1-12.
- Rugh D, Muto MM, Moore SE, DeMaster DP. 1999. Status review of the Eastern North Pacific stock of gray whales. U.S. Department of Commerce, NOAA Technical Memorandum NMFS-AFSC-103.
- Scheffer, V. B. 1958. *Seals, sea lions and walruses: a review of the Pinnipedia*. Stanford University Press, Palo Alto, CA.
- Shaughnessy PD, Fay FH. 1977. A review of the taxonomy and nomenclature of North Pacific harbour seals. *Journal of Zoology (London)* 182: 385-419.

- Simpkins, M. A., L. M. Hiruki-Raring, G. Sheffield, J. M. Grebmeier, and J. L. Bengtson. 2003. Habitat selection by ice-associated pinnipeds near St. Lawrence Island, Alaska in March 2001. *Polar Biology* **26**:577-586.
- Smultea, M. A., K. Lomac-MacNair, P. Haase, and C. E. Bacon. 2014. 90-Day Report for Marine Mammal Monitoring and Mitigation during BPXA Liberty Shallow Geohazard Seismic and Seabed Mapping Survey, Beaufort Sea, Alaska, July-August 2014. Prepared by Smultea Environmental Sciences, P.O. Box 256, Preston, WA 98050. November 25, 2014.
- Suydam, R., J. C. George, B. Person, C. Hanns, and G. Sheffield. 2011. Subsistence harvest of bowhead whales (*Balaena mysticetus*) by Alaskan Eskimos during 2010. International Whaling Commission-Scientific Committee, Tromso, Norway.
- Southall BL, Bowles AE, Ellison WT, Finneran JJ, Gentry RL, Greene CR Jr, Kastak D, Ketten DR, Miller JH, Nachtigall PE, Richardson JW, Thomas JA, Tyack PL. 2007. Marine mammal noise exposure criteria: Initial scientific recommendations. *Aquatic Mammals* **33**(4):411-521.
- SLR. 2017. Hilcorp Liberty Project Underwater and Airborne Noise Modeling. Prepared by SLR Consulting (Canada) Ltd. 200-1620 West 8th Ave. Vancouver, BC, for Hilcorp Alaska LLC, 3800 Centerpoint Drive, Suite1400, Anchorage, AK. 40 p.
- 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.
- Skalski, J.R., W.H. Pearson, and C.I. Malme. 1992. Effects of sounds from a geophysical survey device on catch-per-unit-effort in a hook-and-line fishery for rockfish (*Sebastes* spp.). *Canadian Journal of Fisheries and Aquatic Sciences* **49**:1357-1365.
- 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.
- 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. Pages 117-175 in J.E. Reynolds and S.A. Rommel, eds. *Biology of Marine Mammals*. Smithsonian Institution Press, Washington.
- 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.
- 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.
- Yelverton, J.T., D.R. Richmond, E.R. Fletcher, and R.K. Jones. 1973. Safe distances from underwater explosions for mammals and birds. Defense Nuclear Agency: 67.

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.