

References

- Allen, B.M. and R.P. Angliss. 2015. Alaska marine mammal stock assessments, 2014. NOAA Technical Memorandum NMFS-AFSC-301, National Marine Fisheries Service: 313.
- Andersen, M.S., K.A. Forney, T.V.N. Cole, T. Eagle, R. Angliss, K. Long, et al. 2008. Differentiating serious and non-serious injury of marine mammals: Report of the Serious Injury Technical Workshop, 10-13 September 2007, Seattle, Washington. NOAA Technical Memorandum NMFS-OPR-39, National Marine Fisheries Service: 94.
- 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.
- ANSI. 2005. Measurement of Sound Pressure Levels in Air (ANSI S1.13-2005). Acoustical Society of America, Woodbury, NY.
- Archer, F.I., S.L. Mesnick, and A.C. Allen. 2010. Variation and predictors of vessel response behavior in a tropical dolphin community. NOAA Technical Memorandum NMFS-SWFSC-457, National Marine Fisheries Service: 60.
- Au, W.W.L., P.W.B. Moore, and D.A. Pawloski. 1988. Detection of complex echoes in noise by an echolocating dolphin. *Journal of the Acoustical Society of America* **83** (2):662-668.
- Au, W.W.L., A.A. Pack, M.O. Lammers, L.M. Herman, M.H. Deakos, and K. Andrews. 2006. Acoustic properties of humpback whale songs. *Journal of the Acoustical Society of America* **120** (2):1103-1110.
- Au, W.W.L. and M.C. Hastings. 2008. *Principles of Marine Bioacoustics*. Springer, New York.
- Babushina, E.S., G.L. Zaslavskii, and L.I. Yurkevich. 1991. Air and underwater hearing of the northern fur seal: Audiograms and auditory frequency discrimination. *Biofizika* **36** (5):904-907.
- Baraff, L.S. and T.R. Loughlin. 2000. Trends and potential interactions between pinnipeds and fisheries of New England and the U.S. west coast. *Marine Fisheries Review* **62** (4):1-39.
- Barber, J.R., K.R. Crooks, and K.M. Fristrup. 2010. The costs of chronic noise exposure for terrestrial organisms. *Trends in Ecology and Evolution* **25** (3):180-189.
- Barlow, J., R.W. Baird, J.E. Heyning, K. Wynne, A.M. Manville, L.F. Lowry, et al. 1994. A review of cetacean and pinniped mortality in coastal fisheries along the west coast of the USA and Canada and the east coast of the Russian Federation. Report of the International Whaling Commission Special Issue **15**:405-426.

- Barlow, J. and G.A. Cameron. 2003. Field experiments show that acoustic pingers reduce marine mammal bycatch in the California drift gill net fishery. *Marine Mammal Science* **19** (2):265-283.
- Barlow, J. and K.A. Forney. 2007. Abundance and population density of cetaceans in the California Current ecosystem. *Fishery Bulletin* **105** (4):509-526.
- Bearzi, G. and G. Notarbartolo di Sciara. 1997. Bottlenose dolphins following bottom trawlers in the Kvarneric (northern Adriatic Sea). Paper presented at the Eleventh Annual Conference of the European Cetacean Society, Stralsund, Germany. Pages 202-204 in P.G.H. Evans, E.C.M. Parsons, and S.L. Clark, eds. *Proceedings of the Eleventh Annual Conference of the European Cetacean Society*.
- 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.
- Beddington, J.R., R.J.H. Beverton, and D.M. Lavigne (eds.). 1985. *Marine Mammals and Fisheries*. George Allen & Unwin, London.
- 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.
- Best, P.B. 1982. Whales: Why do they strand? *African Wildlife* **36** (3):96-99.
- Beverton, R.J.H. 1985. Analysis of marine mammal-fisheries interaction. Pages 3-33 in J.R. Beddington, R.J.H. Beverton, and D.M. Lavigne, eds. *Marine Mammals and Fisheries*. George Allen & Unwin, London.
- 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.
- Blecha, F. 2000. Immune system response to stress. Pages 111-122 in G.P. Moberg and J.A. Mench, eds. *The Biology of Animal Stress: Basic Principles and Implications for Animal Welfare*. CABI Publishing, Oxon, United Kingdom.
- Boebel, O., P. Clarkson, R. Coates, R. Larter, P.E. O'Brien, J. Ploetz, et al. 2005. Risks posed to the Antarctic marine environment by acoustic instruments: A structured analysis. *Antarctic Science* **17** (04):533-540.

- Boebel, O., H. Bornemann, E. Burkhardt, and C. Ruholl. 2006. Risk assessment of Atlas Hydrographic Hydrosweep DS-2 deep sea multi-beam and Parasound DS-2 sediment echosounders. Paper presented at the 20th Annual Conference of the European Cetacean Society, Gdynia, Poland.
- Bograd, S.J., W.J. Sydeman, J. Barlow, A. Booth, R.D. Brodeur, J. Calambokidis, et al. 2010. Status and trends of the California Current region, 2003-2008. Pages 106-141 in S.M. McKinnell and M.J. Dagg, eds. Marine ecosystems of the North Pacific Ocean, 2003-2008. PICES Special Publication 4: 393.
- 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.
- Bradshaw, C.J.A., 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.
- Brownell, R.L., K. Ralls, S. Baumann-Pickering, and M.M. Poole. 2009. Behavior of melon-headed whales, *Peponocephala electra*, near oceanic islands. *Marine Mammal Science* **25** (3):639-658.
- Burdin, A.M., A.L. Bradford, G.A. Tsidulko, and M. Sidorenko. 2011. Status of western gray whales off northeastern Sakhalin Island and eastern Kamchatka, Russia in 2010. Scientific Committee Report SC/63/BRG8, International Whaling Commission: 10.
- Burkhardt, E., O. Boebel, H. Bornemann, and C. Ruholl. 2007. Risk assessment of scientific sonars. Paper presented at the International Conference on the Effects of Noise on Aquatic Life, Nyborg, Denmark.
- Burns, J.M., D.P. Costa, K. Frost, and J.T. Harvey. 2005. Development of body oxygen stores in harbor seals: Effects of age, mass, and body composition. *Physiological and Biochemical Zoology* **78** (6):1057-1068.
- Byrd, B.L., A.A. Hohn, G.N. Lovewell, K.M. Altman, S.G. Barco, A. Friedlaender, et al. 2014. Strandings as indicators of marine mammal biodiversity and human interactions off the coast of North Carolina. *Fishery Bulletin* **112** (1):1-23.

- Calambokidis, J., G.H. Steiger, J.R. Evenson, and S.J. Jeffries. 1991. Censuses and disturbance of harbor seals at Woodard Bay and recommendations for protection. Washington Department of Natural Resources: 51.
- Carlström, J., P. Berggren, and N.J.C. Tregenza. 2009. Spatial and temporal impact of pingers on porpoises. *Canadian Journal of Fisheries and Aquatic Sciences* **66** (1):72-82.
- Carretta, J.V., J. Barlow, and L. Enriquez. 2008. Acoustic pingers eliminate beaked whale bycatch in a gill net fishery. *Marine Mammal Science* **24** (4):956-961.
- Carretta, J.V. and J. Barlow. 2011. Long-term effectiveness, failure rates, and “dinner bell” properties of acoustic pingers in a gillnet fishery. *Marine Technology Society Journal* **45** (5):7-19.
- Carretta, J.V., E. Oleson, D.W. Weller, A.R. Lang, K.A. Forney, J. Baker, et al. 2015a. U.S. Pacific marine mammal stock assessments: 2014. NOAA Technical Memorandum NMFS-SWFSC-549, National Marine Fisheries Service: 420.
- Carretta, J.V., E. Oleson, J. Baker, D.W. Weller, A.R. Lang, K.A. Forney, et al. 2015b. U.S. Pacific draft marine mammal stock assessments: 2015. National Marine Fisheries Service, www.nmfs.noaa.gov/pr/sars/draft.htm, accessed December 3, 2015.
- Chilvers, B.L. 2008. New Zealand sea lions *Phocarctos hookeri* and squid trawl fisheries: Bycatch problems and management options. *Endangered Species Research* **5**:193-204.
- 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.
- Clyne, H., R. Leaper, and J. Kennedy. 1999. Computer simulation of interactions between the North Atlantic right whale (*Eubalaena glacialis*) and shipping. *European Research on Cetaceans* **13**:458.
- Committee on Taxonomy. 2015. List of marine mammal species and subspecies. Society for Marine Mammalogy, www.marinemammalscience.org, accessed December 3, 2015.
- Conn, P.B. and G.K. Silber. 2013. Vessel speed restrictions reduce risk of collision-related mortality for North Atlantic right whales. *Ecosphere* **4** (4):Article 43.
- 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.
- Costa, D.P., D.E. Crocker, J. Gedamke, P.M. Webb, D.S. Houser, S.B. Blackwell, et al. 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*. *Journal of the Acoustical Society of America* **113** (2):1155-1165.
- Cottrell, P.E., S. Jeffries, B. Beck, and P.S. Ross. 2002. Growth and development in free-ranging harbor seal (*Phoca vitulina*) pups from southern British Columbia, Canada. *Marine Mammal Science* **18** (3):721-733.
- Cox, T.M., A.J. Read, A. Solow, and N. Tregenza. 2001. Will harbour porpoises (*Phocoena phocoena*) habituate to pingers? *Journal of Cetacean Research and Management* **3** (1):81-86.
- Cox, T.M., T.J. Ragen, A.J. Read, E. Vos, R.W. Baird, K. Balcomb, et al. 2006. Understanding the impacts of anthropogenic sound on beaked whales. *Journal of Cetacean Research and Management* **7** (3):177-187.
- 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.
- Culik, B.M., S. Koschinski, N. Tregenza, and G.M. Ellis. 2001. Reactions of harbor porpoises *Phocoena phocoena* and herring *Clupea harengus* to acoustic alarms. *Marine Ecology Progress Series* **211**:255-260.
- Daan, S., C. Deerenberg, and C. Dijkstra. 1996. Increased daily work precipitates natural death in the kestrel. *Journal of Animal Ecology* **65** (5):6.
- Dawson, S.M. 1994. The potential for reducing entanglement of dolphins and porpoises with acoustic modifications to gillnets. Report of the International Whaling Commission **Special Issue 15**:573-578.
- Deng, Z.D., B.L. Southall, T.J. Carlson, J. Xu, J.J. Martinez, M.A. Weiland, and J.M. Ingraham. 2014. 200 kHz commercial sonar systems generate lower frequency side lobes audible to some marine mammals. *PLoS ONE* **9** (4):e95315.
- Di Iorio, L. and C.W. Clark. 2009. Exposure to seismic survey alters blue whale acoustic communication. *Biology Letters* **6** (1):51-54.
- Dolphin, W.F., W.W.L. Au, P.E. Nachtigall, and J. Pawloski. 1995. Modulation rate transfer functions to low-frequency carriers in three species of cetaceans. *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology* **177** (2):235-245.
- Dotson, R.C., D.A. Griffith, D.L. King, and R.L. Emmett. 2010. Evaluation of a marine mammal excluder device (MMED) for a Nordic 264 midwater rope trawl. NOAA Technical Memorandum NMFS-SWFSC-455, National Marine Fisheries Service: 19.

- 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.
- Evans, D.L. and G.R. England. 2001. Joint interim report: Bahamas marine mammal stranding event of 15-16 March 2000. U.S. Navy and National Marine Fisheries Service: 66.
- 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.
- FAO (Food and Agriculture Organization). 2001. Fishing gear types. Technology fact sheets. In: FAO Fisheries and Aquaculture Department, www.fao.org, accessed April 8, 2014.
- Fertl, D. and S. Leatherwood. 1997. Cetacean interactions with trawls: A preliminary review. *Journal of Northwest Atlantic Fishery Science* **22**:219-248.
- 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** (6):2929-2940.
- 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., D.A. Carder, R. Dear, T. Belting, J. McBain, L. Dalton, and S.H. Ridgway. 2005a. Pure tone audiograms and possible aminoglycoside-induced hearing loss in belugas (*Delphinapterus leucas*). *Journal of the Acoustical Society of America* **117** (6):3936-3943.
- Finneran, J.J., D.A. Carder, C.E. Schlundt, and S.H. Ridgway. 2005b. Temporary threshold shift in bottlenose dolphins (*Tursiops truncatus*) exposed to mid-frequency tones. *Journal of the Acoustical Society of America* **118** (4):2696-2705.
- Finneran, J.J., D.S. Houser, B. Mase-Guthrie, R.Y. Ewing, and R.G. Lingenfelser. 2009. Auditory evoked potentials in a stranded Gervais' beaked whale (*Mesoplodon europaeus*). *Journal of the Acoustical Society of America* **126** (1):484-490.

- Finneran, J.J. and C.E. Schlundt. 2010. Frequency-dependent and longitudinal changes in noise-induced hearing loss in a bottlenose dolphin (*Tursiops truncatus*). *Journal of the Acoustical Society of America* **128** (2):567-570.
- Finneran, J.J., D.A. Carder, C.E. Schlundt, and R.L. Dear. 2010. Temporary threshold shift in a bottlenose dolphin (*Tursiops truncatus*) exposed to intermittent tones. *Journal of the Acoustical Society of America* **127** (5):3267-3272.
- 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.
- 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** (1):50-86.
- Fox, K.S. 2008. Harbor seal behavioral response to boaters at Bair Island Refuge. M.S. thesis. San Jose State University: 86.
- Francis, C.D. and J.R. Barber. 2013. A framework for understanding noise impacts on wildlife: An urgent conservation priority. *Frontiers in Ecology and the Environment* **11** (6):305-313.
- 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.
- Frankel, A.S. 2005. Gray whales hear and respond to a 21-25 kHz high-frequency whale-finding sonar. Paper presented at the Sixteenth Biennial Conference on the Biology of Marine Mammals, San Diego, California.
- 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. *Journal of the 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. 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.

- Garrison, L.P. and L. Stokes. 2012. Estimated bycatch of marine mammals and sea turtles in the U.S. Atlantic pelagic longline fleet during 2011. NOAA Technical Memorandum NMFS-SEFSC-632, National Marine Fisheries Service: 61.
- Gearin, P.J., M.E. Gosho, J.L. Laake, L. Cooke, R.L. DeLong, and K.M. Hughes. 2000. Experimental testing of acoustic alarms (pingers) to reduce bycatch of harbour porpoise, *Phocoena phocoena*, in the state of Washington. *Journal of Cetacean Research and Management* **2** (1):1-10.
- Gende, S.M., A.N. Hendrix, K.R. Harris, B. Eichenlaub, J. Nielsen, and S. Pyare. 2011. A Bayesian approach for understanding the role of ship speed in whale-ship encounters. *Ecological Applications* **21** (6):2232-2240.
- Geraci, J.R., J. Harwood, and V.J. Lounsbury. 1999. Marine mammal die-offs: Causes, investigations, and issues. Pages 367-395 in J. Twiss and R. Reeves, eds. *Conservation and Management of Marine Mammals*. Smithsonian Institution Press, Washington, DC.
- Gerrodette, T. and J. Forcada. 2005. Non-recovery of two spotted and spinner dolphin populations in the eastern tropical Pacific Ocean. *Marine Ecology Progress Series* **291**:1-21.
- Gerrodette, T. and J. Pettis. 2005. Responses of tropical cetaceans to an echosounder during research vessel surveys. Paper presented at the Sixteenth Biennial Conference on the Biology of Marine Mammals, San Diego, California.
- Gibson, D., and B. Isakssen. 1998. Functionality of a full-sized marine mammal exclusion device. *Science for Conservation* 81, Department of Conservation, New Zealand: 18.
- 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.
- Gordon, J., D. Gillespie, J. Potter, A. Frantzis, M.P. Simmonds, R. Swift, and D. Thompson. 2003. A review of the effects of seismic surveys on marine mammals. *Marine Technology Society Journal* 37 (4):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.
- Greene, C.R. 1997. Physical acoustic measurements. *In*: Richardson, W.J. (ed). Northstar marine mammal monitoring program, 1996: Marine mammal and acoustical monitoring of a seismic program in the Alaskan Beaufort Sea. LGL Report TA2121-2, Prepared by LGL Ltd. And Greeneridge Sciences Inc. for BP Exploration (Alaska) Inc.: 245.
- Gustafson, R.G., M.J. Ford, D. Teel, and J.S. Drake. 2010. Status review of eulachon (*Thaleichthys pacificus*) in Washington, Oregon, and California. NOAA Technical Memorandum NMFS-NWFSC-105, National Marine Fisheries Service: 360.
- Hall, M.A., D.L. Alverson, and K.I. Metuzals. 2000. By-catch: Problems and solutions. Marine Pollution Bulletin **41** (1-6):204-219.
- Hamer, D.J. and S.D. Goldsworthy. 2006. Seal-fishery operational interactions: Identifying the environmental and operational aspects of a trawl fishery that contribute to by-catch and mortality of Australian fur seals (*Arctocephalus pusillus doriferus*). Biological Conservation **130** (4):517-529.
- 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.
- Harris, C.M., ed. 1998. Handbook of Acoustical Measurements and Noise Control. Acoustical Society of America, Woodbury, NY.
- Harrison, P.J., D.L. Mackas, B.W. Frost, R.W. Macdonald, and E.A. Crecelius. 1994. An assessment of nutrients, plankton, and some pollutants in the water column of Juan de Fuca Strait, Strait of Georgia and Puget Sound, and their transboundary transport. Pages 138-172 *in* Review of the marine environment and biota of Strait of Georgia, Puget Sound, and Juan de Fuca Strait: Proceedings of the BC/Washington Symposium on the Marine Environment, January 13 & 14, 1994. R.C.H. Wilson, R.J. Beamish, F. Aitkens, and J. Bell (eds.). Canadian Technical Report of Fisheries and Aquatic Sciences No. 1948: 398.
- Hastie, G.D., C. Donovan, T. Götz, and V.M. Janik. 2014. Behavioral responses by grey seals (*Halichoerus grypus*) to high frequency sonar. Marine Pollution Bulletin **79** (1-2):205-210.
- Hastings, M.C. and A.N. Popper. 2005. Effects of sound on fish. Prepared by Jones & Stokes for the California Department of Transportation: 82.
- Hemilä, S., S. Nummela, A. Berta, and T. Reuter. 2006. High-frequency hearing in phocid and otariid pinnipeds: An interpretation based on inertial and cochlear constraints (L). Journal of the Acoustical Society of America **120** (6):3463-3466.

- Hewitt, R. 2009. SWFSC interim guidelines for mitigating protected species interactions with fisheries survey gear. SWFSC Administrative Report LJ-09-07, National Marine Fisheries Service: 12.
- Hildebrand, J.A. 2009. Anthropogenic and natural sources of ambient noise in the ocean. *Marine Ecology Progress Series* 395:5-20.
- Hofmeyr, G., M. de Maine, M. Bester, S. Kirkman, P. Pistorius, and A. Makhado. 2002. Entanglement of pinnipeds at Marion Island, Southern Ocean: 1991-2001. *Australian Mammalogy* **24** (1):141-146.
- 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.
- Holt, S.J., and L.M. Talbot. 1978. New principles for the conservation of wild living resources. *Wildlife Monographs* **59**:6-33.
- 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. *Journal of the Acoustical Society of America* **125** (1):EL27-32.
- 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.
- Houser, D.S., D.A. Helweg, and P.W.B. Moore. 2001. A bandpass filter-bank model of auditory sensitivity in the humpback whale. *Aquatic Mammals* **27** (2):82-91.
- Houser, D.S., A. Gomez-Rubio, and J.J. Finneran. 2008. Evoked potential audiometry of 13 Pacific bottlenose dolphins (*Tursiops truncatus gilli*). *Marine Mammal Science* **24** (1):28-41.
- Houser, D.S. and P.W. Moore. 2014. Report on the current and future status of underwater hearing research. Report NMMF-001-14, National Marine Mammal Foundation: 46.
- 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.
- IWC (International Whaling Commission). 2012. Extracts from the IWC64 Scientific Committee report relevant to the GWAP. International Whaling Commission: 11.
- Jacobs, S.R. and J.M. Terhune. 2002. The effectiveness of acoustic harassment devices in the Bay of Fundy, Canada: Seal reactions and a noise exposure model. *Aquatic Mammals* **28** (2):147-158.

- Jensen, A.S. and G.K. Silber. 2004. Large whale ship strike database. NOAA Technical Memorandum NMFS-OPR-25, National Marine Fisheries Service: 37.
- Jepson, P.D., R. Deaville, K. Acevedo-Whitehouse, J. Barnett, A. Brownlow, R.L. Brownell, et al. 2013. What caused the UK's largest common dolphin (*Delphinus delphis*) mass stranding event? PLoS ONE **8** (4):e60953.
- 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.
- Johnson, C.S. 1967. Sound detection thresholds in marine mammals. Pages 247-260 in W.N. Tavolga, ed. Marine Bio-acoustics. Pergamon Press, Oxford.
- Johnston, D.W. 2002. The effect of acoustic harassment devices on harbour porpoises (*Phocoena phocoena*) in the Bay of Fundy, Canada. Biological Conservation **108** (1):113-118.
- Karpouzli, E. and R. Leaper. 2004. Opportunistic observations of interactions between sperm whales and deep-water trawlers based on sightings from fisheries observers in the northwest Atlantic. Aquatic Conservation: Marine and Freshwater Ecosystems **14** (1):95-103.
- Kastak, D.A. and R.J. Schusterman. 1998. Low-frequency amphibious hearing in pinnipeds: Methods, measurements, noise, and ecology. Journal of the Acoustical Society of America **103** (4):2216-2228.
- Kastak, D.A. and R.J. Schusterman. 1999. In-air and underwater hearing sensitivity of a northern elephant seal (*Mirounga angustirostris*). Canadian Journal of Zoology **77** (11):1751-1758.
- Kastak, D., R.J. Schusterman, B.L. Southall, and C.J. Reichmuth. 1999. Underwater temporary threshold shift induced by octave-band noise in three species of pinniped. Journal of the Acoustical Society of America **106** (2):1142-1148.
- Kastak, D., B.L. Southall, R.J. Schusterman, and C.R. Kastak. 2005. Underwater temporary threshold shift in pinnipeds: Effects of noise level and duration. Journal of the Acoustical Society of America **118** (5):3154-3163.
- Kastak, D., J. Mulsow, A. Ghoul, and C. Reichmuth. 2008. Noise-induced permanent threshold shift in a harbor seal. Journal of the Acoustical Society of America **123**:2986.
- Kastelein, R.A., H.T. Rippe, N. Vaughan, N.M. Schooneman, W.C. Verboom, and D. de Haan. 2000. The effects of acoustic alarms on the behavior of harbor porpoises (*Phocoena phocoena*) in a floating pen. Marine Mammal Science **16** (1):46-64.

- Kastelein, R.A., D. de Haan, N. Vaughan, C. Staal, and N.M. Schooneman. 2001. The influence of three acoustic alarms on the behaviour of harbour porpoises (*Phocoena phocoena*) in a floating pen. *Marine Environmental Research* **52** (4):351-371.
- Kastelein, R.A., P. Bunskoek, M. Hagedoorn, W.W.L. Au, and D. de Haan. 2002. Audiogram of a harbor porpoise (*Phocoena phocoena*) measured with narrow-band frequency-modulated signals. *Journal of the Acoustical Society of America* **112** (1):334-344.
- Kastelein, R.A., M. Hagedoorn, W.W.L. Au, and D. de Haan. 2003. Audiogram of a striped dolphin (*Stenella coeruleoalba*). *Journal of the Acoustical Society of America* **113** (2):1130-1137.
- Kastelein, R.A., R. Van Schie, W.C. Verboom, and D. de Haan. 2005a. Underwater hearing sensitivity of a male and a female Steller sea lion (*Eumetopias jubatus*). *Journal of the Acoustical Society of America* **118** (3):1820-1829.
- Kastelein, R.A., W.C. Verboom, M. Muijsers, N.V. Jennings, and S. Van der Heul. 2005b. 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., N. Jennings, W.C. Verboom, D. de Haan, and N.M. Schooneman. 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** (3):363-378.
- Kastelein, R.A., W.C. Verboom, N. Jennings, and D. de Haan. 2008a. Behavioral avoidance threshold level of a harbor porpoise (*Phocoena phocoena*) for a continuous 50 kHz pure tone. *Journal of the Acoustical Society of America* **123** (4):1858-1861.
- Kastelein, R.A., W.C. Verboom, N. Jennings, D. de Haan, and S. van der Heul. 2008b. The influence of 70 and 120 kHz tonal signals on the behavior of harbor porpoises (*Phocoena phocoena*) in a floating pen. *Marine Environmental Research* **66** (3):319-326.
- Kastelein, R.A., P. Wensveen, L. Hoek, and J.M. Terhune. 2009. Underwater hearing sensitivity of harbor seals (*Phoca vitulina*) for narrow noise bands between 0.2 and 80 kHz. *Journal of the Acoustical Society of America* **126** (1):476-483.
- Kastelein, R.A., R. Gransier, L. Hoek, A. Macleod, and J.M. Terhune. 2012a. Hearing threshold shifts and recovery in harbor seals (*Phoca vitulina*) after octave-band noise exposure at 4 kHz. *Journal of the Acoustical Society of America* **132** (4):2745-2761.

- Kastelein, R.A., R. Gransier, L. Hoek, and J. Olthuis. 2012b. Temporary threshold shifts and recovery in a harbor porpoise (*Phocoena phocoena*) after octave-band noise at 4 kHz. *Journal of the Acoustical Society of America* **132**:3525-3537.
- Ketten, D.R. 1998. Marine mammal auditory systems: A summary of audiometric and anatomical data and its implications for underwater acoustic impacts. NOAA Technical Memorandum NMFS-SWFSC-256, National Marine Fisheries Service: 97.
- Ketten, D.R., J. Arruda, S. Cramer, M. Yamato, A. Zosuls, D. Mountain, et al. 2007. How low can they go: Functional analyses of the largest land and marine mammal ears. Paper presented at the Seventeenth Biennial Conference on the Biology of Marine Mammals, Cape Town, South Africa.
- Ketten, D.R. and D.C. Mountain. 2009. Beaked and baleen whale hearing: Modeling responses to underwater noise. Report No. NPS-OC-09-005, Naval Postgraduate School: 34.
- Knowlton, A.R., F.T. Korsmeyer, J.E. Kerwin, H.-Y. Wu, and B. Hynes. 1995. The hydrodynamic effects of large vessels on right whales. National Marine Fisheries Service: 81.
- Knowlton, A.R. and S.D. Kraus. 2001. Mortality and serious injury of northern right whales (*Eubalaena glacialis*) in the western North Atlantic Ocean. *Journal of Cetacean Research and Management Special Issue* **2**:193-208.
- Kraus, S.D., A.J. Read, A. Solow, K. Baldwin, T. Spradlin, J. Williamson, E. Anderson, and J. Williamson. 1997. Acoustic alarms reduce porpoise mortality. *Nature* **388** (6642):525.
- 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.
- Kremser, U., P. Klemm, and W.-D. Kötz. 2005. Estimating the risk of temporary acoustic threshold shift, caused by hydroacoustic devices, in whales in the Southern Ocean. *Antarctic Science* **17** (1):3-10.
- 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.
- Kyhn, L.A., J. Tougaard, F. Jensen, M. Wahlberg, G. Stone, A. Yoshinaga, et al. 2009. Feeding at a high pitch: Source parameters of narrow band, high-frequency clicks from echolocating off-shore hourglass dolphins and coastal Hector's dolphins. *Journal of the Acoustical Society of America* **125** (3):1783-1791.

- Kyhn, L.A., F.H. Jensen, K. Beedholm, J. Tougaard, M. Hansen, and P.T. Madsen. 2010. Echolocation in sympatric Peale's dolphins (*Lagenorhynchus australis*) and Commerson's dolphins (*Cephalorhynchus commersonii*) producing narrow-band high-frequency clicks. *Journal of Experimental Biology* **213** (11):1940-1949.
- Laake, J., D. Rugh, and L. Baraff. 1998. Observations of harbor porpoise in the vicinity of acoustic alarms on a set gill net. NOAA Technical Memorandum NMFS-AFSC-84, National Marine Fisheries Service: 43.
- Laist, D.W., A.R. Knowlton, J.G. Mead, A.S. Collet, and M. Podesta. 2001. Collisions between ships and whales. *Marine Mammal Science* **17** (1):35-75.
- Lang, A.R., D.W. Weller, R. LeDuc, A.M. Burdin, V.L. Pease, D. Litovka, et al. 2011. Genetic analysis of stock structure and movements of gray whales in the eastern and western North Pacific. Scientific Committee Report SC/63/BRG10, International Whaling Commission: 20.
- Lankford, S.E., T.E. Adams, R.A. Miller, and J.J. Cech. 2005. The cost of chronic stress: Impacts of a nonhabituating stress response on metabolic variables and swimming performance in sturgeon. *Physiological and Biochemical Zoology* **78**:599-609.
- Larocque, S.M. 2011. Occurrence and mitigation of freshwater turtle bycatch and mortality associated with inland commercial hoop net fisheries. M.S. thesis, Carleton University: 92.
- Lawson, J.W. and D. Renouf. 1985. Parturition in the Atlantic harbor seal, *Phoca vitulina concolor*. *Journal of Mammalogy* **66** (2):395-398.
- Lawson, J.W. and D. Renouf. 1987. Bonding and weaning in harbor seals, *Phoca vitulina*. *Journal of Mammalogy* **68** (2):445-449.
- Leatherwood, S. 1975. Some observations of feeding behavior of bottle-nosed dolphins (*Tursiops truncatus*) in the northern Gulf of Mexico and (*Tursiops cf T. gilli*) off southern California, Baja California, and Nayarit, Mexico. *Marine Fisheries Review* **37** (9):10-16.
- Lewis, R.L., L.B. Crowder, B.P. Wallace, J.E. Moore, T. Cox, R. Zydelski, et al. 2014. Global patterns of marine mammal, seabird, and sea turtle bycatch reveal taxa-specific and cumulative megafauna hotspots. *Proceedings of the National Academy of Sciences* **111** (14):5271-5276.
- Lillis, A., D.B. Eggleston, and D.R. Bohnenstiehl. 2014. Estuarine soundscapes: Distinct acoustic characteristics of oyster reefs compared to soft-bottom habitats. *Marine Ecological Progress Series* **505**:1-17.
- Lucifredi, I. and P.J. Stein. 2007. Gray whale target strength measurements and the analysis of the backscattered response. *Journal of the Acoustical Society of America* **121** (3):1383-1391.

- 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** (6):4060-4070.
- Lurton, X. and S. DeRuiter. 2011. Sound radiation of seafloor-mapping echosounders in the water column, in relation to the risks posed to marine mammals. *International Hydrographic Review* **November**:7-17.
- Lurton, X. 2016. Modelling of the sound field radiated by multibeam echosounders for acoustical impact assessment. *Applied Acoustics* **101**: 201-221.
- 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.
- 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.
- 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. Report No. 5586, Prepared by Bolt Beranek and Newman, Inc. for Minerals Management Service: 357.
- ManTech-SRS Technologies. 2007. Marine mammal and sea turtle density estimates for the Pacific Northwest Study Area. Prepared by ManTech-SRS Technologies for the U.S. Navy: 38.
- Mapes, L.V. "Seals Tell Tales of Sound's Health." *The Seattle Times*: May 29, 2013.
- Mate, B., A. Bradford, G. Tsidulko, V. Vertyankin, and V. Ilyashenko. 2011. Late-feeding season movements of a western North Pacific gray whale off Sakhalin Island, Russia and subsequent migration into the eastern North Pacific. Scientific Committee Report SC/63/BRG23, International Whaling Commission: 7.
- May-Collado, L. and I. Agnarsson. 2006. Cytochrome *b* and Bayesian inference of whale phylogeny. *Molecular Phylogenetics and Evolution* **38** (2):344-354.
- McCauley, R.D., M.-N. Jenner, C. Jenner, K.A. McCabe, and J. Murdoch. 1998. The response of humpback whales (*Megaptera novaeangliae*) to offshore seismic survey noise: Preliminary results of observations about a working seismic vessel and experimental exposures. *APPEA Journal* **38**:692-707.

- 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.
- Mitchell, J.F., J.W. Watson, D.G. Foster, and R.E. Caylor. 1995. The turtle excluder device (TED): A guide to better performance. NOAA Technical Memorandum NMFS-SEFSC-366, National Marine Fisheries Service: 38.
- Mitson, R.B (ed.). 1995. Underwater noise of research vessels: Review and recommendations. Cooperative Research Report No. 209, International Council for the Exploration of the Sea: 65.
- MMC (Marine Mammal Commission). 1994. Annual Report to Congress: 1993. Marine Mammal Commission: 262.
- Moberg, G.P. 1987. Influence of the adrenal axis upon the gonads. Pages 456-496 *in* J. Clarke, ed. *Oxford Reviews in Reproductive Biology*. Oxford University Press, New York, New York.
- Moberg, G.P. 2000. Biological response to stress: Implications for animal welfare. Pages 1-21 *in* G.P. Moberg and J.A. Mench, eds. *The Biology of Animal Stress: Basic Principles and Implications for Animal Welfare*. CABI Publishing, Oxon, United Kingdom.
- Møhl, B. 1968. Auditory sensitivity of the common seal in air and water. *Journal of Auditory Research* **8**:27-38.
- Mooney, T.A., P.E. Nachtigall, M. Breese, S. Vlachos, and W.W.L. Au. 2009a. Predicting temporary threshold shifts in a bottlenose dolphin (*Tursiops truncatus*): The effects of noise level and duration. *Journal of the Acoustical Society of America* **125** (3):1816-1826.
- Mooney, T.A., P.E. Nachtigall, K.A. Taylor, M.H. Rasmussen, and L.A. Miller. 2009b. Auditory temporal resolution of a wild white-beaked dolphin (*Lagenorhynchus albirostris*). *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology* **195** (4):375-384.
- Moore, P.W.B. and R.J. Schusterman. 1987. Audiometric assessment of northern fur seals, *Callorhinus ursinus*. *Marine Mammal Science* **3** (1):31-53.
- Moore, J.E. and J.P. Barlow. 2013. Declining abundance of beaked whales (Family Ziphiidae) in the California Current Large Marine Ecosystem. *PloS ONE* **8** (1):e52770.
- Morgan, L.E. and R. Chuenpagdee. 2003. Shifting gears: Addressing the collateral impacts of fishing methods in U.S. waters. PEW Charitable Trusts: 52.

- Mortenson, J. 1996. Human Interference with Harbor Seals at Jenner, CA 1994-1995. Stewards of Slavianka, Sonoma Coast State Beaches, and Russian River/Mendocino Park District: 46.
- 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.
- Mulsow, J. and C. Reichmuth. 2007. Electrophysiological assessment of temporal resolution in pinnipeds. Aquatic Mammals **33** (1):122-131.
- Mulsow, J., C. Reichmuth, F. Gulland, D.A.S. Rosen, and J.J. Finneran. 2011a. Aerial audiograms of several California sea lions (*Zalophus californianus*) and Steller sea lions (*Eumetopias jubatus*) measured using single and multiple simultaneous auditory steady-state response methods. Journal of Experimental Biology **214** (7):1138-1147.
- Mulsow, J., J.J. Finneran, and D.S. Houser. 2011b. California sea lion (*Zalophus californianus*) aerial hearing sensitivity measured using auditory steady-state response and psychophysical methods. Journal of the Acoustical Society of America **129** (4):2298-2306.
- Muto, M.M. and R.P. Angliss (eds.). 2015. Alaska marine mammal stock assessments, 2015 (draft). National Marine Fisheries Service, www.nmfs.noaa.gov/pr/sars/draft.htm, accessed December 3, 2015.
- Nachtigall, P.E., A.Y. Supin, J.L. Pawloski, and W.W.L. Au. 2004. Temporary threshold shifts after noise exposure in the bottlenose dolphin (*Tursiops truncatus*) measured using evoked auditory potentials. Marine Mammal Science **20** (4):672-687.
- Nachtigall, P.E., M.M.L. Yuen, T.A. Mooney, and K.A. Taylor. 2005. Hearing measurements from a stranded infant Risso's dolphin, *Grampus griseus*. Journal of Experimental Biology **208** (21):4181-4188.
- Nachtigall, P.E., T.A. Mooney, K.A. Taylor, L.A. Miller, M.H. Rasmussen, T. Akamatsu, et al. 2008. Shipboard measurements of the hearing of the white-beaked dolphin *Lagenorhynchus albirostris*. Journal of Experimental Biology **211** (4):642-647.
- Navy. 2013. Determination of acoustic effects on marine mammals and sea turtles for the Atlantic Fleet Training and Testing Environmental Impact Statement/Overseas Environmental Impact Statement. NUWC-NPT Technical Report 12,071A, Naval Undersea Warfare Center Division: 131.
- 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.

- NMFS. 2012a. Process for distinguishing serious from non-serious injury of marine mammals. NMFS Policy Directive PD 02-038, 27 January 2012. National Marine Fisheries Service: 4.
- NMFS. 2012b. Process for distinguishing serious from non-serious injury of marine mammals – process for injury determinations. NMFS Instruction 02-038-01, 27 January 2012. National Marine Fisheries Service: 42.
- NMFS. 2013. Biological opinion on the Office of Coast Survey nationwide hydrographic survey of coastal waters. FPR-2013-9029, National Marine Fisheries Service: 83.
- NMFS. 2014. List of Fisheries for 2015. *79 Federal Register* 248 (29 December 2014), pp. 77919-77942.
- Northridge, S.P. 1984. World review of interactions between marine mammals and fisheries. FAO Fisheries Technical Paper No. 251, Food and Agriculture Organization: 190.
- Northridge, S.P. 1991. An updated world review of interactions between marine mammals and fisheries. FAO Fisheries Technical Paper No. 251, Suppl. 1, Food and Agriculture Organization: 58.
- Northridge, S. 2003. Further development of a dolphin exclusion device. Prepared by Sea Mammal Research Unit, University of St. Andrews for Department of Environment, Food, and Rural Affairs, United Kingdom: 11.
- Nowacek, D.P., M.P. Johnson, and P.L. Tyack. 2004. North Atlantic right whales (*Eubalaena glacialis*) ignore ships but respond to alerting stimuli. *Proceedings of the Royal Society of London Series B Biological Sciences* **271** (1536):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.
- NRC (National Research Council). 2003. Ocean noise and marine mammals. National Academy of Sciences: 220.
- NRC. 2005. Marine mammal populations and ocean noise: Determining when noise causes biologically significant effects. National Academy of Sciences: 142.
- Olesiuk, P.F., L.M. Nichol, M.J. Sowden, and J.K.B. Ford. 2002. Effect of the sound generated by an acoustic harassment device on the relative abundance and distribution of harbor porpoises (*Phocoena phocoena*) in Retreat Passage, British Columbia. *Marine Mammal Science* **18** (4):843-862.
- OWJV (Oregon Wetlands Joint Venture). 1994. Joint venture implementation plans: Lower Columbia River. Prepared by Oregon Wetlands Joint Venture for Pacific Coast Joint Venture: 24.

- Pace, R.M. and G.K. Silber. 2005. Simple analyses of ship and large whale collisions: Does speed kill? Paper presented at the Sixteenth Biennial Conference on the Biology of Marine Mammals, San Diego, California. Pages 215-216 in Proceedings of the Sixteenth Biennial Conference on the Biology of Marine Mammals.
- Pacini, A.F., P.E. Nachtigal, L.N. Kloepper, M. Linnenschmidt, A. Sogorb, and S. Matias. 2010. Audiogram of a formerly stranded long-finned pilot whale (*Globicephala melas*) measured using auditory evoked potentials. *Journal of Experimental Biology* **213** (18):3138-3143.
- Pacini, A.F., P.E. Nachtigall, C.T. Quintos, T.D. Schofield, D.A. Look, G.A. Levine, and J.P. Turner. 2011. Audiogram of a stranded Blainville's beaked whale (*Mesoplodon densirostris*) measured using auditory evoked potentials. *Journal of Experimental Biology* **214** (14):2409-2415.
- Palka, D.L., M.C. Rossman, A.S. VanAtten, and C.D. Orphanides. 2008. Effect of pingers on harbour porpoise (*Phocoena phocoena*) bycatch in the US northeast gillnet fishery. *Journal of Cetacean Research and Management* **10** (3):217-226.
- Parks, S.E., D.R. Ketten, J.T. O'Malley, and J. Arruda. 2007a. Anatomical predictions of hearing in the North Atlantic right whale. *Anatomical Record: Advances in Integrative Anatomy and Evolutionary Biology* **290** (6):734-744.
- Parks, S.E., C.W. Clark, and P.L. Tyack. 2007b. 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.
- Perez, M.A. 2006. Analysis of marine mammal bycatch data from the trawl, longline, and pot groundfish fisheries of Alaska, 1998-2004, defined by geographic area, gear type, and catch target groundfish species. NOAA Technical Memorandum NMFS-AFSC-167, National Marine Fisheries Service: 194.
- Perrin, W.F. 1969. Using porpoise to catch tuna. *World Fishing* **18**: 42-45.
- Perrin, W.F., B.G. Würsig, and J.G.M. Thewissen. 2009. *Encyclopedia of Marine Mammals* (Second Edition). Academic Press, San Diego.
- Pijanowski, B.C., L.J. Villanueva-Rivera, S.L. Dumyahn, A. Farina, B.L. Krause, B.M. Napoletano, et al. 2011. Soundscape ecology: The science of sound in the landscape. *BioScience* **61** (3):203-216.
- Popov, V.V. and A.Y. Supin. 1990a. An electrophysiological study of hearing in the freshwater dolphin, *Inia geoffrensis*. *Doklady Akademii Nauk SSSR* **313** (1):238-241.

- Popov, V. and A. Supin. 1990b. Electrophysiological studies of hearing in some cetaceans and a manatee. Pages 405-415 in J.A. Thomas and R.A. Kastelein, eds. *Sensory Abilities of Cetaceans: Laboratory and Field Evidence*. Plenum Press, New York.
- Popov, V.V., A.Y. Supin, D. Wang, K. Wang, J. Xiao, and S. Li. 2005. Evoked-potential audiogram of the Yangtze finless porpoise *Neophocaena phocaenoides asiaorientalis* (L). *Journal of the Acoustical Society of America* **117** (5):2728-2731.
- Popov, V.V., A.Y. Supin, M.G. Pletenko, M.B. Tarakanov, V.O. Klishin, T.N. Bulgakova, and E.I. Rosanova. 2007. Audiogram variability in normal bottlenose dolphins (*Tursiops truncatus*). *Aquatic Mammals* **33** (1):24-33.
- Popov, V.V., A.Y. Supin, D. Wang, K. Wang, L. Dong, and S. Wang. 2011. Noise-induced temporary threshold shift and recovery in Yangtze finless porpoises *Neophocaena phocaenoides asiaorientalis*. *Journal of the Acoustical Society of America* **130** (1):574-584.
- 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.
- Read, A.J. 1994. Stomach contents of long-finned pilot whales (*Globicephala melas*) taken in the foreign mackerel trawl fishery. Pages 70-91 in A.J. Read, J.E. Craddock, and D. Gannon, eds. *Life history of harbour porpoises and pilot whales taken in commercial fishing operations off the northeastern United States*. National Marine Fisheries Service, Woods Hole.
- Read, A.J., P. Drinker, and S. Northridge. 2006. Bycatch of marine mammals in U.S. and global fisheries. *Conservation Biology* **20** (1):163-169.
- Read, A.J. 2008. The looming crisis: Interactions between marine mammals and fisheries. *Journal of Mammalogy* **89** (3):541-548.
- Reeves, R.R., K. McClellan, and T.B. Werner. 2013. Marine mammal bycatch in gillnet and other entangling net fisheries, 1990 to 2011. *Endangered Species Research* **20** (1):71-97.
- Reichmuth, C. 2008. Amphibious hearing in pinnipeds, revisited. Paper presented at the Second International Conference on Acoustic Communication by Animals, Oregon State University, Corvallis, Oregon.
- Reichmuth, C. and M.M. Holt. 2013. Comparative assessment of amphibious hearing in pinnipeds. *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural and Behavioral Physiology* **199** (6):491-507.
- Reynolds, J.E. and S.A. Rommel. 1999. *Biology of Marine Mammals*. Smithsonian Institution Press, Washington, DC.

- Richardson, W.J., C.R. Greene, C.I. Malme, and D.H. Thomson. 1995. Marine Mammals and Noise. Academic Press, Inc., San Diego, California.
- 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.
- Rolland, R.M., S.E. Parks, K.E. Hunt, M. Castellote, P.J. Corkeron, D.P. Nowacek, et al. 2012. Evidence that ship noise increases stress in right whales. *Proceedings of the Royal Society of London Series B Biological Sciences* **279** (1737):2363-2368.
- Romano, T., M. Keogh, and K. Danil. 2002a. Investigation of the effects of repeated chase and encirclement on the immune system of spotted dolphins (*Stenella attenuata*) in the eastern tropical Pacific. Administrative Report LJ-02-35C, National Marine Fisheries Service: 37.
- Romano, T.A., D.L. Felten, S.Y. Stevens, J.A. Olschowka, V. Quaranta, and S.H. Ridgway. 2002b. Immune response, stress, and environment: Implications for cetaceans. Pages 253-279 in C.J. Pfeiffer, ed. *Molecular and Cell Biology of Marine Mammals*. Krieger Publishing Co., Malabar, Florida.
- Romano, T.A., M.J. Keogh, C. Kelly, P. Feng, L. Berk, C.R. Schlundt, et al. 2004. Anthropogenic sound and marine mammal health: Measures of the nervous and immune systems before and after intense sound exposure. *Canadian Journal of Fisheries and Aquatic Sciences* **61**:1124-1134.
- Schlundt, C.E., J.J. Finneran, D.A. Carder, and S.H. Ridgway. 2000. Temporary shift in masked hearing thresholds of bottlenose dolphins, *Tursiops truncatus*, and white whales, *Delphinapterus leucas*, after exposure to intense tones. *Journal of the Acoustical Society of America* **107** (6):3496-3508.
- Schlundt, C.E., R.L. Dear, D.S. Houser, A.E. Bowles, T. Reidarson, and J.J. Finneran. 2011. Auditory evoked potentials in two short-finned pilot whales (*Globicephala macrorhynchus*). *Journal of the Acoustical Society of America* **129** (2):1111-1116.
- Schusterman, R.J., R.F. Balliet, and J. Nixon. 1972. Underwater audiogram of the California sea lion by the conditioned vocalization technique. *Journal of the Experimental Analysis of Behavior* **17** (3):339-350.

- Scordino, J. 2010. West Coast Pinniped Program investigations on California sea lion and Pacific harbor seal impacts on salmonids and other fishery resources. Report to the Pacific States Marine Fisheries Commission: 106.
- SCWA (Sonoma County Water Agency). 2012. Russian River estuary management project: Report of activities and monitoring results, April 2009 to December 31, 2011. Sonoma County Water Agency: 33.
- Seyle, H. 1950. Stress and the general adaptation syndrome. *British Medical Journal* **June 17**:1383-1392.
- Sherman, K. and G. Hempel (eds.). 2009. The UNEP Large Marine Ecosystem Report: A perspective on changing conditions in LMEs of the world's regional seas. UNEP Regional Seas Report and Studies No. 182. United Nations Environment Programme: 872.
- Sih, A., A.M. Bell, and J.L. Kerby. 2004. Two stressors are far deadlier than one. *Trends in Ecology and Evolution* **19** (6):274-276.
- Silber, G.K., J. Slutsky, and S. Bettridge. 2010. Hydrodynamics of a ship/whale collision. *Journal of Experimental Marine Biology and Ecology* **391** (1-2):10-19.
- Song, K.-J., Z.G. Kim, C.I. Zhang, and Y.H. Kim. 2010. Fishing gears involved in entanglements of minke whales (*Balaenoptera acutorostrata*) in the East Sea of Korea. *Marine Mammal Science* **26** (2):282-295.
- Southall, B.L., R. Braun, F.M.D. Gulland, A.D. Heard, R.W. Baird, S.M. Wilkin, and T.K. Rowles. 2006. Hawaiian melon-headed whale (*Peponacephala electra*) mass stranding event of July 3-4, 2004. NOAA Technical Memorandum NMFS-OPR-31, National Marine Fisheries Service: 78.
- Southall, B.L., A.E. Bowles, W.T. Ellison, J.J. Finneran, R.L. Gentry, C.R. Greene, et al. 2007. Marine mammal noise exposure criteria: Initial scientific recommendations. *Aquatic Mammals* **33** (4):411-521.
- Southall, B.L., T. Rowles, F. Gulland, R.W. Baird, and P.D. Jepson. 2013. Final report of the Independent Scientific Review Panel investigating potential contributing factors to a 2008 mass stranding of melon-headed whales (*Peponocephala electra*) in Antsohihy, Madagascar. Independent Scientific Review Panel: 75.
- Staubitz, W.W., G.C. Bortleson, S.D. Semans, A.J. Tesoriero, and R.W. Black. 1997. Water-quality assessment of the Puget Sound Basin, Washington: Environmental setting and its implications for water quality and aquatic biota. Water-Resources Investigations Report 97-4013, U.S. Geological Survey: 83.

- Stevenson, D., L. Chiarella, D. Stephan, R. Reid, K. Wilhem, J. McCarthy, and M. Pentony. 2004. Characterization of the fishing practices and marine benthic ecosystems of the Northeast U.S. Shelf, and an evaluation of the potential effects of fishing on essential fish habitat. NOAA Technical Memorandum NMFS-NE-181, National Marine Fisheries Service: 179.
- 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.
- Supin, A.Y. and V.V. Popov. 1995. Envelope-following response and modulation transfer function in the dolphin's auditory system. *Hearing Research* **92** (1-2):38-46.
- Szymanski, M.D., D.E. Bain, K. Kiehl, S. Pennington, S. Wong, and K.R. Henry. 1999. Killer whale (*Orcinus orca*) hearing: Auditory brainstem response and behavioral audiograms. *Journal of the Acoustical Society of America* **106** (2):1134-1141.
- Taylor, B.L. 1993. "Best" abundance estimates and best management: Why they are not the same. NOAA Technical Memorandum NMFS-SWFSC-188, National Marine Fisheries Service: 22.
- 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.
- Terhune, J.M. and K. Ronald. 1971. The harp seal, *Pagophilus groenlandicus* (Erxleben, 1777). X. The air audiogram. *Canadian Journal of Zoology* **49** (3):385-390.
- Terhune, J.M. and K. Ronald. 1972. The harp seal, *Pagophilus groenlandicus* (Erxleben, 1777). III. The underwater audiogram. *Canadian Journal of Zoology* **50** (5):565-569.
- Tougaard, J. and L.A. Kyhn. 2010. Echolocation sounds of hourglass dolphins (*Lagenorhynchus cruciger*) are similar to the narrow band high-frequency echolocation sounds of the dolphin genus *Cephalorhynchus*. *Marine Mammal Science* **26** (1):239-245.
- Trippel, E.A., M.B. Strong, J.M. Terhune, and J.D. Conway. 1999. Mitigation of harbour porpoise (*Phocoena phocoena*) by-catch in the gillnet fishery in the lower Bay of Fundy. *Canadian Journal of Fisheries and Aquatic Sciences* **56** (1):113-123.
- Tubelli, A.A., A. Zosuls, D.R. Ketten, M. Yamato, and D.C. Mountain. 2012. A prediction of the minke whale (*Balaenoptera acutorostrata*) middle-ear transfer function. *Journal of the Acoustical Society of America* **132** (5):3263-3272.
- Urban R., J., D. Weller, O. Tyurneva, S. Swartz, A. Bradford, Y. Yakovlev, et al. 2013. Report on the photographic comparison of the Sakhalin Island and Kamchatka Peninsula with the

Mexican gray whale catalogue. Scientific Committee report SC/65/BRG04, International Whaling Commission: 5.

- Urick, R.J. 1983. Principles of Underwater Sound. Peninsula Publishing, Los Altos, CA.
- VanBlaricom, G.R. 2010. Marine mammal monitoring annual report 2007-2008. University of Washington: 12.
- Vanderlaan, A.S. and C.T. Taggart. 2007. Vessel collisions with whales: The probability of lethal injury based on vessel speed. *Marine Mammal Science* **23** (1):144-156.
- Wade, P.R. 1998. Calculating limits to the allowable human-caused mortality of cetaceans and pinnipeds. *Marine Mammal Science* **14** (1):1-37.
- Ward, W.D. 1997. Effects of high-intensity sound. Pages 1497-1507 *in* M.J. Crocker, ed. *Encyclopedia of Acoustics, Volume III*. John Wiley & Sons, New York.
- Waring, G.T., P. Gerrior, P.M. Payne, B.L. Parry, and J.R. Nicolas. 1990. Incidental take of marine mammals in foreign fishery activities off the northeast United States, 1977-88. *Fishery Bulletin* **88** (2):347-360.
- 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.
- Watkins, W.A., K.E. Moore, and P.L. Tyack. 1985. Sperm whale acoustic behaviors in the southeast Caribbean. *Cetology* **49**:1-15.
- Watkins, W.A. 1986. Whale reactions to human activities in Cape Cod waters. *Marine Mammal Science* **2** (4):251-262.
- 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.
- Weller, D.W., A. Klimek, A.L. Bradford, J. Calambokidis, A.R. Lang, B. Gisborne, et al. 2011. Movements of western gray whales from the Okhotsk Sea to the eastern North Pacific. *Scientific Committee Report SC/63/BRG6*, International Whaling Commission: 5.
- Weller, D.W., A. Klimek, A.L. Bradford, J. Calambokidis, A.R. Lang, B. Gisborne, et al. 2012. Movements of gray whales between the western and eastern North Pacific. *Endangered Species Research* **18** (3):193-199.

- White, M.J., D. Ljungblad, J. Norris, and K. Baron. 1977. Auditory thresholds of two beluga whales, *Delphinapterus leucas*. Paper presented at the Second Biennial Conference on the Biology of Marine Mammals, San Diego, California.
- Wickens, P.A. 1995. A review of operational interactions between pinnipeds and fisheries. FAO Fisheries Technical Paper No. 346, Food and Agriculture Organization: 86.
- Wilkinson, T., E. Wiken, J. Bezaury-Creel, T. Hourigan, T. Agardy, H. Herrman, et al. 2009. Marine Ecoregions of North America. Commission for Environmental Cooperation: 200.
- Wood, J., B.L. Southall, and D.J. Tollit. 2012. PG&E Offshore 3-D Seismic Survey Project EIR – Marine Mammal Technical Draft Report. SMRU Ltd.: 124.
- Wright, A.J., M. Maar, C. Mohn, J. Nabe-Nielsen, U. Siebert, L.F. Jensen, et al. 2013. Possible causes of a harbour porpoise mass stranding in Danish waters in 2005. PLoS ONE **8** (2):e55553.
- Yazvenko, S.B., T.L. McDonald, S.A. Blokhin, S.R. Johnson, H.R. Melton, M.W. Newcomer, et al. 2007. Feeding of western gray whales during a seismic survey near Sakhalin Island, Russia. Environmental Monitoring and Assessment **134** (1-3):93-106.
- Young, N.M. and S. Iudicello. 2007. Worldwide bycatch of cetaceans: An evaluation of the most significant threats to cetaceans, the affected species and the geographic areas of high risk, and the recommended actions from various independent institutions. NOAA Technical Memorandum NMFS-OPR-36, National Marine Fisheries Service: 275.
- Yuen, M.M.L., P.E. Nachtigall, M. Breese, and A.Y. Supin. 2005. Behavioral and auditory evoked potential audiograms of a false killer whale (*Pseudorca crassidens*). Journal of the Acoustical Society of America **118** (4):2688-2695.
- Zeeberg, J., A. Corten, and E. de Graaf. 2006. Bycatch and release of pelagic megafauna in industrial trawler fisheries off northwest Africa. Fisheries Research **78** (2-3):186-195.
- Zimmer, W.M.X. and P.L. Tyack. 2007. Repetitive shallow dives pose decompression risk in deep-diving beaked whales. Marine Mammal Science **23** (4):888-925.
- Zollett, E.A. 2009. Bycatch of protected species and other species of concern in US east coast commercial fisheries. Endangered Species Research **9**:49-59.
- Zykov, M. and S. Carr. 2014. Acoustic Modeling Report: Atlantic G&G Programmatic EIS. Appendix D in Atlantic OCS proposed geological and geophysical activities, Mid-Atlantic and South Atlantic Planning Areas: Final Programmatic Environmental impact Statement. Prepared by JASCO Applied Sciences for CSA Ocean Sciences Inc. under contract to Bureau of Ocean Energy Management: 100.