

References

- Acevedo, A. and M.A. Smultea. 1995. First records of humpback whales including calves at Golfo Dulce and Isla del Coco, Costa Rica, suggesting geographical overlap of northern and southern hemisphere populations. *Mar. Mamm. Sci.* 11(4):554-560.
- Adams, J., J. Felis, J.W. Mason, and J.Y. Takekawa. 2014. Pacific Continental Shelf Environmental Assessment (PaCSEA): aerial seabird and marine mammal surveys off northern California, Oregon, and Washington, 2011-2012. U.S. Dept. of the Interior, Bureau of Ocean Energy Management, Pacific OCS Region, Camarillo, CA. OCS Study BOEM 2014-003. 266 p.
- Allen, A.N., J.J. Schanze, A.R. Solow, and P.L. Tyack. 2014. Analysis of a Blainville's beaked whale's movement response to playback of killer whale vocalizations. *Marine Mammal Science* 30 (1):154-168.
- Anderwald, P., A. Brandecker, M. Coleman, C. Collins, H. Denniston, M.D. Haberlin, M. O'Donovan, R. Pinfield, F. Visser, and L. Walshe. 2013. Displacement responses of a mysticete, an odontocete, and a phocid seal to construction-related vessel traffic. *Endang. Species Res.* 21(3):231-240.
- André, M., M. Solé, M. Lenoir, M. Durfort, C. Quero, A. Mas, et al. 2011. Low-frequency sounds induce acoustic trauma in cephalopods. *Frontiers in Ecology and the Environment* 9 (9):489-493.
- ANSI (American National Standards Institute). 1986. Methods of measurement for impulse noise 3 (ANSI S12.7-1986). 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.
- ANSI. 1995. Bioacoustical Terminology (ANSI S3.20-1995). Acoustical Society of America, Woodbury, NY.
- Antonelis, G.A. and C.H. Fiscus. 1980. The pinnipeds of the California current. *Calif. Coop. Oceanogr. Fish. Invest. Rep.* 21:68-78.
- Archer, F.I. 2009. Striped dolphin *Stenella coeruleoalba*. p. 1127-1129 In: W.F. Perrin, B. Würsig, and J.G.M. Thewissen (eds.), *Encyclopedia of marine mammals*, 2nd edit. Academic Press, San Diego, CA. 1316 p.
- 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.
- Arnbom, T. and H. Whitehead. 1989. Observations on the composition and behaviour of groups of female sperm whale near the Galápagos Islands. *Can. J. Zool.* 67(1):1-7.
- Aurioles-Gamboa, D., C. J. Hernandez-Camacho, and E. Rodriguez-Krebs. (1999). Notes on the southernmost records of the Guadalupe fur seal, *Arctocephalus townsendi*, in Mexico. *Marine Mammal Science*, 15(2), 581-583.
- Aurioles-Gamboa, D., F. Elorriaga-Verplancken, and C.J. Hernandez-Camacho. 2010. The current population status of Guadalupe fur seal (*Arctocephalus townsendi*) on the San Benito Islands, Mexico. *Mar. Mamm. Sci.* 26(2):402-408.
- Ayres, K.L., Booth, R.K., Hempelmann, J.A., Koski, K.L., Emmons, C.K., Baird, R.W., Balcomb-Bartok, K., Hanson, M.B., Ford, M.J. and Wasser, S.K., 2012. Distinguishing the impacts of inadequate prey and vessel traffic on an endangered killer whale (*Orcinus orca*) population. *PLoS One*, 7(6).

- Azzara, A.J., W.M. von Zharen, and J.J. Newcomb. 2013. Mixed-methods analytic approach for determining potential impacts of vessel noise on sperm whale click behavior. *J. Acoust. Soc. Am.* 134(6):4566-4574.
- Bailey, H., B.R. Mate, D.M. Palacios, L. Irvine, S.J. Bograd, and D.P. Costa. 2009. Behavioural estimation of blue whale movements in the Northeast Pacific from state-space model analysis of satellite tracks. *Endang. Spec. Res.* 10:93-106.
- Bailey, H., P. S. Hammond, and P. M. Thompson. (2014). Modelling harbour seal habitat by combining data from multiple tracking systems. *Journal of Experimental Marine Biology and Ecology*, 450, 30–39.
- Bain, D.E., J.C. Smith, R. Williams and D. Lusseau. 2006. Effects of vessels on behavior of southern resident killer whales (*Orcinus spp.*). National Marine Fisheries Service Contract Report No. AB133F03SE0959 and AB133F04CN0040. 61 pp.
- Baird, R.S., E.L. Walters, and P.J. Stacey. 1993. Status of the bottlenose dolphin, *Tursiops truncatus*, with special reference to Canada. *Can. Field-Nat.* 107(4):466-480.
- Baird, R.W. 1994. Foraging behaviour and ecology of transient killer whales. Ph.D. thesis, Simon Fraser University, Burnaby, B.C.
- Baird, R.W. 2001. Status of killer whales, *Orcinus orca*, in Canada. *Can. Field-Nat.* 115(4):676-701.
- Baird, R.W. 2018a. Cuvier's beaked whale *Ziphius cavirostris*. p. 234-237 In: B. Würsig, J.G.M. Thewissen, and K.M. Kovacs (eds.), *Encyclopedia of Marine Mammals*, 3rd Edition. Academic Press/Elsevier, San Diego, CA. 1157 p.
- Baird, R.W. 2018b. False killer whale *Pseudorca crassidens*. p. 347-349 In: B. Würsig, J.G.M. Thewissen, and K.M. Kovacs (eds.), *Encyclopedia of Marine Mammals*, 3rd Edition. Academic Press/Elsevier, San Diego, CA. 1157 p.
- Baird, R.W. and M.B. Hanson. 1997. Status of the northern fur seal, *Callorhinus ursinus* in Canada. *Can. Field-Nat.* 111(2):263-269.
- Baird, R.W., D. Nelson, J. Lien, and D.W. Nagorsen. 1996. The status of the pygmy sperm whale, *Kogia breviceps*, in Canada. *Can. Field-Nat.* 110(3):525-532.
- Baker, C. S. 1985. The population structure and social organization of humpback whales (*Megaptera novaeangliae*) in the Central and Eastern North Pacific. University of Hawaii.
- Baker, C.S. and L.M. Herman. 1989. Behavioral responses of summering humpback whales to vessel traffic: experimental and opportunistic observations. NPS-NR-TRS-89-01. Rep. from Kewalo Basin Mar. Mamm. Lab., Univ. Hawaii, Honolulu, HI, for U.S. Natl. Park Serv., Anchorage, AK. 50 p. NTIS PB90-198409.
- Baker, C.S., L.M. Herman, B.G. Bays, and G.B. Bauer. 1983. The impact of vessel traffic on the behavior of humpback whales in southeast Alaska: 1982 season. Rep. from Kewalo Basin Mar. Mamm. Lab., Honolulu, HI, for U.S. Nat. Mar. Mamm. Lab., Seattle, WA. 30 p.
- Baker, C.S., L.M. Herman, B.G. Bays, and G.B. Bauer. 1983. The impact of vessel traffic on the behavior of humpback whales in southeast Alaska: 1982 season. Rep. from Kewalo Basin Mar. Mamm. Lab., Honolulu, HI, for U.S. Nat. Mar. Mamm. Lab., Seattle, WA. 30 p. + fig., tables.
- Baker, C.S., L.M. Herman, B.G. Bays, and W.F. Stifel. 1982. The impact of vessel traffic on the behavior of humpback whales in southeast Alaska. Rep. from Kewalo Basin Mar. Mamm. Lab., Honolulu, HI, for U.S. Natl. Mar. Fish. Serv., Seattle, WA. 78 p.

- Balcomb, K.C. 1989. Baird's beaked whales *Berardius bairdii* Stejneger, 1883; Arnoux's beaked whale *Berardius arnuxii* Duvernoy, 1851. p. 261-288 In: Ridgway, S.H. and S.R. Harrison (eds.), Handbook of marine mammals, Vol. 4: River dolphins and the larger toothed whales. Academic Press, London, U.K. 442 p.
- Barber, JR, Crooks, K.R., Fristrup, K.M. 2010. The costs of chronic noise exposure for terrestrial organisms. *Trends Ecol Evol.* 2010 Mar;25(3):180-9.
- Barkaszi, M.J., M. Butler, R. Compton, A. Unietis, and B. Bennet. 2012. Seismic survey mitigation measures and marine mammal observer reports. U.S. Dept. of the Interior, Bureau of Ocean Energy Management, Gulf of Mexico OCS Region, New Orleans, LA. OCS Study BOEM 2012-015. 28 pp + apps.
- Barlow, J. 1988. Harbor porpoise, *Phocoena phocoena*, abundance estimation for California, Oregon, and Washington: I. Ship surveys. *Fish. Bull.* 86(3):417-432.
- Barlow, J. 1994. Recent information on the status of large whales in California waters (Vol. 203). *Nat. Mar. Fish. Serv., Southwest Fish. Sci. Center.*
- Barlow, J. 1995. The abundance of cetaceans in California waters: Part I. Ship surveys in summer and fall of 1991. *Fish. Bull.* 93(1):1-14.
- Barlow, J. 1997. Preliminary estimates of cetacean abundance off California, Oregon and Washington based on a 1996 ship survey and comparisons of passing and closing modes. *Admin. Rep. LJ-97-11. Nat. Mar. Fish. Serv., Southwest Fish. Sci. Center, La Jolla, CA.* 31 p.
- Barlow, J. 2003. Preliminary estimates of the abundance of cetaceans along the U.S. west coast: 1991-2001. *Admin. Rep. LJ-03-03. Nat. Mar. Fish. Serv., Southwest Fish. Sci. Center, La Jolla, CA.* 31 p.
- Barlow, J. 2010. Cetacean abundance in the California Current estimated from a 2008 ship-based line-transect survey. NOAA Tech. Memo. NMFS NOAA-TM-NMFS-SWFSC-456. U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration, National Marine Fisheries Service, and Southwest Fisheries Science Centre. 19 p.
- Barlow, J. 2014. California Current cetacean and ecosystem survey (CalCurCEAS): End-of-Leg Report: Aug. 16-26, 2014. CalCurSEAS 2014 – End of Leg 1 Report. *Nat. Mar. Fish. Service, Southwest Fish. Sci. Centre.* Available at https://swfsc.noaa.gov/uploadedFiles/Divisions/PRD/Projects/Research_Cruises/US_West_Coast/CalCurCEAS/CalCurCEAS.Leg1EndReport.pdf.
- Barlow, J. 2016. Cetacean abundance in the California Current estimated from ship-based line-transect surveys in 1991-2014. NOAA Admin. Rep. LJ-16-01. 31 p. + appendix.
- Barlow, J. and R. Gisiner. 2006. Mitigating, monitoring and assessing the effects of anthropogenic sound on beaked whales. *J. Cetac. Res. Manage.* 7(3):239-249.
- Barlow, J., M. Ferguson, E. Becker, J. Redfern, K. Forney, I. Vilchis, P. Fiedler, T. Gerrodette, and L. Ballance. (2009). *Predictive Modeling of Cetacean Densities in the Eastern Pacific Ocean* (NOAA Technical Memorandum NMFS-SWFSC-444). La Jolla, CA: Southwest Fisheries Science Center.
- Barros, N.B., D.A. Duffield, P.H. Ostrom, D.K. Odell, and V.R. Cornish. 1998. Nearshore vs. offshore ecotype differentiation of *Kogia breviceps* and *K. simus* based on hemoglobin, morphometric and dietary analyses. *Abstr. World Mar. Mamm. Sci. Conf., Monaco*, 20–24 Jan. 1998.
- Baumann-Pickering, S., M.A. Roch, R.L. Brownell, Jr., A.E. Simonis, M.A. McDonald, A. Solsona-Berga, E.M. Oleson, S.M. Wiggins, and J.A. Hildebrand. 2014. Spatio-

- temporal patterns of beaked whale echolocation signals in the North Pacific. PLoS One 9(1):e86072. <http://dx.doi.org/doi:10.1371/journal.pone.0086072>.
- Beauchamp, Guy & Livoreil, Barbara. 1997. The effect of group size on vigilance and feeding rate in spiny finches (*Lonchura punctata*). Canadian Journal of Zoology. 75. 1526-1531. 10.1139/z97-776.
- Becker, E. A., K. A. Forney, M. C. Ferguson, D. G. Foley, R. C. Smith, J. Barlow, and J. V. Redfern. (2010). Comparing California Current cetacean–habitat models developed using in situ and remotely sensed sea surface temperature data. Marine Ecology Progress Series, 413, 163–183.
- Becker, E.A. 2007. Predicting seasonal patterns of California cetacean density based on remotely sensed environmental data. Ph.D. Thesis, Univ. Calif. Santa Barbara, Santa Barbara, CA. 284 p.
- Becker, E.A. 2007. Predicting seasonal patterns of California cetacean density based on remotely sensed environmental data. Ph.D. Thesis, Univ. Calif. Santa Barbara, Santa Barbara, CA. 284 p.
- Becker, E.A., K.A. Forney, D.G. Foley, R.C. Smith, T.J. Moore, and J. Barlow. 2014. Predicting seasonal density patterns of California cetaceans based on habitat models. Endang. Species Res. 23: 1-22.
- Becker, E.A., K.A. Forney, M.C. Ferguson, J. Barlow, and J.V. Redfern. 2012. Predictive modeling of cetacean densities in the California Current ecosystem based on summer/fall ship surveys in 1991-2008. NOAA Tech. Memo. NOAA-TM-NMFS-SWFSC-499. Nat. Mar. Fish. Service, Southwest Fish. Sci. Centre. 45 p.
- Becker, E.A., K.A. Forney, P.C. Fiedler, J. Barlow, S.J. Chivers, C.A. Edwards, A.M. Moore, J.V. Redfern. 2016. Moving towards dynamic ocean management: How well do modeled ocean products predict species distributions? Remote Sens. 8(149). <https://doi.org/10.3390/rs8020149>.
- Bejder, L., A. Samuels, H. Whitehead, H. Finn, 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 (2009), pp. 177-185.
- Best, B.D., C.H. Fox, R. Williams, P.N. Halpin, and P.C. Paquet. 2015. Updated marine mammal distribution and abundance estimates in British Columbia. J. Cetacean Res. Manage. 15:9-26.
- Best, P.B. 1979. Social organization in sperm whales, *Physeter macrocephalus*. p. 227-289 In: H.E. Winn and B.L. Olla (eds.), Behavior of marine animals, Vol. 3. Plenum, New York, NY.
- Best, P.B. 1982. Whales: Why do they strand? African Wildlife 36 (3):96-99.
- 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. NOAA Tech. Memo. NMFS-SWFSC-540. Nat. Mar. Fish. Service, Southwest Fish. Sci. Center, La Jolla, CA. 240 p.
- Bigg, M. A. 1969. The harbour seal in British Columbia. Fish. Res. Board Can. Bull. 172. 33 p.
- Bigg, M.A. 1981. Harbor seal, *Phoca vitulina*, Linnaeus, 1758 and *Phoca largha*, Pallas, 1811. p. 1-27 In: Ridgeway, S.H. and R.J. Harrison (eds.), Handbook of marine mammals, Vol. 2: Seals. Academic Press, New York, NY. 359 p.

- Bigg, M.A. 1988. Status of the northern sea lion, *Eumetopias jubatus*, in Canada. *Can. Field-Nat.* 102(2):315-336.
- Bigg, M.A. 1990. Migration of northern fur seals (*Callorhinus ursinus*) off western North America. *Can. Tech. Rep. Fish. Aqu. Sci.* 1764.
- Bittencourt, L., I.M.S. Lima, L.G. Andrade, R.R. Carvalho, T.L. Bisi, J. Lailson-Brito, Jr., and A.F. Azevedo. 2016. Underwater noise in an impacted environment can affect Guiana dolphin communication. *Mar. Poll. Bull.*
<https://doi.org/10.1016/j.marpolbul.2016.10.037>.
- Blackwell, S.B., C.S. Nations, T.L. McDonald, A.M. Thode, D. Mathias, K.H. Kim, C.R. Greene, Jr., and A.M. Macrander. 2015. Effects of airgun sounds on bowhead whale calling rates: Evidence for two behavioral thresholds. *PLoS ONE* 10(6):e0125720. doi:10.1371/journal.pone.0125720.
- Blackwell, S.B., C.S. Nations, T.L. McDonald, C.R. Greene, Jr., A.M. Thode, M. Guerra, and A.M. Macrander. 2013. Effects of airgun sounds on bowhead whale calling rates in the Alaskan Beaufort Sea. *Mar. Mamm. Sci.* <https://doi.org/10.1111/mms.12001>.
- Blaxter, J.H.S., J.A.B. Gray, and E.J. Denton. 1981. Sound and startle responses in herring shoals. *Journal of the Marine Biological Association of the United Kingdom* 61: 851-870.
- 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.
- Boeger, W.A., M.R. Pie, A. Ostrensky, and M.F. Cardoso. 2006. The effect of exposure to seismic prospecting on coral reef fishes. *Brazilian Journal of Oceanography* 54:235-239.
- Bolle, L.J., C.A. de Jong, S.M. Bierman, P.J. van Beek, O.A. van Keeken, P.W. Wessels, et al. 2012. Common sole larvae survive high levels of pile-driving sound in controlled exposure experiments. *PLoS ONE* 7 (3):e33052.
- Bonnell, M.L., C.E. Bowlby, and G.A. Green. 1992. Pinniped distribution and abundance off Oregon and Washington, 1989–1990. In: J.J. Brueggeman (ed.), *Oregon and Washington marine mammal and seabird surveys*. Minerals Management Service Contract Report 14-12-0001-30426.
- Booman, C., J. Dalen, H. Leivestad, A. Levsen, T. van der Meeren, and K. Toklum. 1996. Effects of airgun shooting on eggs, larvae, and fry. Norwegian Institute of Marine Research. *Fisken og Havet* Nr. 3. (Norwegian with English summary.)
- 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.
- Braham, H.W. 1984. Distribution and migration of gray whales in Alaska. p. 249-266 In: Jones, M.L., S.L. Swartz, and S. Leatherwood (eds.), *The gray whale *Eschrichtius robustus**. Academic Press, Orlando, FL. 600 p.
- Branstetter, B.K., J.S. Trickey, H. Aihara, J.J. Finneran, and T.R. Liberman. 2013. Time and frequency metrics related to auditory masking of a 10 kHz tone in bottlenose dolphins (*Tursiops truncatus*). *J. Acoust. Soc. Am.* 134(6):4556-4565.
- Branstetter, B.K., K.L. Bakhtiari, J.S. Trickey, and J.J. Finneran. 2016. Hearing mechanisms and noise metrics related to auditory masking in bottlenose dolphins (*Tursiops truncatus*). p.

- 109-116 In: A.N. Popper and A. Hawkins (eds.), *The effects of noise on aquatic life II*. Springer, New York, NY. 1292 p.
- Breitzke, M., O. Boebel, S. El Naggar, W. Jokat, and B. Werner. 2008. Broad-band calibration of marine seismic sources used by R/V *Polarstern* for academic research in polar regions. *Geophysical Journal International* **174** (2):505-524.
- Briggs, H.B., D.G. Calkins, R.W. Davis, and R. Thorne. 2005. Habitat associations and diving activity of subadult Steller sea lions (*Eumetopias jubatus*) during the winter and spring in the north-central Gulf of Alaska. Abstr. 16th Bienn. Conf. Biol. Mar. Mamm., 12–16 Dec. 2005, San Diego, CA.
- Bröker, K., J. Durinck, C. Vanman, and B. Martin. 2013. Monitoring of marine mammals and the sound scape during a seismic survey in two license blocks in the Baffin Bay, West Greenland, in 2012. p. 32 In: Abstr. 20th Bienn. Conf. Biol. Mar. Mamm., 9–13 December 2013, Dunedin, New Zealand. 233 p.
- Brownell, R.L., P.J. Clapham, T. Miyashita, and T. Kasuya. 2001. Conservation status of North Pacific right whales. **J. Cetacean Res. Manage.** (Special Issue 2):269-286.
- Brownell, R.L., W.A. Walker, and K.A. Forney. 1999. Pacific white-sided dolphin *Lagenorhynchus obliquidens* (Gray, 1828). p. 57-84 In: S.H. Ridgway and S.R. Harrison (eds.), *Handbook of marine mammals*, Vol. 6: *The second book of dolphins and porpoises*. Academic Press, London, UK. 486 p.
- Brueggeman, J.J., G.A. Green, K.C. Balcomb, C.E. Bowlby, R.A. Grotfendt, K.T. Briggs, M.L. Bonnell, R.G. Ford, D.H. Varoujean, D. Heinemann, and D.G. Chapman. 1990. Oregon-Washington marine mammal and seabird survey: information synthesis and hypothesis formulation. OCS Study MMS 89-0030. Rep. from Envirosphere Co., Bellevue, WA, and Ecological Consulting Inc., Portland, OR, for U.S. Minerals Manage. Serv., Pacific Region, Los Angeles, CA. 374 p.
- Buchanan, J.B., D.H. Johnson, E.L. Greda, G.A. Green, T.R. Wahl, and S.J. Jeffries. 2001. Wildlife of coastal and marine habitats. p. 389-422 In: D.H. Johnson and T.A. O’Neil (eds.), *Wildlife-habitat relationships in Oregon and Washington*. Oregon State University Press.
- Caballero, S., H. Hamilton, C. Jaramillo, J. Capella, L. Flórez-González, C. Olavarria, H. Rosenbaum, F. Guhl, and C.S. Baker. 2001. Genetic characterisation of the Colombian Pacific Coast humpback whale population using RAPD and mitochondrial DNA sequences. *Mem. Queensl. Mus.* 47(2):459-464.
- Calambokidis, J. and Barlow, J. 2013. Updated abundance estimates of blue and humpback whales off the US west coast incorporating photo-identifications from 2010 and 2011. Final report for contract AB133F-10-RP-0106. Document PSRG-2013-13R. 8 p. Accessed in October 2018 at
- Calambokidis, J. and J. Barlow. 2004. Abundance of blue and humpback whales in the eastern North Pacific estimated by capture-recapture and line-transect methods. **Mar. Mamm. Sci.** 20:63-85.
- Calambokidis, J. and J. Quan. 1999. Photographic identification research on seasonal resident whales in Washington State. US Dep. Commer., NOAA Tech. Mem. NMFS-AFSC-103:55. Status review of the eastern North Pacific stock of gray whales. 96 p.
- Calambokidis, J., E.A. Falcone, T.J. Quinn, A.M. Burdin, P.J. Clapham, J.K.B. Ford, C.M. Gabriele, R. LeDuc, D. Mattila, L. Rojas-Bracho, J.M. Straley, B.L. Taylor, J. Urban R., D. Weller, B.H. Witteveen, M. Yamaguchi, A. Bendlin, D. Camacho, K. Flynn, A.

- Havron, J. Huggins, and N. Maloney. 2008. SPLASH: structure of populations, levels of abundance and status of humpback whales in the North Pacific. Rep. AB133F-03-RP-0078 for U.S. Dept. of Comm., Seattle, WA.
- Calambokidis, J., G. H. Steiger, D.K. Ellifrit, B.L. Troutman, and C.E. Bowlby. 2004. Distribution and abundance of humpback whales (*Megaptera novaeangliae*) and other marine mammals off the northern Washington coast. **Fish. Bull.** 102:563-580.
- Calambokidis, J., G.H Steiger, K. Rasmussen, J. Urbán R., K.C. Balcomb, P. Ladrón De Guevara, M. Salinas Z., J.K. Jacobsen, C.S. Baker, L.M. Herman, S. Cerchio, and J.D. Darling. 2000. Migratory destinations of humpback whales from the California, Oregon and Washington feeding ground. **Mar. Ecol. Prog. Ser.** 192:295-304.
- Calambokidis, J., G.H. Steiger, C. Curtice, J. Harrison, M.C. Ferguson, E. Becker, M. DeAngelis, and S.M. Van Parijs. 2015. 4. Biologically important areas for selected cetaceans within U.S. waters – West Coast Region. **Aquat. Mamm.** 41(1):39-53.
- Calambokidis, J., G.H. Steiger, J.C. Cubbage, K.C. Balcomb, C. Ewald, S. Kruse, R. Wells, and R. Sears. 1990. Sightings and movements of blue whales off central California 1986–88 from photo-identification of individuals. **Rep. Int. Whal. Comm. Spec. Iss.** 12:343-348.
- Calambokidis, J., G.H. Steiger, J.M. Straley, L.M. Herman, S. Cerchio, D.R. Salden, J. Urbán R., J.K. Jacobsen, O. von Ziegesar, K.C. Balcomb, C.M. Gabrielle, M.E. Dahlheim, S. Uchida, G. Ellis, Y. Miyamura, P.L. de Guevara, M. Yamaguchi, F. Sato, S.A. Mizroch, L. Schlender, K. Rasmussen, J. Barlow, and T.J. Quinn II. 2001. Movements and population structure of humpback whales in the North Pacific. **Mar. Mamm. Sci.** 17(4):769-794.
- Calambokidis, J., J. Laake, and A. Perez. 2017. Updated analysis of abundance and population structure of seasonal gray whales in the Pacific Northwest, 1996-2015. Paper SC/A17/GW/05 presented to the International Whaling Commission.
- Calambokidis, J., J.D. Darling, V. Deecke, P. Gearin, M. Gosho, W. Megill, C.M. Tombach, D. Goley, C. Toropova, and B. Gisborne. 2002. Abundance, range and movements of a feeding aggregation of gray whales (*Eschrichtius robustus*) from California to southeastern Alaska in 1998. **J. Cetacean Res. Manage.** 4(3):267-276.
- Calambokidis, J., T. Chandler, L. Schlender, G.H. Steiger, and A. Douglas. 2003. Research on humpback and blue whales off California, Oregon, and Washington in 2002. Final Report to Southwest Fisheries Science Center, La Jolla, CA. Cascadia Research, 218½ West Fourth Ave., Olympia, WA, 98501. 47 p.
- Caldwell, J. and W. Dragoset. 2000. A brief overview of seismic air-gun arrays. The Leading Edge, August: 898-902.
- Campana, I., R. Crosti, D. Angeletti, L. Carosso, L. Davis, N. Di-Méglio, A. Moulins, M. Rosso, P. Tepsich, and A. Arcangeli. 2015. Cetacean response to summer maritime traffic in the western Mediterranean Sea. **Mar. Environ. Res.** 109:1-8.
- Carretta, J.V. and K.A. Forney. 1993. Report of the two aerial surveys for marine mammals in California coastal waters using a NOAA DeHavilland Twin Otter aircraft, 9 March–7 April 1991, 8 February–6 April 1992. NOAA Tech. Memo. NMFS-SWFSC-185. Nat. Mar. Fish. Serv., Southwest Fish. Sci. Center, La Jolla, CA. 77 p.
- Carretta, J.V., K.A. Forney, E.M. Oleson, D.W. Weller, A.R. Lang, J. Baker, M.M. Muto, B. Hanson, A.J. Orr, H. Huber, M.S. Lowry, J. Barlow, J.E. Moore, D. Lynch, L. Carswell, and R.L. Brownwell, Jr. 2019a. U.S. Pacific marine mammal stock assessments: 2018.

- NOAA Tech. Memo. NOAA-TM-NMFS-SWFSC-617. Nat. Mar. Fish. Serv., Southwest Fish. Sci. Center, La Jolla, CA. 377 p.
- Carretta, J.V., K.A. Forney, E.M. Oleson, D.W. Weller, A.R. Lang, J. Baker, M.M. Muto, B. Hanson, A.J. Orr, H. Huber, M.S. Lowry, J. Barlow, J.E. Moore, D. Lynch, L. Carswell, and R.L. Brownwell, Jr. 2019b. Draft U.S. Pacific marine mammal stock assessments: 2019. NOAA Tech. Memo.
- Carretta, J.V., K.A. Forney, E.M. Oleson, D.W. Weller, A.R. Lang, J. Baker, M.M. Muto, B. Hanson, A.J. Orr, H. Huber, M.S. Lowry, J. Barlow, J.E. Moore, D. Lynch, L. Carswell, and R.L. Brownwell, Jr. 2017. U.S. Pacific marine mammal stock assessments: 2016. NOAA Tech. Memo. NOAA-TM-NMFS-SWFSC-577. Nat. Mar. Fish. Serv., Southwest Fish. Sci. Center, La Jolla, CA. 407 p.
- Carretta, J.V., K.A. Forney, E.M. Oleson, D.W. Weller, A.R. Lang, J. . Baker, M.M. Muto, B. Hanson, A.J. Orr, H. Huber, M.S. Lowry, J. Barlow, J.E. Moore, D. Lynch, L. Carswell, and R.L. Brownwell Jr. 2018. U.S. Pacific marine mammal stock assessments: 2017. NOAA Tech. Memo. NOAA-TM-NMFS-SWFSC-577. Nat. Mar. Fish. Serv., Southwest Fish. Sci. Center, La Jolla, CA. 161 p.
- Carroll, A.G., R. Przeslawski, A. Duncan, M. Gunning, and B. Bruce. 2017. A critical review of the potential impacts of marine seismic surveys on fish and invertebrates. *Marine Pollution Bulletin* **114**: 9-24.
- Carroll, A.G., R. Przeslawski, A. Duncan, M. Gunning, and B. Bruce. 2017. A critical review of the potential impacts of marine seismic surveys on fish and invertebrates. *Marine Pollution Bulletin* **114**: 9-24.
- Carwardine, M. 1995. Whales, dolphins and porpoises. Dorling Kindersley Publishing, Inc., New York. 256 p.
- Castellote, M., and C. Llorens. 2016. Review of the effects of offshore seismic surveys in cetaceans: Are mass strandings a possibility? *Advances in Experimental Medicine and Biology* **875**:133-143.
- Castellote, M., C.W. Clark, and M.O. Lammers. 2012. Acoustic and behavioural changes by fin whales (*Balaenoptera physalus*) in response to shipping and airgun noise. *Biol. Conserv.* **147**(1):115-122.
- CBC. 2019. In the presence of greatness': Rare sighting of blue whale off B.C. coast. Accessed in October 2019 at <https://ca.news.yahoo.com/presence-greatness-rare-sighting-blue-191227045.html>.
- Center for Whale Research Encounter <https://www.whaleresearch.com/2020-2>
- Center for Whale Research. (2019). *Southern Resident Orcas Need Our Help*. Retrieved from www.whaleresearch.com.
- Cerchio, S., S. Strindberg, T. Collins, C. Bennett, and H. Rosenbaum. 2014. Seismic surveys negatively affect humpback whale singing activity off northern Angola. *PLoS ONE* **9**(3):e86464. doi:10.1371/journal.pone.0086464.
- Chapman, C.J., and A.D. Hawkins. 1969. The importance of sound in fish behaviour in relation to capture by trawls. *FAO Fisheries Reports* **62** (3):717-729.
- Clapham P.J. and J.G. Mead. 1999. *Megaptera novaeangliae*. *Mamm. Spec.* 604:1-9.
- Clapham, P. J., S. Leatherwood, I. Szczepaniak, and R. L. Brownell Jr. 1997. Catches of humpback and other whales from shore stations at Moss Landing and Trinidad, California, 1919-1926. *Marine Mammal Science* **13**:368-394.

- Clapham, P.J. 2009. Humpback whale. p. 582-595 In: W.F. Perrin, B. Würsig, and J.G.M. Thewissen (eds.), *Encyclopedia of marine mammals*, 2nd edit. Academic Press, San Diego, CA. 1316 p.
- Clapham, P.J. and D.K. Mattila. 1990. Humpback whale songs as indicators of migration routes. *Mar. Mamm. Sci.* 6(2):155-160.
- Clark, C.W. and G.C. Gagnon. 2006. Considering the temporal and spatial scales of noise exposures from seismic surveys on baleen whales. Working Pap. SC/58/E9. Int. Whal. Comm., Cambridge, UK. 9 p.
- 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. *Mar. Ecol. Prog. Ser.* 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.
- COASST (Coastal Observation and Seabird Survey Team). 2016. A rare marine mammal washed in. Accessed in March 2017 at <http://blogs.uw.edu/coasst/tag/washington/>.
- Cominelli, S., Devillers, R., Yurk, H., MacGillivray, A., McWhinnie, L. and Canessa, R., 2018. Noise exposure from commercial shipping for the southern resident killer whale population. *Marine pollution bulletin*, 136, pp.177-200.
- Condit, R., J. Reiter, P. A. Morris, R. Berger, S. G. Allen, and B. J. Le Boeuf. (2014). Lifetime survival rates and senescence in northern elephant seals. *Marine Mammal Science*, 30(1), 122–138.
- 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.
- Cook, M.L.H., R. Varela, J. Goldstein, S.D. McCulloch, G.D. Bossart, J.J. Finneran, et al. 2006. Beaked whale auditory evoked potential hearing measurements. *Journal of Comparative Physiology A* 189:489-495.
- COSEWIC (Committee on the Status of Endangered Wildlife in Canada). 2006. COSEWIC status report on common minke whale *Balaenoptera acutorostrata*. Committee on the Status of Wildlife in Canada, Ottawa, ON.
- COSEWIC. 2017. COSEWIC assessment and status report on the grey whale *Eschrichtius robustus*, Northern Pacific Migratory population, Pacific Coast Feeding Group population and the Western Pacific population, in Canada. Committee on the Status of Endangered Wildlife in Canada. Ottawa. xxi + 74 p.
- Cott, P.A., A.N. Popper, D.A. Mann, J.K. Jorgenson, and B.W. Hanna. 2012. Impacts of river-based air gun seismic activity on northern fishes. *Advances in Experimental Medicine and Biology* 730:367-369.
- Cox, T.M., T.J. Ragen, A.J. Read, E. 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.
- Crone, T.J., Tolstoy, M. and Carton, H., 2014. Estimating shallow water sound power levels and mitigation radii for the R/VM arcus G. L angseth using an 8 km long MCS streamer. *Geochemistry, Geophysics, Geosystems*, 15(10), pp.3793-3807.

- Culloch, R.M., P. Anderwald, A. Brandecker, D. Haberlin, B. McGovern, R. Pinfield, F. Visser, M. Jessopp, and M. Cronin. 2016. Effect of construction-related activities and vessel traffic on marine mammals. *Mar. Ecol. Prog. Ser.* 549:231-242.
- D'Amico, A., R.C. Gisiner, D.R. Ketten, J.A. Hammock, C. Johnson, P.L. Tyack, and J. Mead. 2009. Beaked whale strandings and naval exercises. *Aquatic Mammals* **35** (4):452-472.
- Dahlheim, M. and M. Castellote. 2016. Changes in the acoustic behavior of gray whales *Eschrichtius robustus* in response to noise. *Endang. Species Res.* 31:227-242.
- Dahlheim, M.E., A. Schulman-Janiger, N. Black, R. Ternullo, D. Ellifrit, and K.C. Balcomb. 2008. Eastern temperate North Pacific offshore killer whales (*Orcinus orca*): Occurrence, movements, and insights into feeding ecology. *Mar. Mamm. Sci.* 24(3):719-729.
- Dalen, J., and G.M. Knutsen. 1987. Scaring effects in fish and harmful effects on eggs, larvae and fry by offshore seismic explorations. Pages 93-102 in H. M. Merklinger, ed. *Progress in Underwater Acoustics*. Plenum Press, New York City.
- Darling, J.D., K.E. Keogh, and T.E. Steeves. 1998. Gray whale (*Eschrichtius robustus*) habitat utilization and prey species off Vancouver Island, B.C. **Mar. Mammal Sci.** 14(4):692-720.
- Davis, R.W., G.S. Fargion, N. May, T.D. Leming, M. Baumgartner, W.E. Evans, L.J. Hansen, and K. Mullin. 1998. Physical habitat of cetaceans along the continental slope in the north-central and western Gulf of Mexico. *Mar. Mamm. Sci.* 14(3):490-507.
- DeLong, R. (2018a). *Draft Pinniped Write-Ups for the Navy's Marine Species Density Database Technical Report-California Sea Lion*. Washington, DC: U.S. Department of the Navy.
- DeLong, R. L., S. J. Jeffries, S. R. Melin, A. J. Orr, and J. L. Laake. (2017). *Satellite Tag Tracking and Behavioral Monitoring of Male California Sea Lions in the Pacific Northwest to Assess Haul-out Behavior on Puget Sound Navy Facilities and Foraging Behavior in Navy Testing and Training Areas*. Seattle, WA: National Marine Fisheries Service and the Washington Department of Fish and Wildlife.
- DeLong, R., and S. Jeffries (2017). [Personal communication on pinniped abundance and distribution in the Pacific Northwest in support of the NWTT EIS/OEIS (R. DeLong {National Marine Fisheries Service}, S. Jeffries {Washington Department of Fish and Wildlife}, A. Bella-Holden {U.S. Navy Command Pacific Fleet}, S. Sleeman {U.S. Navy NAVFAC Northwest}, C. Erkelens {Mantech}, and M. Zickel {Mantech})].
- Demarchi, M.W. and M.D. Bentley. 2004. Effects of natural and human-caused disturbances on marine birds and pinnipeds at Race Rocks, British Columbia. LGL Report EA1569. Prepared for Department of National Defence, Canadian Forces Base Esquimalt and Public Works and Government Services Canada. 103 p.
- DeRuiter, S.L., P.L. Tyack, Y.-T. Lin, A.E. Newhall, J.F. Lynch, and P.J.O. Miller. 2006. Modeling acoustic propagation of airgun array pulses recorded on tagged sperm whales (*Physeter macrocephalus*). *Journal of the Acoustical Society of America* **120** (6):4100-4114.
- DFO. 2013. Recovery strategy for the North Pacific humpback whale (*Megaptera novaeangliae*) in Canada. Species at Risk Act Recovery Strategy Series. Fisheries and Oceans Canada, Ottawa x + 67 p.
- DFO. 2018. Questions and answers: critical habitat for Northern and Southern Resident Killer Whales in Canada. Accessed September 2019 at <https://www.pac.dfo-mpo.gc.ca/consultation/sara-lep/killerwhales-epaulards/faq-eng.html>.

- Di Iorio, L. and C.W. Clark. 2010. Exposure to seismic survey alters blue whale acoustic communication. *Biol. Lett.* 6(1):51-54.
- Diebold, J.B., M. Tolstoy, L. Doermann, S.L. Nooner, S.C. Webb, and T.J. Crone. 2010. R/V Marcus G. Langseth seismic source: modeling and calibration. *Geochem. Geophys. Geosyst.* 11(12):Q12012. doi:10.1029/2010GC003126. 20 p.
- Dohl, T.P., K.S. Norris, R.C. Guess, J.D. Bryant, and M.W. Honig. 1980. Summary of marine mammal and seabird surveys of the Southern California Bight area, 1975–1978. Part II. Cetaceans of the Southern California Bight. Final Report to the Bureau of Land Management, NTIS Rep. No. PB81248189. 414 p.
- Dohl, T.P., R.C. Guess, M.L. Duman, and R.C. Helm. 1983. Cetaceans of central and northern California, 1980–1983: Status, abundance, and distribution. Final Report to the Minerals Management Service, Contract No. 14-12-0001-29090. 284 p.
- Donovan, G.P. 1991. A review of IWC stock boundaries. **Rep. Int. Whal. Comm. Spec. Iss.** 13:39-63.
- Dorsey, E.M., S.J. Stern, A.R. Hoelzel, and J. Jacobsen. 1990. Minke whale (*Balaenoptera acutorostrata*) from the west coast of North America: individual recognition and small-scale site fidelity. **Rept. Int. Whal. Comm. Spec. Iss.** 12:357-368.
- Dragoset, W.H. 1990. Airgun array specs: A tutorial. *Geophysics: The Leading Edge of Exploration.* January: 1-9.
- Duffield, D.A., S.H. Ridgway, and L.H. Cornell. 1983. Hematology distinguishes coastal and offshore forms of dolphins (Tursiops). *Can. J. Zool.* 61(4):930-933.
- Dunham, J.S. and D.A. Duffus. 2001. Foraging patterns of gray whales in central Clayoquot Sound, British Columbia, Canada. **Mar. Ecol. Prog. Ser.** 223:299-310.
- Dunham, J.S. and D.A. Duffus. 2002. Diet of gray whales (*Eschrichtius robustus*) in Clayoquot Sound, British Columbia, Canada. **Mar. Mammal Sci.** 18(2):419-427.
- Dunlop, R.A. 2015. The effect of vessel noise on humpback whale, *Megaptera novaeangliae*, communication behaviour. *Animal Behav.* 111:13-21.
- Dyndo, M., D.M. Wisniewska, L. Rojano-Doñate, and P.T. Madsen. 2015. Harbour porpoises react to low levels of high frequency vessel noise. *Sci. Rep.* 5:11083. <http://dx.doi.org/doi:10.1038/srep11083>.
- Edwards, E.F., C. Hall, T.J. Moore, C. Sheredy, and J.V. Redfern. 2015. Global distribution of fin whales *Balaenoptera physalus* in the post-whaling era (1980–2012). *Mamm. Rev.* 45(4):197-214.
- 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. *Conserv. Biol.* 26(1):21-28.
- Emmons, C. (2019, 7/29/2019). [Re: SRKW detections Westport-Col River 6yrs out of 9 during June-Dec].
- Engås, A., and S. Løkkeborg. 2002. Effects of seismic shooting and vessel-generated noise on fish behaviour and catch rates. *Bioacoustics* 12:313-315.
- Engås, A., S. Løkkeborg, E. Ona, and A.V. Soldal. 1996. Effects of seismic shooting on local abundance and catch rates of cod (*Gadus morhua*) and haddock (*Melanogrammus aeglefinus*). *Canadian Journal of Fisheries and Aquatic Sciences* 53:2238-2249.
- 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., 2002. Underwater noise of whale-watching boats and potential effects on killer whales (*Orcinus orca*), based on an acoustic impact model. *Marine mammal science*, 18(2), pp.394-418.
- Erbe, C., C. Reichmuth, K. Cunningham, K. Lucke, and R. Dooling. 2016. Communication masking in marine mammals: a review and research strategy. *Mar. Poll. Bull.* 103:15-38.
- 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.
- Evans, W.E. 1994. Common dolphin, white-bellied porpoise *Delphinus delphis* Linnaeus, 1758. p. 191-224 In: S.H. Ridgway and R. Harrison (eds.), *Handbook of marine mammals*, Vol. 5: The first book of dolphins. Academic Press, San Diego, CA. 416 p.
- Fair, Patricia & Becker, Paul. (2000). Review of stress in marine mammals. *Journal of Aquatic Ecosystem Stress and Recovery*. 7. 335-354. 10.1023/A:1009968113079.
- Ferguson, M. C., Curtice, C., Harrison, J., & Van Parijs, S. M. (2015). 1. Biologically Important Areas for cetaceans within U.S. waters – Overview and rationale. In S. M. Van Parijs, C. Curtice, & M. C. Ferguson (Eds.), *Biologically Important Areas for cetaceans within U.S. waters* (pp. 2-16). *Aquatic Mammals* (Special Issue), 41(1). 128 pp.
- Ferguson, M. C., J. Barlow, P. Feidler, S. B. Reilly, and T. Gerrodette. (2006). Spatial models of delphinid (family Delphinidae) encounter rate and group size in the eastern tropical Pacific Ocean. *Ecological Modelling*, 193, 645–662.
- 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.
- Fields, D.M., Handegard, N.O., Dalen, J., Eichner, C., Malde, K., Karlsen, Ø., Skiftesvik, A.B., Durif, C.M. and Browman, H.I., 2019. Airgun blasts used in marine seismic surveys have limited effects on mortality, and no sublethal effects on behaviour or gene expression, in the copepod *Calanus finmarchicus*. *ICES Journal of Marine Science*, 76(7), pp.2033-2044.
- 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 (3) 1702.
- Finneran, J.J. and A.K. Jenkins. 2012. Criteria and thresholds for U.S. Navy acoustic and explosive effects analysis. Technical Report, Space and Naval Warfare Systems Center Pacific, U.S. Navy: 64.
- Finneran, J.J. and B.K. Branstetter. 2013. Effects of noise on sound perception in marine mammals. p. 273-308 In: H. Brumm (ed.), *Animal communication and noise*. Springer Berlin, Heidelberg, Germany. 453 p.
- Finneran, J.J., C.E. Schlundt, B.K. Branstetter, J.S. Trickey, V. Bowman, and K. Jenkins. 2015. Effects of multiple impulses from a seismic air gun on bottlenose dolphin hearing and behavior. *J. Acoust. Soc. Am.* 137(4):1634-1646.
- Finneran, J.J., D.S. Houser, B. Mase-Guthrie, R.Y. Ewing, and R.G. Lingenfelter. 2009. Auditory evoked potentials in a stranded Gervais' beaked whale (*Mesoplodon europaeus*). *Journal of the Acoustical Society of America* 126 (1):484-490.
- Fisher, H.D. 1952. The status of the harbour seal in British Columbia, with particular reference to the Skeena River. *Fish. Res. Board Can. Bull.* 93. 58 p.
- Foote, A.D., R.W. Osborne, A.R. Hoelzel Environment: whale-call response to masking boat noise *Nature*, 428 (2004) 910–910

- Ford, J.K.B. 2014. Marine mammals of British Columbia. Royal BC Museum Handbook, Royal B.C. Museum, Victoria, British Columbia. 460 p.
- Ford, J.K.B. and G.M. Ellis. 2006. Selective foraging by fish-eating killer whales *Orcinus orca* in British Columbia. *Marine Ecology Progress Series* 316: 185-199.
- Ford, J.K.B. and R.R. Reeves. 2008. Fight or flight: Antipredator strategies of baleen whales. *Mammal Review* 38 (1):50-86.
- Ford, J.K.B., B. Koot, S. Vagle, N. Hall-Patch, and G. Kamitakahara. 2010b. Passive acoustic monitoring of large whales in offshore waters of British Columbia. *Canadian Technical Report of Fisheries and Aquatic Sciences* 2898. 30 p.
- Ford, J.K.B., R.M. Abernethy, A.V. Phillips, J. Calambokidis, G. M. Ellis, and L.M. Nichol. 2010a. Distribution and relative abundance of cetaceans in Western Canadian Waters from ship surveys, 2002–2008. *Canadian Technical Report of Fisheries and Aquatic Sciences* 2913. 51 p.
- Forney, K. A., E. A. Becker, D. G. Foley, J. Barlow, and E. M. Oleson. (2015). Habitat-based models of cetacean density and distribution in the central North Pacific. *Endangered Species Research*, 27, 1–20.
- Forney, K. A., M. C. Ferguson, E. A. Becker, P. C. Fiedler, J. V. Redfern, J. Barlow, I. L. Vilchis, and L. T. Ballance. (2012). Habitat-based spatial models of cetacean density in the eastern Pacific Ocean. *Endangered Species Research*, 16(2), 113–133.
- Forney, K.A. 2007. Preliminary estimates of cetacean abundance along the U.S. west coast and within four National Marine Sanctuaries during 2005. NOAA Tech. Memo. NOAA-TM-NMFS-SWFSC-406. Nat. Mar. Fish. Serv., Southwest Fish. Sci. Center, La Jolla, CA.
- Forney, K.A., and J. Barlow. 1998. Seasonal patterns in the abundance and distribution of California cetaceans, 1991–1992. *Mar. Mamm. Sci.* 14 (3):460-489.
- Forney, K.A., B.L. Southall, E. Slooten, S. Dawson, A.J. Read, R.W. Baird, and R.L. Brownell Jr. 2017. Nowhere to go: Noise impact assessments for marine mammal populations with high site fidelity. *Endangered Species Research* 32:391-413.
- Forney, K.A., J. Barlow, and J.V. Carretta. 1995. The abundance of cetaceans in California waters. Part II: aerial surveys in winter and spring of 1991 and 1992. *Fish. Bull.* 93:15-26.
- Forney, K.A., J.V. Carretta, and S.R. Benson. 2014. Preliminary estimates of harbor porpoise abundance in Pacific coast waters of California, Oregon, and Washington, 2007-2012. NOAA Technical Memorandum NMFS NOAA-TM-NMFS-SWFSC-537. U.S. Department of Commerce, National Oceanic and Atmospheric Administration and National Marine Fisheries Service. 21 p.
- Francis, C & Barber, J. (2013). A framework for understanding noise impacts on wildlife: An urgent conservation priority. *Frontiers in Ecology and the Environment*. 11. 10.1890/120183.
- 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.
- Frantzis, A. 1998. Does acoustic testing strand whales? *Nature* 392 (6671):29.
- Frantzis, A., J.C. Goold, E.K. Skarsoulis, M.I. Taroudakis, and V. Kandia. 2002. Clicks from Cuvier's beaked whales, *Ziphius cavirostris* (L). *Journal of the Acoustical Society of America* 112 (1):34-37.

- Frasier, T.R., S.M. Koroscil, B.N. White, and J.D. Darling. 2011. Assessment of population substructure in relation to summer feeding ground use in the eastern North Pacific gray whale. **Endang. Species Res.** 14(1):39-48.
- Frid, A., and L.M. Dill. 2002. Human-caused disturbance stimuli as a form of predation risk. *Conservation Ecology* 6 (1):11.
- Fristrup, K.M., Hatch, L.T. & Clark, C.W. 2003. Variation in humpback whale (*Megaptera novaengliae*) song length in relation to low-frequency sound broadcasts. *Journal of the Acoustical Society of America*, 113, 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.
- Fritz, L., K. Sweeney, R. Towell, and T. Gelatt. (2016). *Aerial and Ship-Based Surveys of Stellar Sea Lions (*Eumetopias jubatus*) Conducted in Alaska in June–July 2013 through 2015, and an Update on the Status and Trend of the Western Distinct Population Segment in Alaska* (National Oceanic and Atmospheric Administration Technical Memorandum NMFS-AFSC-321). Seattle, WA: Alaska Fisheries Science Center.
- Gailey, G., B. Würsig, and T.L. McDonald. 2007. Abundance, behavior, and movement patterns of western gray whales in relation to a 3-D seismic survey, northeast Sakhalin Island, Russia. *Environ. Monit. Assess.* 134(1-3):75-91.
- Gailey, G., O. Sychenko, T. McDonald, R. Racca, A. Rutenko, and K. Bröker. 2016. Behavioural responses of western gray whales to a 4-D seismic survey off northeastern Sakhalin Island, Russia. *Endang. Species Res.* 30:53-71.
- Gallo-Reynoso J.P., and J.L. Solórzano-Velasco JL. 1991. Two new sightings of California sea lions on the southern coast of México. *Mar. Mamm. Sci.* 7:96.
- Gallo-Reynoso, J. P. (1994). Factors affecting the population status of Guadalupe fur seal, *Arctocephalus townsendii* (Merriam, 1897), at Isla de Guadalupe, Baja California, Mexico. (Ph.D. in Biology doctoral dissertation). University of California, Santa Cruz.
- Gallo-Reynoso, J. P., A. L. Figueroa-Carranza, and J. B. Le Boeuf. (2008). Foraging behavior of lactating Guadalupe fur seal females. *Avances en el Estudio de los Mamíferos de México* (Publicaciones Especiales ed., Vol. III, pp. 595–614). La Paz, Mexico: Asociación Mexicana de Mastozoología.
- Gambell, R. 1985a. Sei whale *Balaenoptera borealis* Lesson, 1828. p. 155-170 In: S.H. Ridgway and R. Harrison (eds.), *Handbook of marine mammals*, Vol. 3: The sirenians and baleen whales. Academic Press, London, UK. 362 p.
- Gambell, R. 1985b. Fin whale *Balaenoptera physalus* (Linnaeus, 1758). p. 171-192 In: S.H. Ridgway and R. Harrison (eds.), *Handbook of marine mammals*, Vol. 3: The sirenians and baleen whales. Academic Press, London, UK. 362 p.
- Gannier, A. 2000. Distribution of cetaceans off the Society Islands (French Polynesia) as obtained from dedicated surveys. *Aquat. Mamm.* 26(2):111-126.
- Gedamke, J. 2011. Ocean basin scale loss of whale communication space: potential impacts of a distant seismic survey. p. 105-106 In: *Abstr. 19th Bienn. Conf. Biol. Mar. Mamm.*, 27 Nov.–2 Dec. 2011, Tampa, FL. 344 p.
- Gentry, R.L. 1981. Northern fur seal—*Callorhinus ursinus*. p. 119-141 In: S.H. Ridgway and R.J. Harrison (eds.), *Handbook of marine mammals*, Vol. 1: The walrus, sea lions, and sea otter. Academic Press, London, UK. 235 p.

- Gentry, R.L. 2009. Northern fur seal, *Callorhinus ursinus*. p. 788-791 In: W.F. Perrin, B. Würsig, and J.G.M. Thewissen (eds.), *Encyclopedia of marine mammals*, 2nd edit. Academic Press, San Diego, CA. 1316 p.
- 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.
- Gervaise, C., N. Roy, Y. Simard, B. Kinda, and N. Menard. 2012. Shipping noise in whale habitat: characteristics, sources, budget, and impact on belugas in Saguenay-St. Lawrence Marine Park hub. *J. Acoust. Soc. Am.* 132(1):76-89.
- Giles, D.A. and R. Cendak. 2010. An Assessment of Vessel Effects on the Cohesion State of Southern Resident Killer Whale groups, and Measuring Vessel Compliance with Boating Guidelines. Contract AB133F-07-SE-3026 report to the National Marine Fisheries Service. 56 pp.
- 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.
- 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., 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. and Kyburg, C., 2013. Blue whales respond to simulated mid-frequency military sonar. *Proceedings of the Royal Society B: Biological Sciences*, 280(1765), p.20130657.
- Goold 1996. Acoustic Assessment Of Populations Of Common Dolphin *Delphinus Delphis* In Conjunction With Seismic Surveying. *J. mar. biol. Ass. U.K.* (1996), 76, 811-820.
- Gordon, J., D. Gillespie, J. Potter, A. Frantzis, M.P. Simmonds, R. Swift, and D. Thompson. 2004. 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.
- Green, G.A., J.J. Brueggeman, R.A. Grotefendt, C.E. Bowlby, M.L. Bonnell, and K.C. Balcomb, III. 1992. Cetacean distribution and abundance off Oregon and Washington, 1989–1990. Chapter 1 In: J.J. Brueggeman (ed.), *Oregon and Washington marine mammal and seabird surveys*. Minerals Manage. Serv. Contract Rep. 14-12-0001-30426.
- Green, G.A., R.A. Grotefendt, M.A. Smultea, C.E. Bowlby, and R.A. Rowlett. 1993. Delphinid aerial surveys in Oregon and Washington offshore waters. Rep. from Ebasco Environmental, Bellevue, WA, for Nat. Mar.
- Gregr, E.J. and A.W. Trites. 2001. Predictions of critical habitat of five whale species in the waters of coastal British Columbia. *Can. J. Fish. Aquat. Sci.* 58(7):1265-1285.
- Gregr, E.J., J. Calambokidis, L. Convey, J.K.B. Ford, R.I. Perry, L. Spaven, and M. Zacharias. 2006. Recovery Strategy for Blue, Fin, and Sei Whales (*Balaenoptera musculus*, *B. physalus*, and *B. borealis*) in Pacific Canadian Waters. In *Species at Risk Act Recovery Strategy Series*. Vancouver: Fisheries and Oceans Canada. vii + 53 p.

- Gregg, E.J., L. Nichol, J.K.B. Ford, G. Ellis, and A.W. Trites. 2000. Migration and population structure of northeastern Pacific whales off coastal British Columbia: an analysis of commercial whaling records from 1908-1967. *Mar. Mamm. Sci.* 16(4):699-727.
- Gridley, T., S.H. Elwen, G. Rashley, A.B. Krakauer, and J. Heiler. 2016. Bottlenose dolphins change their whistling characteristics in relation to vessel presence, surface behavior and group composition. *Proceedings of Meetings on Acoustics 4ENAL 27(1):010030*. <http://dx.doi.org/doi:10.1121/2.0000312>.
- Guan, S., J.F. Vignola, J.A. Judge, D. Turo, and T.J. Ryan. 2015. Inter-pulse noise field during an arctic shallow-water seismic survey. *J. Acoust. Soc. Am.* 137(4):2212.
- Guerra, M., A.M. Thode, S.B. Blackwell, and M. Macrander. 2011. Quantifying seismic survey reverberation off the Alaskan North Slope. *J. Acoust. Soc. Am.* 130(5):3046-3058.
- Hain, J.H.W., W.A.M. Hyman, R.D. Kenney, and H.E. Winn. 1985. The role of cetaceans in the shelf-edge region of the U.S. **Mar. Fish. Rev.** 47(1):13-17.
- Haley, B. and D. Ireland. 2006. Marine Mammal Monitoring during University of Alaska Fairbanks Marine Geophysical Survey across the Arctic Ocean, August–September 2005. LGL Report TA4122-3. Prepared by LGL Ltd. environmental research associates, King City, ONT, for University of Alaska-Fairbanks, Fairbanks, AK, and NMFS, Silver Spring, MD.
- Haley, B., and W.R. Koski. 2004. Marine Mammal Monitoring during Lamont-Doherty Earth Observatory's ADWBC Seismic Program in the Northwest Atlantic Ocean, July–August 2004. LGL Report TA2822-27. Prepared by LGL Ltd. environmental research associates, King City, ONT, for Lamont-Doherty Earth Observatory, Columbia University, Palisades, NY, and NMFS, Silver Spring, MD.
- Hall, J. 1979. A survey of cetaceans of Prince William Sound and adjacent waters: their numbers and seasonal movements. Unpubl. Rep. to Alaska Outer Continental Shelf Environmental Assessment Programs. NOAA OSCEAP Juneau Project Office, Juneau, AK.
- Halvorsen, M.B., B.M. Casper, C.M. Woodley, T.J. Carlson, and A.N. Popper. 2012. Threshold for onset of injury in chinook salmon from exposure to impulsive pile driving sounds. *PLoS ONE* 7 (6).
- Hamilton, T. A., J. V. Redfern, J. Barlow, L. T. Ballance, T. Gerrodette, R. S. Holt, K. A. Forney, and B. L. Taylor. (2009). Atlas of Cetacean Sightings for Southwest Fisheries Science Center Cetacean and Ecosystem Surveys: 1986–2005 (National Oceanic and Atmospheric Administration Technical Memorandum NMFS-SWFSC-440). La Jolla, CA: Southwest Fisheries Science Center.
- Hansen, L.J., K.D. Mullin, and C.L. Roden. 1994. Preliminary estimates of cetacean abundance in the northern Gulf of Mexico, and selected species in the U.S. Atlantic exclusive economic zone from vessel surveys. *Miami Lab Contrib. No. MIA-93/94-58*. *Nat. Mar. Fish. Serv., Southeast Fish. Sci. Center, Miami, FL.* 14 p.
- Hanson, M.B., E.J. Ward, C.K. Emmons, M.M. Holt, and D.M. Holzer. 2017. Assessing the movements and occurrence of Southern Resident Killer Whales relative to the U.S. Navy's Northwest Training Range Complex in the Pacific Northwest. Prepared for: U.S. Navy, U.S. Pacific Fleet, Pearl Harbor, HI. Prepared by: National Oceanic and Atmospheric Administration, Northwest Fisheries Science Center under MIPR N00070-15-MP-4C363. 30 June 2017. 23p.

- Hanson, M. B., E. J. Ward, C. K. Emmons, and M. M. Holt. (2018). Modeling the occurrence of endangered killer whales near a U.S. Navy Training Range in Washington State using satellite tag locations to improve acoustic detection data. Seattle, WA: Northwest Fisheries Science Center.
- 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.
- Hartman, K.L. 2018. Risso's dolphin *Grampus griseus*. p. 824-827 In: B. Würsig, J.G.M. Thewissen, and K.M. Kovacs (eds.), *Encyclopedia of Marine Mammals*, 3rd Edition. Academic Press/Elsevier, San Diego, CA. 1157 p.
- Harvey, G.K.A, T.A. Nelson, C.H. Fox, and P.C. Paquet. 2017. Quantifying marine mammal hotspots in British Columbia, Canada. *Ecosphere* 8(7):e01884.
- Harvey, J. T., R. F. Brown, and B. R. Mate. (1990). Abundance and Distribution of Harbor Seals (*Phoca vitulina*) in Oregon, 1975–1983. *Northwestern Naturalist*, 71(3), 65–71.
- Hassel, A., T. Knutsen, J. Dalen, K. Skaar, S. Lokkeborg, O. Misund, et al. 2004. Influence of seismic shooting on the lesser sandeel (*Ammodytes marinus*). *ICES Journal of Marine Science* 61 (7):1165-1173.
- Hastings, M.C., and A.N. Popper. 2005. Effects of sound on fish. Technical report for Jones and Stokes to California Department of Transportation.
- Hatch, L.T., C.W. Clark, S.M. Van Parijs, A.S. Frankel, and D.W. Ponirakis. 2012. Quantifying loss of acoustic communication space for right whales in and around a U.S. National Marine Sanctuary. *Conserv. Biol.* 26(6):983-994.
- Hauser, D., M. Holst, and V.D. Moulton. 2008. Marine Mammal and Sea Turtle Monitoring during Lamont-Doherty Earth Observatory's Marine Seismic Program in the Eastern Tropical Pacific, April–August 2008. LGL Report TA4656/7-1. Prepared by LGL Ltd. environmental research associates, St. John's, NF and King City, ONT, for Lamont-Doherty Earth Observatory, Columbia University, Palisades, NY, and NMFS, Silver Spring, MD.
- Hauser, D.D.W. and M. Holst. 2009. Marine mammal monitoring during Lamont-Doherty Earth Observatory's marine seismic program in the Gulf of Alaska, September-October 2008. LGL Rep. TA4412-3. Rep. from LGL Ltd., King City, Ont., and St. John's, Nfld, for Lamont-Doherty Earth Observatory of Columbia Univ., Palisades, NY, and Nat. Mar. Fish. Serv., Silver Spring, MD. 78 p.
- Hawkins, A.D., A.E. Pembroke, and A.N. Popper. 2014. Information gaps in understanding the effects of noise on fishes and invertebrates. *Reviews in Fish Biology and Fisheries*: 1-26.
- Hazen, E.L., D.M. Palacios, K.A. Forney, E.A. Howell, E. Becker, A.L. Hoover, L. Irvine, M. DeAngelis, S.J. Bograd, B.R. Mate, and H. Bailey. 2017. WhaleWatch: a dynamic management tool for predicting blue whale density in the California Current. *J. Appl. Ecol.* 14 p. <http://dx.doi.org/doi:10.1111/1365-2664.12820>.
- Hazen, E.L., D.M. Palacios, K.A. Forney, E.A. Howell, E. Becker, A.L. Hoover, L. Irvine, M. DeAngelis, S.J. Bograd, B.R. Mate, and H. Bailey. 2017. WhaleWatch: a dynamic management tool for predicting blue whale density in the California Current. *J. Appl. Ecol.* 14 p. <http://dx.doi.org/doi:10.1111/1365-2664.12820>.

- Heiler, J., S.H. Elwen, H.J. Kriesell, and T. Gridley. 2016. Changes in bottlenose dolphin whistle parameters related to vessel presence, surface behaviour and group composition. *Animal Behav.* 117:167-177.
- Hermannsen, L., J. Tougaard, K. Beedholm, J. Nabe-Nielsen, and P.T. Madsen. 2014. High frequency components of ship noise in shallow water with a discussion of implications for harbor porpoises (*Phocoena phocoena*). *J. Acoust. Soc. Am.* 136(4):1640-1653.
- Hermannsen, L., J. Tougaard, K. Beedholm, J. Nabe-Nielsen, and P.T. Madsen. 2015. Characteristics and propagation of airgun pulses in shallow water with implications for effects on small marine mammals. *PLoS ONE* 10 (7):e0133436.
- Heyning, J.E. 1989. Cuvier's beaked whale *Ziphius cavirostris* G. Cuvier, 1823. p. 289-308 In: S.H. Ridgway and R. Harrison (eds.), *Handbook of marine mammals*, Vol. 4: River dolphins and the larger toothed whales. Academic Press, San Diego, CA. 444 p.
- Heyning, J.E. and M.E. Dahlheim. 1988. *Orcinus orca*. *Mammal. Spec.* 304:1-9.
- Heyning, J.E. and W.F. Perrin. 1994. Evidence for two species of common dolphins (Genus *Delphinus*) from the eastern North Pacific. *Contr. Nat. Hist. Mus. L.A. County*, No. 442.
- Hildebrand, J. 2004. Impacts of anthropogenic sound on cetaceans. IWC/SC/56/E13, International Whaling Commission Scientific Committee: 32.
- Hildebrand, J.A. 2009. Anthropogenic and natural sources of ambient noise in the ocean. *Marine Ecology-Progress Series.* 395:5-20.
- Hill, P.S. and J. Barlow. 1992. Report of a marine mammal survey of the California coast aboard the research vessel McArthur July 28–November 5, 1991. NOAA Tech. Memo. NMFS-SWFSC-169. Nat. Mar. Fish. Serv., Southwest Fish. Sci. Center, La Jolla, CA. 103 p.
- Hindell, M.A. 2009. Elephant seals. p. 990-992 In: W.F. Perrin, B. Würsig, and J.G.M. Thewissen (eds.), *Encyclopedia of marine mammals*, 2nd edit. Academic Press, New York, NY. 1316 p.
- Hodder J., R.F. Brown, and C. Czesla. 1998. The northern elephant seal in Oregon: a pupping range extension and onshore occurrence. *Mar. Mamm. Sci.* 14:873-881.
- Hoelzel, A.R., C.W. Potter, and P.B. Best. 1998. Genetic differentiation between parapatric 'nearshore' and 'offshore' populations of the bottlenose dolphin. *Proc. Roy. Soc. Lond. B* 265:1177-1183.
- 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.
- Holst, M. 2004. Marine mammal monitoring during Lamont-Doherty Earth Observatory's TAG seismic study in the Mid-Atlantic Ocean, October–November 2003. LGL Report TA2822-21. Prepared by LGL Ltd. environmental research associates, King City, ONT, for Lamont-Doherty Earth Observatory, Columbia University, Palisades, NY, and NMFS, Silver Spring, MD.
- Holst, M. 2017. Marine mammal and sea turtle sightings during a survey of the Endeavour Segment of the Juan de Fuca Ridge, British Columbia. *Can. Field-Nat.* 131(2):120-124.
- Holst, M. and M.A. Smultea. 2008. Marine Mammal and Sea Turtle Monitoring during Lamont-Doherty Earth Observatory's Marine Seismic Program off Central America, February–April 2006. LGL Report TA4342-3. Prepared by LGL Ltd. environmental research associates, King City, ONT, for Lamont-Doherty Earth Observatory, Columbia University, Palisades, NY, and NMFS, Silver Spring, MD.

- Holst, M., M.A. Smultea, W.R. Koski, and B. Haley. 2005a. Marine Mammal and Sea Turtle Monitoring during Lamont-Doherty Earth Observatory's Marine Seismic Program off the Northern Yucatán Peninsula in the Southern Gulf of Mexico, January–February 2005. LGL Report TA2822-31. Prepared by LGL Ltd. environmental research associates, King City, ONT, for Lamont-Doherty Earth Observatory, Columbia University, Palisades, NY, and NMFS, Silver Spring, MD. June.
- Holt M.M., D.P. Noren, V. Veirs, C.K. Emmons, S. Veirs. 2009. Speaking up: Killer whales (*Orcinus orca*) increase their call amplitude in response to vessel noise *J. Acoust. Soc. Am.*, 125 (2009), pp. EL27-EL32
- Holt, M. M., Veirs, V. A. L., & Veirs, S. (2008). Noise effects on the call amplitude of southern resident killer whales (*Orcinus orca*). *Bioacoustics*, 17(1-3), 164-166.
- Holt, M.M., D.P. Noren, R.C. Dunkin, and T.M. Williams. 2015. Vocal performance affects metabolic rate in dolphins: implications for animals communicating in noisy environments. *J. Exp. Biol.* 218(11):1647-1654.
<http://dx.doi.org/doi:10.1242/jeb.122424>.
- 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.
- Horwood, J. 1987. The sei whale: population biology, ecology, and management. Croom Helm, Beckenham, Kent, UK. 375 p.
- Houghton, J., M.M. Holt, D.A. Giles, M.B. Hanson, C.K. Emmons, J.T. Hogan, T.A. Branch, and G.R. VanBlaricom. 2015. The relationship between vessel traffic and noise levels received by killer whales (*Orcinus orca*). *PLoS ONE* 10(12): e0140119.
<http://dx.doi.org/doi:10.1371/journal.pone.0140119>.
- Houston, J. 1990a. Status of Hubbs' beaked whale, *Mesoplodon carlhubbsi*, in Canada. *Can. Field-Nat.* 104(1):121-124.
- Houston, J. 1990b. Status of Stejneger's beaked whale, *Mesoplodon stejnegeri*, in Canada. *Can. Field-Nat.* 104(1):131-134.
<http://www.cascadiaresearch.org/files/publications/Rep-Mn-Bm-2011-Rev.pdf>.
- Hu, M., H.Y. Yan, W.S. Chung, J.C. Shiao, and P.P. Hwang. 2009. Acoustical evoked potentials in two cephalopods inferred using the auditory brainstem response (ABR) approach. *Comparative Biochemistry and Physiology Part A: Molecular and Integrative Physiology* 153:278-283.
- Huber H.R. 1991. Changes in the distribution of California sea lions north of the breeding rookeries during the 1982–83 El Niño. p. 129-137 In: F. Trillmich and K.A. Ono (eds.), *Pinnipeds and El Niño/responses to environmental stress*. Springer-Verlag, Berlin. 293 p.
- Huber, H.R., A.C. Rovetta, L.A. Fry, and S. Johnston. 1991. Age-specific natality of northern elephant seals at the Farallon Islands, California. *J. Mamm.* 72(3):525-534.
- ICES (International Council for the Exploration of the Sea). 2005. Report of the ad-hoc group on the impacts of sonar on cetaceans and fish (AGISC). CM 2006/ACE, International Council for the Exploration of the Sea: 61.
- Irvine, L.M., B.R. Mate, M.H. Winsor, D.M. Palacios, S.J. Bograd, D.P. Costa, and H. Bailey. 2014. Spatial and temporal occurrence of blue whales off the US West Coast, with implications for management. *PLoS One* 9(7):e102959.
- 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. 2012. Report of the Scientific Committee. **J. Cetac. Res. Manage.** (Suppl.) 13.
- Jannot, J., Heery, E., Bellman, M.A., and J. Majewski. 2011. Estimated bycatch of marine mammals, seabirds, and sea turtles in the U.S. west coast commercial groundfish fishery, 2002–2009. West coast groundfish observer program. Nat. Mar. Fish. Serv., Northwest Fish. Sci. Center, Seattle, WA. 104 p.
- Jaquet, N. and H. Whitehead. 1996. Scale-dependent correlation of sperm whale distribution with environmental features and productivity in the South Pacific. *Mar. Ecol. Prog. Ser.* 135(1-3):1-9.
- Jefferson, T.A. 1990. Status of Dall's porpoise, *Phocoenoides dalli*, in Canada. *Can. Field-Nat.* 104(1):112-116.
- Jefferson, T.A., M.A. Webber, and R.L. Pitman. 2015. Marine mammals of the world: a comprehensive guide to their identification, 2nd edit. Academic Press, London, UK. 608 p.
- Jefferson, T.A., M.A. Webber, and R.L. Pitman. 2015. Marine mammals of the world: a comprehensive guide to their identification, 2nd edit. Academic Press, London, U.K. 608 p.
- Jeffries, S., H. Huber, J. Calambokidis, and J. Laake. (2003). Trends and Status of Harbor Seals in Washington State: 1978–1999. *The Journal of Wildlife Management*, 67(1), 207–218.
- Jemison, L. A., G. W. Pendleton, L. W. Fritz, K. K. Hastings, J. M. Maniscalco, A. W. Trites, and T. S. Gelatt.(2013). Inter-population movements of Steller sea lions in Alaska with implications for population separation. *PLoS ONE*, 8(8), e70167.
- Jensen, A.S. and G.K. Silber. 2004. Large whale ship strike database. NOAA Technical Memorandum NMFS-OPR-25, National Marine Fisheries Service: 37.
- Jensen, F.H., L. Bejder, M. Wahlberg, N. Aguilar Soto, M. Johnson, and P.T. Madsen. 2009. Vessel noise effects on delphinid communication. *Mar. Ecol. Prog. Ser.* 395:161-175.
- 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, M., P.T. Madsen, W.M.X. Zimmer, N. Aguilar Soto, and P.L. Tyack. 2004. Beaked whales echolocate on prey. *Proceedings of the Royal Society of London Series B Biological Sciences* 271 (Supplement 6):S383-S386.
- Johnson, M., P.T. Madsen, W.M.X. Zimmer, N. Aguilar Soto, P.L. Tyack. 2006. Foraging Blainville's beaked whales (*Mesoplodon densirostris*) produce distinct click types matched to different phases of echolocation. *Journal of Experimental Biology* 209:5038-5050.
- Johnson, S.R., W.J. Richardson, S.B. Yazvenko, S.A. Blokhin, G. Gailey, M.R. Jenkerson, et al. 2007. A western gray whale mitigation and monitoring program for a 3-D seismic survey, Sakhalin Island, Russia. *Environmental Monitoring and Assessment* 134 (1-3):1-19.
- Jones, E.L., G.D. Hastie, S. Smout, J. Onoufriou, N.D. Merchant, K.L. Brookes, and D. Thompson. 2017. Seals and shipping: quantifying population risk and individual exposure to vessel noise. *J. Appl. Ecol.* dx.doi.org/doi:10.1111/1365-2664.12911.
- 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.

- Joy, R., Tollit, D.J., Wood, J., MacGillivray, A., Li, Z.L., Trounce, K. and Robinson, O., 2019. Potential benefits of vessel slowdowns on endangered southern resident killer whales. *Frontiers in Marine Science*, 6, p.344.
- Kaifu, K., T. Akamatsu, and S. Segawa. 2008. Underwater sound detection by cephalopod statocyst. *Fisheries Science* 74:781-786.
- Kajimura, H. 1984. Opportunistic feeding of the northern fur seal, *Callorhinus ursinus*, in the eastern North Pacific Ocean and eastern Bering Sea. NOAA Tech. Rep. NMFS-SSRF-779. 49 p.
- 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., 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., 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., W.C. Verboom, M. Muijsers, N.V. Jennings, and S. Van der Heul. 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.
- Kasuya, T. 1986. Distribution and behavior of Baird's beaked whales off the Pacific coast of Japan. *Sci. Rep. Whales Res. Inst.* 37:61-83.
- Kasuya, T. 2009. Giant beaked whales. p. 498-500 In: W.F. Perrin, B. Würsig, and J.G.M. Theissen (eds.), *Encyclopedia of marine mammals*, 2nd edit. Academic Press, San Diego, California. 1316 p.
- Keating, J.L., J. Barlow, E.T. Griffiths, and J.E. Moore. 2018. *Passive Acoustics Survey of Cetacean Abundance Levels (PASCAL-2016) final report*. U.S. Dept. of the Interior, Bureau of Ocean Energy Management, Honolulu, HI. OCS Study BOEM 2018-025. 22 p.
- Kenney, R.D. and H.E. Winn. 1987. Cetacean biomass densities near submarine canyons compared to adjacent shelf/slope areas. *Continental Shelf Res.* 7:107-114.
- Kieckhefer, T. R. 1992. Feeding ecology of humpback whales in continental shelf waters near Cordell Bank, California. M.S. Thesis.
- Klinck, H., S.L. Nieukirk, D.K. Mellinger, K. Klinck, H. Matsumoto, and R.P. Dziak. 2012. Seasonal presence of cetaceans and ambient noise levels in polar waters of the North Atlantic. *J. Acoust. Soc. Am.* 132(3):EL176-EL181.
- Klumov, S. K. 1963. Food and helminth fauna of whalebone whales in the main whaling regions of the world ocean. *Trudy Instituta Okeanologii* 71:94-194. 1966. Plankton and the feeding of the whalebone whales (*Mystacoceti*). *Trans. Inst. Oceanol.* 51:142-156.
- 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.

- 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.
- Kostyuchenko, L.P. 1973. Effects of elastic waves generated in marine seismic prospecting on fish eggs in the Black Sea. *Hydrobiological Journal* **9** (5):45-48.
- 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.
- Krieger, K.J. and B.L. Wing. 1984. Hydroacoustic surveys and identification of humpback whale forage in Glacier Bay, Stephens Passage, and Frederick Sound, southeastern Alaska, summer 1983. NOAA Tech. Memo. NMFS F/NWC-66. U.S. Natl. Mar. Fish. Serv., Auke Bay, AK. 60 p. NTIS PB85-183887.
- Krieger, K.J. and B.L. Wing. 1984. Hydroacoustic surveys and identification of humpback whale forage in Glacier Bay, Stephens Passage, and Frederick Sound, southeastern Alaska, summer 1983. NOAA Tech. Memo. NMFS F/NWC-66. U.S. Natl. Mar. Fish. Serv., Auke Bay, AK. 60 p. NTIS PB85-183887.
- Krieger, K.J. and B.L. Wing. 1986. Hydroacoustic monitoring of prey to determine humpback whale movements. NOAA Tech. Memo. NMFS F/NWC-98. U.S. Natl. Mar. Fish. Serv., Auke Bay, AK. 63 p. NTIS PB86-204054.
- Kriete, B. 2007. Orca Relief citizens' Alliance Recommendations: Protective Regulations for Killer Whales in the Northwest Region under the Endangered Species Act and Marine Mammal Protection Act. 6 pp.
- Kryter, K. 1985. The effects of noise on man. Academic Press, Incorporated,
- Kryter, K.D., W.D. Ward, J.D. Miller, and D.H. Eldredge. 1966. Hazardous exposure to intermittent and steady-state noise. *Journal of the Acoustical Society of America* 39:451-464.
- 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.
- Lander, M. E., T. R. Loughlin, M. G. Logsdon, G. R. VanBlaricom, and B. S. Fadely. (2010). Foraging effort of juvenile Steller sea lions, *Eumetopias jubatus*, with respect to heterogeneity of sea surface temperature. *Endangered Species Research*, **10**, 145–158.
- Lang, A.R., J. Calambokidis, J. Scordino, V.L. Pease, A. Klimmek, V.N. Burkanov, P. Gearin, D.I. Litovka, K.M. Robertson, B.R. Mate, and J.K. Jacobsen. 2014. Assessment of genetic structure among eastern North Pacific gray whales on their feeding grounds. **Mar. Mamm. Sci.** 30(4):1473-1493.
- 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.
- Le Boeuf, B. J., D. E. Crocker, D. P. Costa, S. B. Blackwell, P. M. Webb, and D. S. Houser. (2000). Foraging ecology of northern elephant seals. *Ecological Monographs*, **70**(3), 353–382.
- Le Boeuf, B., D.P. Costa, A.C. Huntley, G.L. Kooyman, and R.W. Davis. 1986. Pattern and depth of dives in northern elephant seals. *J. Zool. Ser. A* 208:1-7.
- Le Boeuf, B.J., D. Crocker, S. Blackwell, and P. Morris. 1993. Sex differences in diving and foraging behavior of northern elephant seals. In: I. Boyd (ed.), *Marine mammals: advances in behavioral and population biology*. Oxford Univ. Press, London, UK.

- Lea, M.A., D. Johnson, R. Ream, J. Sterling, S. Melin, and T. Gelatt. 2009. Extreme weather events influence dispersal of naïve northern fur seals. *Biol. Lett.* 5:252-257.
- Leatherwood, S., and W. A. Walker. (1979). The northern right whale dolphin *Lissodelphis borealis peale* in the eastern North Pacific. In H. E. Winn & B. L. Olla (Eds.), *Behavior of Marine Animals* (Vol. 3, pp. 85–141). New York, NY: Plenum Press.
- LeDuc, R.G., D.W. Weller, J. Hyde, A.M. Burdin, P.E. Rosel, R.L. Brownell Jr, B. Würsig, and A.E. Dizon. 2002. Genetic differences between western and eastern gray whales (*Eschrichtius robustus*). *J. Cetacean Res. Manage.* 4(1):1-5.
- Lillis, Ashlee & Bohnenstiehl, D & B. Eggleston, David. 2014. Soundscape manipulation enhances larval recruitment of a reef-building mollusk. *PeerJ.* 3. 10.7717/peerj.999.
- Loughlin T.R., J.T. Sterling, R.L. Merrick, J.L. Sease, and A.E. York. 2003. Diving behavior of immature Steller sea lions (*Eumetopias jubatus*). *Fish. Bull.* 101:566-582
- Loughlin, T.R., D.J. Rugh, and C.H. Fiscus. 1984. Northern sea lion distribution and abundance: 1956–1980. *J. Wildl. Manage.* 48:729-740.
- Lowry, M. S. (2002). Counts of Northern Elephant Seals at Rookeries in the Southern California Bight: 1981–2001 (NOAA Technical Memorandum NMFS-SWFSC-345). La Jolla, CA: Southwest Fisheries Science Center.
- Lowry, M.S., P. Boveng, R.J. DeLong, C.W. Oliver, B.S. Stewart, H.DeAnda, and J. Barlow. 1992. Status of the California sea lion (*Zalophus californianus californianus*) population in 1992. Admin. Rep. LJ-92-32. Southwest Fisheries Science Center, National Marine Fisheries Service, La Jolla, CA 92038. 34 p.
- Luís, A.R., M.N. Couchinho, and M.E. Dos Santos. 2014. Changes in the acoustic behavior of resident bottlenose dolphins near operating vessels. *Mar. Mamm. Sci.* 30(4):1417-1426.
- Lurton, X. 2002. An introduction to underwater acoustics: Principles and applications. Springer Science & Business Media.
- Lusseau, D. and L. Bejder. 2007. The long-term consequences of short-term responses to disturbance experience from whale watching impact assessment. *Int. J. Comp. Psych.* 20(2-3):228-236.
- Lusseau, D., D.E. Bain, R. Williams and J.C. Smith. 2009. Vessel traffic disrupts the foraging behavior of southern resident killer whales *Orcinus orca*. *Endangered Species Research* 6: 211-221.
- MacGillivray, A.O. 2006. Acoustic modelling study of seismic airgun noise in Queen Charlotte Basin. M.S. thesis, University of Victoria: 109.
- MacGillivray, A.O., R. Racca, and Z. Li. 2014. Marine mammal audibility of selected shallow-water survey sources. *J. Acoust. Soc. Am.* 135(1):EL35-EL40.
- MacLeod, C.D., N. Hauser, and H. Peckham. 2004. Diversity, relative density and structure of the cetacean community in summer months east of Great Abaco, Bahamas. *J. Mar. Biol. Assoc. U.K.* 84:469-474.
- MacLeod, C.D., W.F. Perrin, R. Pitman, J. Barlow, L. Ballance, A. D’Amico, T. Gerrodette, G. Joyce, K.D. Mullin, D.L. Palka, and G. T. Warring. 2006. Known and inferred distributions of beaked whale species (Cetacea: Ziphiidae). *J. Cetac. Res. Manage.* 7(3):271-286.
- Madsen, P. T., Wahlberg, M., Tougaard, J., Lucke, K., and Tyack, P. L. 2006. “Wind turbine underwater noise and marine mammals: Implications of current knowledge and data needs,” *Mar. Ecol.: Prog. Ser.* 309,279–295

- Madsen, P.T., M. Johnson, P.J.O. Miller, N.A. Soto, J. Lynch, and P. Tyack. 2006a. 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. and P.R. Miles. 1985. Behavioral responses of marine mammals (gray whales) to seismic discharges. Pages 253-280 in G.D. Greene, F.R. Engelhard, and R.J. Paterson, eds. *Proceedings of the Workshop on Effects of Explosives Use in the Marine Environment*, January 1985, Halifax, NS. Technical Report 5. Canadian Oil & Gas Lands Administration, Environmental Protection Branch, Ottawa, ONT.
- Malme, C.I., P.R. Miles, C.W. Clark, P. Tyack, and J.E. Bird. 1984. Investigations of the potential effects of underwater noise from petroleum industry activities on migrating gray whale behavior/Phase II: January 1984 migration. BBN Rep. 5586. Rep. from Bolt Beranek & Newman Inc., Cambridge, MA, for MMS, Alaska OCS Region, Anchorage, AK. NTIS PB86-218377.
- Malme, C.I., P.R. Miles, C.W. Clark, P. Tyack, and J.E. Bird. 1984. Investigations of the potential effects of underwater noise from petroleum industry activities on migrating gray whale behavior/Phase II: January 1984 migration. BBN Report 5586. Prepared by Bolt Beranek & Newman Inc., Cambridge, MA, for MMS, Alaska OCS Region, Anchorage, AK.
- Mangels, K.F. and T. Gerrodette. 1994. Report of cetacean sightings during a marine mammal survey in the eastern Pacific Ocean and the Gulf of California aboard the NOAA ships McArthur and David Starr Jordan, July 28–November 6, 1993. NOAA Tech. Memo. NOAA-TM-NMFS-SWFSC-211. Nat. Mar. Fish. Serv., Southwest Fish. Sci. Center, La Jolla, CA.
- Maniscalco J.M., K. Wynne, K.W. Pitcher, M.B. Hanson, S.R. Melin, and S. Atkinson. 2004. The occurrence of California sea lions in Alaska. *Aquatic Mamm.* 30:427-433.
- Martins, D.T.L., M.R. Rossi-Santos, and F.J. De Lima Silva. 2016. Effects of anthropogenic noise on the acoustic behaviour of *Sotalia guianensis* (Van Bénédén, 1864) in Pipa, North-eastern Brazil. *J. Mar. Biol. Assoc. U.K.* 2016:1-8.
<http://dx.doi.org/doi:10.1017/S0025315416001338>.
- Mate, B.R., B.A. Lagerquist, and J. Calambokidis. 1999. Movements of North Pacific blue whales during the feeding season off southern California and their southern fall migration. *Mar. Mamm. Sci.* 15(4):1246-1257.
- Mate, B.R., V.Y. Ilyashenko, A.L. Bradford, V.V. Vetyankin, G.A. Tsidulko, V.V. Rozhnov, and L.M. Irvine. 2015. Critically endangered western gray whales migrate to the eastern North Pacific. *Biol. Lett.* 11:20150071. doi:10.1098/rsbl.2015.0071.
- Mazzariol, S., G. Di Guardo, A. Petrella, L. Marsili, C.M. Fossi, C. Leonzio, et al. 2010. Sometimes sperm whales (*Physeter macrocephalus*) cannot find their way back to the high seas: A multidisciplinary study on a mass stranding. *PLoS ONE* 6 (5):e19417.
- McAlpine, D.F. 2018. Pygmy and dwarf sperm whales *Kogia breviceps* and *K. sima*. p. 786-788 In: B. Würsig, J.G.M. Thewissen, and K.M. Kovacs (eds.), *Encyclopedia of Marine Mammals*, 3rd Edition. Academic Press/Elsevier, San Diego, CA. 1157 p.
- McCauley, R. D., R. D. Day, K. M. Swadling, Q. P. Fitzgibbon, R. A. Watson, and J. M. Semmens. 2017. Widely used marine seismic survey air gun operations negatively impact zooplankton. *Nature Ecology and Evolution* 1: 1-8.

- McCauley, R.D., J. Fewtrell, A.J. Duncan, C. Jenner, M.-N. Jenner, J.D. Penrose, R.I.T. Prince, A. Adhitya, J. Murdoch, and K. McCabe. 2000. Marine seismic surveys: analysis of airgun signals; and effects of air gun exposure on humpback whales, sea turtles, fishes and squid. Rep. from Centre for Marine Science and Technology, Curtin Univ., Perth, W.A., for Austral. Petrol. Prod. Assoc., Sydney, N.S.W. 188 p.
- McCauley, R.D., J. Fewtrell, A.J. Duncan, C. Jenner, M.-N. Jenner, J.D. Penrose, et al. 2000b. Marine seismic surveys: Analysis and propagation of air-gun signals; and effects of air-gun exposure on humpback whales, sea turtles, fishes and squid. Prepared for Australian Petroleum Production Exploration Association, Curtin University of Technology: 203.
- McCauley, R.D., J. Fewtrell, and A.N. Popper. 2003. High intensity anthropogenic sound damages fish ears. *Journal of the Acoustical Society of America* **113** (1):638-642.
- McCauley, R.D., R.D. Day, K.M. Swadling, Q.P. Fitzgibbon, R.A. Watson, J.M. Semmens. 2017. Widely used marine seismic survey air gun operations negatively impact zooplankton. *Nature Ecology & Evolution* **1** (0195):1-8.
- McCauley, Robert & Day, Ryan & Swadling, Kerrie & Fitzgibbon, Quinn & Watson, Reg & Semmens, Jayson. (2017). Widely used marine seismic survey air gun operations negatively impact zooplankton. *Nature Ecology and Evolution*. 1. 10.1038/s41559-017-0195. 0.1186/1746-6148-8-20
- McDonald, M.A., J.A. Hildebrand, and S.C. Webb. 1995. Blue and fin whales observed on a seafloor array in the northeast Pacific. *J. Acoust. Soc. Am.* 98(2, Pt.1):712-721.
- Mead, J.G. 1989. Beaked whales of the genus *Mesoplodon*. p. 349-430 In: S.H. Ridgway and R.J. Harrison (eds.), *Handbook of marine mammals*, Vol. 4: River dolphins and the larger toothed whales. Academic Press, San Diego, CA. 444 p.
- Mead, J.G., W.A. Walker, and W.J. Jouck. 1982. Biological observations on *Mesoplodon carlhubbsi* (Cetacea: Ziphiidae). *Smithson. Contrib. Zool.* 344.
- Melcón, M.L., A.J. Cummins, S.M. Kerosky, L.K. Roche, S.M. Wiggins, and J.A. Hildebrand. 2012. Blue whales respond to anthropogenic noise. *PLoS ONE* 7(2):e32681. <http://dx.doi.org/doi:10.1371/journal.pone.0032681>.
- Melin, S. R., and R. L. DeLong. (1999). Observations of a Guadalupe fur seal (*Arctocephalus townsendi*) female and pup at San Miguel Island, California. *Marine Mammal Science*, 15(3), 885–887.
- Menza, C., J. Leirness, T. White, A. Winship, B. Kinlan, L. Kracker, J.E. Zamon, L. Balance, E. Becker, K.A. Forney, J. Barlow, J. Adams, D. Pereksta, S. Pearson, J. Pierce, S. Jeffries, J. Calambokidis, A. Douglas, B. Hanson, S.R. Benson, and L. Antrim. 2016. Predictive mapping of seabirds, pinnipeds and cetaceans off the Pacific coast of Washington. NOAA Tech. Memo. NOS NCCOS 210. Silver Spring, MD. 96 p. <http://dx.doi.org/doi:10.7289/V5NV9G7Z>.
- Menza, C., J. Leirness, T. White, A. Winship, B. Kinlan, L. Kracker, J.E. Zamon, L. Balance, E. Becker, K.A. Forney, J. Barlow, J. Adams, D. Pereksta, S. Pearson, J. Pierce, S. Jeffries, J. Calambokidis, A. Douglas, B. Hanson, S.R. Benson, and L. Antrim. 2016. Predictive mapping of seabirds, pinnipeds and cetaceans off the Pacific coast of Washington. NOAA Tech. Memo. NOS NCCOS 210. Silver Spring, MD. 96 p. <http://dx.doi.org/doi:10.7289/V5NV9G7Z>.
- Merrick, R. L., and T. R. Loughlin. (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, I., and E. Cripps. 2013. Three dimensional marine seismic survey has no measurable effect on species richness or abundance of a coral reef associated fish community. *Marine Pollution Bulletin* **77** (1-2):63-70.
- Miller, J.D. 1974. Effects of noise on people. *Journal of the Acoustical Society of America* **56**:729-764.
- Miller, P.J.O., M.P. Johnson, P.T. Madsen, N. Biassoni, M. Quero, and P.L. Tyack. 2009. Using at-sea experiments to study the effects of airguns on the foraging behavior of sperm whales in the Gulf of Mexico. *Deep-Sea Res. I* **56**(7):1168-1181.
- Miller, P.J.O., N. Biassoni, A. Samuels, and P.L. Tyack. 2000. Whale songs lengthen in response to sonar. *Nature* **405** (6789):903.
- Miller, P.J.O., P.H. Kvasdheim, F.P.A. Lam, P.J. Wensveen, R. Antunes, A.C. Alves, F. Visser, L. Kleivane, P.L. Tyack, and L.D. Sivle. 2012. The severity of behavioral changes observed during experimental exposures of killer (*Orcinus orca*), long-finned pilot (*Globicephala melas*), and sperm whales (*Physeter macrocephalus*) to naval sonar. *Aquat. Mamm.* **38**(4):362-401.
- 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.
- Moberg GP. Problems in defining stress and distress in animals. *J Am Vet Med Assoc.* 1987;191(10):1207–1211. [PubMed]
- 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.
- Mooney, T.A., R.T. Hanlon, J. Christensen-Dalsgaard, P.T. Madsen, D. Ketten, and P.E. Nachtigall. 2010. Sound detection by the longfin squid (*Loligo pealeii*) studied with auditory evoked potentials: Sensitivity to low-frequency particle motion and not pressure. *Journal of Experimental Biology* **213**:3748-3759.
- 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.
- Moore, S.E., K.M. Stafford, D.K. Mellinger, and C.G. Hildebrand. 2006. Listening for large whales in the offshore waters of Alaska. *BioScience* **56**(1):49-55.
- Moore, S.E., K.M. Stafford, M.E. Dahlheim, C.G. Fox, H.W. Braham, J.J. Polovina, and D.E. Bain. 1998. Seasonal variation in reception of fin whale calls at five geographic areas in the North Pacific. *Mar. Mamm. Sci.* **14**(3):617-627.
- Morejohn, G.V. 1979. The natural history of Dall's porpoise in the North Pacific Ocean. In: H.E. Winn and B.L. Olla (eds.), *Behavior of marine animals: current perspectives in research*, Vol. 3: Cetaceans. Plenum Press, New York, NY. 438 p.
- Morin, P.A., C.S. Baker, R.S. Brewer, A.M. Burdin, M.L. Dalebout, J.P. Dines, I.D. Fedutin, O.A. Filatova, E. Hoyt, J.-L. Jung, M. Lauf, C.W. Potter, G. Richard, M. Ridgway, K.M. Robertson, and P.R. Wade. 2017. Genetic structure of the beaked whale genus *Berardius* in the North Pacific, with genetic evidence for a new species. *Mar. Mamm. Sci.* **33**(1):96-111.
- Morton, A. B., and Symonds, H. K. 2002. Displacement of *Orcinus orca* (L.) by high amplitude sound in British Columbia, Canada. *ICES Journal of Marine Science: Journal du Conseil*, **59**: 71–80.

- Muto, M.M, V. T. Helker, B.J. Delean, R.P. Angliss, P.L. Boveng, J.M. Breiwick, B.M. Brost, 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. Mizroch, R.R. Ream, E.L. Richmond, K.E.W. Shelden, K.L. Sweeney, R.G. Towell, P.R. Wade, J.M. Waite, and A.N. Zerbini. 2019b. Draft Alaska marine mammal stock assessments, 2019. U.S. Dept. of Commerce, NOAA Tech. Memo.
- Muto, M.M, V. T. Helker, 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. Mizroch, R.R. Ream, E.L. Richmond, K.E.W. Shelden, R.G. Towell, P.R. Wade, J.M. Waite, and A.N. Zerbini. 2018. Alaska marine mammal stock assessments, 2017. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-AFSC-378, 382 p.
- Muto, M.M, V. T. Helker, R.P. Angliss, 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. Mizroch, R.R. Ream, E.L. Richmond, K.E.W. Shelden, K.L. Sweeney, R.G. Towell, P.R. Wade, J.M. Waite, and A.N. Zerbini. 2019a. Alaska marine mammal stock assessments, 2018. U.S. Dept. of Commerce, NOAA Tech. Memo. NMFS-AFSC-393. 390 p.
- Nachtigall, P.E. and A.Y. Supin. 2013. A false killer whale reduces its hearing sensitivity when a loud sound is preceded by a warning. *J. Exp. Biol.* 216:3062-3070.
- Nachtigall, P.E., A.Y. Supin, A.F. Pacini, and R.A. Kastelein. 2018. Four odontocete species change hearing levels when warned of impending loud sound. *Integrative Zoology* 13 (2): 160-165.
- Neilson, J. L., C. Gabriele, and P. Vanselow. 2015. Humpback whale monitoring in Glacier Bay and adjacent waters 2014. Annual progress report. Natural Resource Report NPS/GLBA/NRR2015/949. National Park Service, Fort Collins, Colorado.
- Nemoto, T. 1957. Foods of baleen whales in the northern Pacific. *Scientific Report of the Whales Research Institute (Tokyo)*, 12: 33–89
- Nemoto, T. 1959. Food of baleen whales with reference to whale movements. *Scientific Report of the Whales Research Institute (Tokyo)*, 14: 144–290.
- Nerini, M. 1984. A review of gray whale feeding ecology. p. 423-450 *In*: Jones, M.L., S.I. Swartz, and S. Leatherwood (eds.), *The gray whale, Eschrichtius robustus*. Academic Press, Inc. Orlando, FL. 600 p.
- Ng SL, Leung S (2003) Behavioral response of Indo-Pacific humpback dolphin (*Sousa chinensis*) to vessel traffic. *Mar Environ Res* 56:555-567
- Nichol, L.M. and J.K.B. Ford. 2012. Information relevant to the assessment of critical habitat for Blue, Fin, Sei and North Pacific Right Whales in British Columbia. DFO Can. Sci. Advis. Sec. Res. Doc. 2011/137. vi + 31 p.
- Nieukirk, S.L., D.K. Mellinger, S.E. Moore, K. Klinck, R.P. Dziak, and J. Goslin. 2012. Sounds from airguns and fin whales recorded in the mid-Atlantic Ocean, 1999–2009. *J. Acoust. Soc. Am.* 131(2):1102-1112.
- 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 (National Marine Fisheries Service). 1993. Designated critical habitat; Steller sea lion. Final Rule. *Fed. Reg.* 58(165, 27 Aug.):45269-45285.

- NMFS 2019. Proposed Revision of the Critical Habitat Designation for Southern Resident Killer Whales. Draft Biological Report (to accompany proposed rule). National Marine Fisheries Service West Coast Region.
- NMFS Gray Whale UME website <https://www.fisheries.noaa.gov/national/marine-life-distress/2019-gray-whale-unusual-mortality-event-along-west-coast>
- NMFS. 1998. Recovery plan for the blue whale (*Balaenoptera musculus*). Prepared by R.R. Reeves, P.J. Clapham, R.L. Brownell, Jr., and G.K. Silber for the Nat. Mar. Fish. Serv., Silver Spring, MD. 42 p.
- NMFS. 2019b. Endangered and threatened wildlife and plants: proposed rule to designate critical habitat for the Central America, Mexico, and Western North Pacific Distinct Population Segments of Humpback Whales. **Fed. Reg.** 84(196, 9 Oct.):54354-54391.
- NMFS. 2007. Conservation plan for the Eastern Pacific stock of northern fur seal (*Callorhinus ursinus*). National Marine Fisheries Service, Juneau, AK. 137 p.
- NMFS. 2007. Conservation plan for the Eastern Pacific stock of northern fur seal (*Callorhinus ursinus*). National Marine Fisheries Service, Juneau, AK. 137 p.
- NMFS. 2016b. Endangered and threatened species; identification of 14 distinct population segments of the humpback whale (*Megaptera novaeangliae*) and revision of species-wide listing. Final Rule. *Fed. Regist.* 81(174, 8 Sept.):62260-62320.
- Noren, D.P., Holt, M.M., Dunkin, R.C., Thometz, N.M. and Williams, T.M., 2016, July. Comparative and cumulative energetic costs of odontocete responses to anthropogenic disturbance. In *Proceedings of Meetings on Acoustics 4ENAL* (Vol. 27, No. 1, p. 040011). Acoustical Society of America.
- Noren, D.P., Holt, M.M., Dunkin, R.C., Thometz, N.M. and Williams, T.M., 2016, July. Comparative and cumulative energetic costs of odontocete responses to anthropogenic disturbance. In *Proceedings of Meetings on Acoustics 4ENAL* (Vol. 27, No. 1, p. 040011). Acoustical Society of America.
- Norman, S.A., C.E. Bowlby, M.S. Brancato, J. Calambokidis, D. Duffield, J.P. Gearin, T.A. Gornall, M.E. Gosho, B. Hanson, J. Hodder, S. Jeffries, B. Lagerquist, D.M. Lambourn, B. Mate, B. Norberg, R.W. Osborne, J.A. Rash, S. Riemer, and J. Scordino. 2004. Cetacean strandings in Oregon and Washington between 1930 and 2002. *J. Cetac. Res. Manage.* 6(1):87-99.
- Norris, T. (2017a). [Personal communication via email between Tenaya Norris (The Marine Mammal Center) and Conrad Erkelens (Mantech International Corporation) on Guadalupe fur seal abundance and distribution].
- Norris, T. (2017b). [Updated abundance estimate for Guadalupe fur seals. Personal communication on August 18, 2017, between Tenaya Norris (The Marine Mammal Center) and Michael Zickel (Mantech International) via email].
- Norris, T.F., M. Mc Donald, and J. Barlow. 1999. Acoustic detections of singing humpback whales (*Megaptera novaeangliae*) in the eastern North Pacific during their northbound migration. *J. Acoust. Soc. Am.* 106(1):506-514.
- Nowacek, D.P., K. Bröker, G. Donovan, G. Gailey, R. Racca, R.R. Reeves, A.I. Vedenev, D.W. Weller, and B.L. Southall. 2013. Responsible practices for minimizing and monitoring environmental impacts of marine seismic surveys with an emphasis on marine mammals. *Aquatic Mamm.* 39(4):356-377.
- Nowacek, D.P., L.H. Thorne, D.W. Johnston, and P.L. Tyack. 2007. Responses of cetaceans to anthropogenic noise. *Mamm. Rev.* 37(2):81-115.

- Nowacek, D.P., M.P. Johnson, and P.L. Tyack. 2004. North Atlantic right whales (*Eubalaena glacialis*) ignore ships but respond to alerting stimuli. *Proceedings of the Royal Society of London B: Biological Sciences* 271(1536):227-231.
- NRC (National Research Council). 2005. Marine mammal populations and ocean noise/Determining when noise causes biologically significant effects. U.S. Nat. Res. Council., Ocean Studies Board, Committee on characterizing biologically significant marine mammal behavior (Wartzok, D.W., J. Altmann, W. Au, K. Ralls, A. Starfield, and P.L. Tyack). Nat. Acad. Press, Washington, DC. 126 p.
- O'Brien, J.M., S. Beck, S.D. Berrow, M. André, M. van der Schaar, I. O'Connor, and E.P. McKeown. 2016. The use of deep water berths and the effect of noise on bottlenose dolphins in the Shannon Estuary cSAC. p. 775-783 In: *The effects of noise on aquatic life II*, Springer, New York, NY. 1292 p.
- OBIS (Ocean Biogeographic Information System). 2018. Data from the Ocean Biogeographic Information System. Intergovernmental Oceanographic Commission of UNESCO. Accessed on 19 November 2018 at <http://www.iobis.org>.
- Odell, D.K. and K.M. McClune. 1999. False killer whale *Pseudorca crassidens* (Owen, 1846). p. 213-243 In: S.H. Ridgway and R. Harrison (eds.), *Handbook of marine mammals, Vol. 6: The second book of dolphins and the porpoises*. Academic Press, San Diego, CA. 486 p.
- Olesiuk, P. F. (2012). Habitat utilization by northern fur seals (*Callorhinus ursinus*) in the Northeastern Pacific Ocean and Canada (Research Document 2012/040). Nanaimo, BC: Canadian Science Advisory Secretariat.
- Olesiuk, P.F. and M.A. Bigg. 1984. Marine mammals in British Columbia. Accessed October 2019 at <http://www.racerocks.ca/marine-mammals-in-british-columbia/>
- Oleson, E.M., J. Calambokidis, E. Falcone, G. Schorr, and J.A. Hildebrand. 2009. Acoustic and visual monitoring for cetaceans along the outer Washington coast. Naval Post Graduate School, Monterey, California. Rep. prepared for CNO(N45), Washington, D.C. 26 p. + appendix.
- Olson, J.K., Wood, J., Osborne, R.W., Barrett-Lennard, L. and Larson, S., 2018. Sightings of southern resident killer whales in the Salish Sea 1976–2014: the importance of a long-term opportunistic dataset. *Endangered Species Research*, 37, pp.105-118.
- Olson, P.A. 2009. Pilot whales *Globicephala melas* and *G. macrorhynchus*. p. 847-852 In: W.F. Perrin, B. Würsig, and J.G.M. Thewissen (eds.), *Encyclopedia of marine mammals*, 2nd edit. Academic Press, San Diego, CA. 1316 p.
- Osborne, R., J. Calambokidis, and E.M. Dorsey. 1988. *A Guide to marine mammals of greater Puget Sound*. Island Publishers, Anacortes, WA. 191 p.
- 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. 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.

- Papale, E., M. Gamba, M. Perez-Gil, V.M. Martin, and C. Giacoma. 2015. Dolphins adjust species-specific frequency parameters to compensate for increasing background noise. PLoS ONE 10(4):e0121711. <http://dx.doi.org/doi:10.1371/journal.pone.0121711>.
- Pardo, M.A., T. Gerrodette, E. Beier, D. Gendron, K.A. Forney, S.J. Chivers, J. Barlow, and D.M. Palacios. 2015. Inferring cetacean population densities from the absolute dynamic topography of the ocean in a hierarchical Bayesian framework. PLoS One 10(3):e0120727. <https://doi.org/10.1371/journal.pone.0120727>.
- Parks et al., 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 (2007).
- Parks, S.E. M. Johnson, D. Nowacek, and P.L. Tyack. 2011. Individual right whales call louder in increased environmental noise. Biol. Lett. 7(1):33-35.
- Parks, S.E., D.A. Cusano, A. Bocconcelli, and A.S. Friedlaender. 2016b. Noise impacts on social sound production by foraging humpback whales. Abstr. 4th Int. Conf. Effects of Noise on Aquatic Life, July 2016, Dublin, Ireland.
- Parks, S.E., K. Groch, P. Flores, R. Sousa-Lima, and I.R. Urazghildiiev. 2016a. Humans, fish, and whales: how right whales modify calling behavior in response to shifting background noise conditions. p. 809-813 In: A.N. Popper and A. Hawkins (eds.), The effects of noise on aquatic life II. Springer, New York, NY. 1292 p.
- Parks, S.E., M.P. Johnson, D.P. Nowacek, and P.L. Tyack. 2012. Changes in vocal behaviour of North Atlantic right whales in increased noise. p. 317-320 In: A.N. Popper and A. Hawkins (eds.), The effects of noise on aquatic life. Springer, New York, NY. 695 p.
- 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.
- Payne, J.F. 2004. Potential effect of seismic surveys on fish eggs, larvae and zooplankton. Research Document 2004/125, Fisheries and Oceans Canada: 16.
- Payne, R. 1978. Behavior and vocalizations of humpback whales (*Megaptera* sp.). In: K.S. Norris and R.R. Reeves (eds.), Report on a workshop on problems related to humpback whales (*Megaptera novaeangliae*) in Hawaii. MCC-77/03. Rep. from Sea Life Inc., Makapuu Pt., HI, for U.S. Mar. Mamm. Comm., Washington, DC.
- Pearson, W.H., J.R. Skalski, and C.I. Malme. 1992. Effects of sounds from a geophysical survey device on behavior of captive rockfish (*Sebastes* spp.). Canadian Journal of Fisheries and Aquatic Sciences 49: 1343-1356.
- Pearson, W.H., J.R. Skalski, S.D. Sulkin, and C.I. Malme. 1994. Effects of seismic energy releases on the survival and development of zoeal larvae of dungeness crab (*Cancer magister*). Marine Environmental Research 38 (2):93-113.
- Pelland, N.A., J.T. Sterling, M.A. Lea, N.A. Bond, R.R. Ream, C.M. Lee, and C.C. Eriksen. 2014. Female northern fur seals (*Callorhinus ursinus*) off the Washington (USA) coast: upper ocean variability and links to top predator behavior. PLoS ONE 9(8):e101268. <https://doi.org/10.1371/journal.pone.0101268>.
- 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.
- Perrin, W.F. 2009. Pantropical spotted dolphin *Stenella attenuata*. p. 819-821 In: W.F. Perrin, B. Würsig, and J.G.M. Thewissen (eds.), Encyclopedia of marine mammals, 2nd edit. Academic Press, San Diego, CA. 1316 p.

- Perrin, W.F. and R.L. Brownell, Jr. 2009. Minke whales *Balaenoptera acutorostrata* and *B. bonaerensis*. p. 733-735 In: W.F. Perrin, B. Würsig, and J.G.M. Thewissen (eds.), *Encyclopedia of marine mammals*, 2nd edit. Academic Press, San Diego, CA. 1316 p.
- Perrin, W.F., C.E. Wilson, and F.I. Archer, II. 1994. Striped dolphin *Stenella coeruleoalba* (Meyen, 1833). p. 129-159 In: S. H. Ridgway and R. J. Harrison (eds.), *Handbook of marine mammals*, Vol. 5: The first book of dolphins. Academic Press, San Diego, CA. 416 p.
- Perry, S.L., D.P. DeMaster, and G.K. Silber. 1999a. The great whales: history and status of six species listed as endangered under the U.S. Endangered Species Act of 1973. *Mar. Fish. Rev.* 61(1):7-23.
- Perry, S.L., D.P. DeMaster, and G.K. Silber. 1999b. The fin whale. *Mar. Fish. Rev.* 61(1):44-51.
- Pierson, M.O., J.P. Wagner, V. Langford, P. Birnie, and M.L. Tasker. 1998. Protection from, and mitigation of, the potential effects of seismic exploration on marine mammals. Chapter 7 In: M.L. Tasker and C. Weir (eds.), *Proc. Seismic Mar. Mamm. Worksh.*, London, U.K., 23–25 June 1998.
- Pijanowski, B., Villanueva-Rivera, L., Dumyahn, S., Farina, A., Krause, B., Napoletano, B., . . . Pieretti, N. (2011). Soundscape Ecology: The Science of Sound in the Landscape. *BioScience*, 61(3), 203-216. doi:10.1525/bio.2011.61.3.6
- Pike, G.C. and I.B. MacAskie. 1969. Marine mammals of British Columbia. *Bull. Fish. Res. Board Can.* 171. 54 p.
- Pitcher, K.W. and D.C. McAllister. 1981. Movements and haul out behavior of radio-tagged harbor seals, *Phoca vitulina*. *Can. Field-Nat.* 95:292-297.
- Pitcher, K.W. and D.G. Calkins. 1979. Biology of the harbor seal (*Phoca vitulina richardsi*) in the Gulf of Alaska. U.S. Dep. Commer., NOAA, OCSEAP Final Rep. 19(1983):231-310.
- Pitcher, K.W., P.F. Olesiuk, R.F. Brown, M.S. Lowry, S.J. Jeffries, J.L. Sease, W.L. Perryman, C.E. Stinchcomb, and L.F. Lowry. 2007. Status and trends in abundance and distribution of the eastern Steller sea lion (*Eumetopias jubatus*) population. *Fish. Bull.* 105(1):102-115.
- Pitcher, K.W., V.N. Burkanov, D.G. Calkins, B.F. LeBoeuf, E.G. Mamaev, R.L. Merrick, and G.W. Pendleton. 2002. Spatial and temporal variation in the timing of births of Steller sea lions. *J. Mammal.* 82:1047-1053.
- Pitman, R.L. 2009. Mesoplodont whales (*Mesoplodon* spp.) p. 721-726 In: W.F. Perrin, B. Würsig, and J.G.M. Thewissen (eds.), *Encyclopedia of marine mammals*, 2nd edit. Academic Press, San Diego, CA. 1316 p.
- Popov, V., A. Supin, D. Nechaev, E.V. Sysueva, and V. Rozhnov. 2016. Temporary threshold shifts in naïve and experienced belugas: Can dampening of the effects of fatiguing sounds be learned? p. 853-859 In: A.N. Popper and A. Hawkins (eds.), *The effects of noise on aquatic life II*. Springer, New York, NY. 1292 p.
- Punt, A.E. and P.R. Wade. 2009. Population status of the eastern North Pacific stock of gray whales in 2009. *J. Cetacean Res. Manage.* 12(1):15-28.
- Popper, A.N. and M.C. Hastings. 2009. The effects of anthropogenic sources of sound on fishes. *J. Fish Biol.* 75(3):455-489.
- Popper, A.N., M.E. Smith, P.A. Cott, B.W. Hanna, A.O. MacGillivray, M.E. Austin, and D.A. Mann. 2005. Effects of exposure to seismic airgun use on hearing of three fish species. *Journal of the Acoustical Society of America* 117 (6):3958.

- Putland, R.L., N.D. Merchant, A. Farcas, and C.A. Radford. 2017. Vessel noise cuts down communication space for vocalizing fish and marine mammals. *Glob. Change Biol.* <https://doi.org/10.1111/gcb.13996>.
- Rasmussen, K., D.M. Palacios, J. Calambokidis, M.T. Saborio, L. Dalla Rosa, E.R. Secchi, G.H. Steiger, J.M. Allen, and G.S. Stone. 2007. Southern Hemisphere humpback whales wintering off Central America: insights from water temperature into the longest mammalian migration. *Biol. Lett.* 3:302-305.
- Rasmussen, K., J. Calambokidis, and G.H. Steiger. 2004. Humpback whales and other marine mammals off Costa Rica and surrounding waters, 1996–2003. Report of the Oceanic Society 2003 field season in cooperation with Elderhostel volunteers. Cascadia Research, Olympia, WA. 24 p.
- Raum-Suryan, K.L., K.W. Pitcher, D.G. Calkins, J.L. Sease, and T.R. Loughlin. 2002. Dispersal, rookery fidelity, and metapopulation structure of Steller sea lions (*Eumetopias jubatus*) in an increasing and a decreasing population in Alaska. *Mar. Mammal Sci.* 18(3):746-764.
- Ream, R.R., J.T. Sterling, and T.R. Loughlin. 2005. Oceanographic features related to northern fur seal migratory movements. *Deep-Sea Res. II*: 823-843.
- Redfern, J. V., M. C. Ferguson, E. A. Becker, K. D. Hyrenbach, C. Good, J. Barlow, K. Kaschner, M. F. Baumgartner, K. A. Forney, L. T. Ballance, P. Fauchald, P. Halpin, T. Hamazaki, A. J. Pershing, S. S. Qian, A. Read, S. B. Reilly, L. G. Torres, and F. Werner. (2006). Techniques for cetacean-habitat modeling. *Marine Ecology Progress Series*, 310, 271–295.
- Reeves, R. 2005. Impacts of Sakhalin II Phase 2 on western North Pacific gray whales and related biodiversity. Independent Scientific Review Panel: 129.
- Reeves, R.R. and E. Mitchell. 1993. Status of Baird's beaked whale, *Berardius bairdii*. *Can. Field-Nat.* 107(4):509-523.
- Reeves, R.R., B.S. Stewart, P.J. Clapham, and J.A. Powell. 2002. Guide to marine mammals of the world. Chanticleer Press, New York, NY. 525 p.
- Reilly, S. B., and S. H. Shane. (1986). Pilot whale. In D. Haley (Ed.), *Marine Mammals of the Eastern North Pacific and Arctic Waters* (2nd ed., pp. 132–139). Seattle, WA: Pacific Search Press.
- Reyes, J.C. 1991. The conservation of small cetaceans: a review. Report prepared for the Secretariat of the Convention on the Conservation of Migratory Species of Wild Animals. UNEP.
- Rice, A.N., J.T. Tielens, B.J. Estabrook, C.A. Muirhead, A. Rahaman, M. Guerra, and C.W. Clark. 2014. Variation of ocean acoustic environments along the western North Atlantic coast: a case study in context of the right whale migration route. *Ecol. Inform.* 21:89-99.
- Rice, D.W. 1989. Sperm whale *Physeter macrocephalus* Linnaeus, 1758. p. 177-233 In: S.H. Ridgway and R. Harrison (eds.), *Handbook of marine mammals*, Vol. 4: River dolphins and the larger toothed whales. Academic Press, San Diego, CA. 444 p.
- Rice, D.W. 1998. *Marine mammals of the world, systematics and distribution*. Spec. Publ. 4. Soc. Mar. Mammal., Allen Press, Lawrence, KS. 231 p.
- Rice, D.W. 1974. Whales and whale research in the eastern North Pacific. p. 170-195 In: W.E. Schevill (ed.), *The whale problem: a status report*. Harvard Press, Cambridge, MA.
- Rice, D.W. 1978. The humpback whale in the North Pacific: distribution, exploitation and numbers. p. 29-44 In: K.S. Norris and R.R. Reeves (eds.), *Report on a workshop on*

- problems related to humpback whales (*Megaptera novaeangliae*) in Hawaii. NTIS PB 280 794, U.S. Dept. of Comm.
- Rice, D.W. and A.A. Wolman. 1971. The life history and ecology of the gray whale (*Eschrichtius robustus*). Soc. Mar. Mammal., Spec. Publ. 3, Allen Press, Lawrence, KS.
- Richardson, A.J., R.J. Matear, and A. Lenton. 2017. Potential impacts on zooplankton of seismic surveys. Commonwealth Scientific and Industrial Research Organisation, Australia: 34.
- Richardson, W.J., C.R. Greene, Jr., C.I. Malme, and D.H. Thomson. 1995. Marine mammals and noise. Academic Press, San Diego. 576 p.
- 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.
- Robinson, P. W., D. P. Costa, D. E. Crocker, J. P. Gallo-Reynoso, C. D. Champagne, M. A. Fowler, C. Goetsch, K. T. Goetz, J. L. Hassrick, L. A. Huckstadt, C. E. Kuhn, J. L. Maresh, S. M. Maxwell, B. I. McDonald, S. H. Peterson, S. E. Simmons, N. M. Teutschel, S. Villegas-Amtmann, and K. Yoda. (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), e36728.
- Rolland, R.M., S.E. Parks, K.E. Hunt, M. Castellote, P.J. Corkeron, D.P. Nowacek, S.K. Water, and S.D. Kraus. 2012. Evidence that ship noise increases stress in right whales. *Proc. R. Soc. B* 279:2363-2368.
- 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.
- Rosel, P.E., A.E. Dizon, and M.G. Haygood. 1995. Variability of the mitochondrial control region in populations of the harbour porpoise, *Phocoena phocoena*, on inter-oceanic and regional scales. *Can. J. Fish. Aqu. Sci.* 52(6):1210-1219.
- RPS. 2012a. Protected species mitigation and monitoring report; Cascadia Subduction Margin Geohazards Grays Harbor, Washington. Rep. by RPS, Houston, TX, for Lamont-Doherty Earth Observatory of Columbia Univ., Palisades, NY, and National Science Foundation, Arlington, VA. 98 p.
- RPS. 2012b. Draft protected species mitigation and monitoring report; Juan de Fuca Plate Evolution and Hydration in the northeast Pacific Ocean. Rep. by RPS, Houston, TX, for Lamont-Doherty Earth Observatory of Columbia Univ., Palisades, NY, and National Science Foundation, Arlington, VA. 74 p.
- RPS. 2012c. Protected species mitigation and monitoring report; Cascadia Thrust Zone Structures in the northeast Pacific Ocean. Rep. by RPS, Houston, TX, for Lamont-

- Doherty Earth Observatory of Columbia Univ., Palisades, NY, and National Science Foundation, Arlington, VA. 56 p.
- Sætre, R., and E. Ona. 1996. Seismic investigations and damage to fish eggs and larvae: an assessment of possible stock-level effects. Norwegian Institute of Marine Research. *Fisken og Havet* Nr. 8. (Norwegian with English summary.)
- Sairanen, E.E. 2014. Weather and ship induced sounds and the effect of shipping on harbor porpoise (*Phocoena phocoena*) activity. M.Sc. Thesis, University of Helsinki. 67 p.
- Salden, D.R. 1993. Effects of research boat approaches on humpback whale behavior off Maui, Hawaii, 1989–1993. p. 94 In: *Abstr. 10th Bienn. Conf. Biol. Mar. Mamm.*, Galveston, TX, Nov. 1993. 130 p.
- Samson, J.E., T.A. Mooney, S.W. Gussekloo, and R.T. Hanlon. 2014. Graded behavioral responses and habituation to sound in the common cuttlefish *Sepia officinalis*. *Journal of Experimental Biology* **217** (Pt 24):4347-4355.
- 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.
- Sarà, G., J.M. Dean, D. D'Amato, G. Buscaino, A. Oliveri, S. Genovese, et al. 2007. Effect of boat noise on the behaviour of Bluefin tuna *Thunnus thynnus* in the Mediterranean Sea. *Marine Ecological Progress Series* **331**: 243-253.
- Scheffer, V.B. and J.W. Slipp. 1944. The harbor seal in Washington state. *Amer. Midl. Nat.* **33**:373-416.
- Scholik, A. R. and Yan, H. Y. (2001). Effects of underwater noise on auditory sensitivity of a cyprinid fish. *Hear. Res.* **152**, 17-24.
- Scholik, A. R. and Yan, H. Y. (2002). The effects of noise on the auditory sensitivity of the bluegill sunfish, *Lepomis macrochirus*. *Comp. Biochem. Physiol. A* **133**, 43-52.
- Sciacca, V., S. Viola, S. Pulvirenti, G. Riccobene, F. Caruso, E. De Domenico, and G. Pavan. 2016. Shipping noise and seismic airgun surveys in the Ionian Sea: potential impact on Mediterranean fin whale. *Proceedings of Meetings on Acoustics* **4ENAL 27(1)**:040010. <http://dx.doi.org/doi:10.1121/2.0000311>.
- Scott, T.M. and S.S. Sadove. 1997. Sperm whale, *Physeter macrocephalus*, sightings in the shallow shelf waters off Long Island, New York. *Mar. Mamm. Sci.* **13(2)**:317-321.
- Sears, R. and W.F. Perrin. 2018. Blue whale *Balaenoptera musculus*. p. 110-114 In: B. Würsig, J.G.M. Thewissen, and K.M. Kovacs (eds.), *Encyclopedia of Marine Mammals*, 3rd Edition. Academic Press/Elsevier, San Diego, CA. 1157 p.
- Senigaglia, V., F. Christiansen, L. Bejder, D. Gendron, D. Lundquist, D.P. Noren, A. Schaffar, J.C. Smith, R. Williams, E. Martinez, K. Stockin and D. Lusseau. 2016. Meta-analyses of whale-watching impact studies: comparisons of cetacean responses to disturbance. *Marine Ecology Progress Series* **542**: 251-263.
- Sepulveda, M., P. Inostroza, M. J. Perez-Alvarez, D. Oliva, and R. Moraga. (2009). Seasonal variation in the abundance of South American sea lions *Otaria flavescens* (Shaw, 1800) in Chanaral Island, Reserva Nacional Pinguino de Humboldt, Chile. *Revista de Biología Marina y Oceanografía*, **44(3)**, 685–689.
- Sergeant, D.E. 1977. Stocks of fin whales *Balaenoptera physalus* L. in the North Atlantic Ocean. *Rep. Int. Whal. Comm.* **27**:460-473.
- Seyle, H. 1950. Stress and the general adaptation syndrome. *British Medical Journal* **June** **17**:1383-1392.

- Shields, M.W., Lindell, J. and Woodruff, J., 2018. Declining spring usage of core habitat by endangered fish-eating killer whales reflects decreased availability of their primary prey. *Pacific Conservation Biology*, 24(2), pp.189-193.
- Sigler, M. F., S. M. Gende, and D. J. Csepp. (2017). Association of foraging Steller sea lions with persistent prey hot spots in southeast Alaska. *Marine Ecological Progress Series*, 571, 233–243.
- 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.
- Sills, J.M., B.L. Southall, and C. Reichmuth. 2017. The influence of temporally varying noise from seismic air guns on the detection of underwater sounds by seals. *J. Acoust. Soc. Am.* 141(2):996-1008.
- Simard, Y., F. Samaran, and N. Roy. 2005. Measurement of whale and seismic sounds in the Scotian Gully and adjacent canyons in July 2003. p. 97-115 In: K. Lee, H. Bain, and C.V. Hurley (eds.), *Acoustic monitoring and marine mammal surveys in The Gully and outer Scotian Shelf before and during active seismic surveys*. Environ. Stud. Res. Funds Rep. 151. 154 p. (Published 2007).
- Simmons, S. E., D. E. Crocker, R. M. Kudela, and D. P. Costa. (2007). Linking foraging behaviour of the northern elephant seal with oceanography and bathymetry at mesoscales. *Marine Ecological Progress Series*, 346, 265–275.
- SIO and NSF. 2006b. Environmental Assessment of a Planned Low-Energy Marine Seismic Survey by the Scripps Institution of Oceanography in the Northeast Indian Ocean, May-July 2007. LGL Report TA4410-1. Prepared by LGL Ltd. environmental research associates, King City, ONT. 21 December.
- Širović, A., E.M. Oleson, J. Calambokidis, S. Baumann-Pickering, A. Cummins, S. Kerosky, L. Roche, A. Simonis, S.M. Wiggins, and J.A. Hildebrand. 2012. Acoustic monitoring for marine mammals off Washington. In: E. Oleson and J. Hildebrand (eds.), *Marine mammal demographics off the outer Washington coast and near Hawaii*. Prepared for U.S. Navy. Naval Postgraduate School, Monterey, CA. NPS-OC-12-001CR April 2012. 69 p.
- Širović, A., S.C. Johnson, L.K. Roche, L.M. Varga, S.M. Wiggins, and J.A. Hildebrand. 2014. North Pacific right whales (*Eubalaena japonica*) recorded in the northeastern Pacific Ocean in 2013. *Mar. Mammal Sci.* <http://dx.doi.org/10.1111/mms.12189>.
- 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.
- Smultea, M.A. and M. Holst. 2003. Marine mammal monitoring during Lamont-Doherty Earth Observatory's seismic study in the Hess Deep area of the Eastern Equatorial Tropical Pacific, July 2003. LGL Report TA2822-16. Prepared by LGL Ltd. environmental research associates, King City, ONT, for L-DEO, Columbia University, Palisades, NY, and NMFS, Silver Spring, MD.
- Smultea, M.A., M. Holst, W.R. Koski, and S. Stoltz. 2004. Marine mammal monitoring during Lamont-Doherty Earth Observatory's seismic program in the Southeast Caribbean Sea and adjacent Atlantic Ocean, April-June 2004. LGL Report TA2822-26. Prepared by

- LGL Ltd. environmental research associates, King City, ONT, for L-DEO, Columbia University, Palisades, NY, and NMFS, Silver Spring, MD.
- Sole, M., M. Lenoir, M. Durfort, M. Lopez-Bejar, A. Lombarte, and M. Andre. 2013. Ultrastructural damage of *Loligo vulgaris* and *Illex coindetii* statocysts after low frequency sound exposure. *PLoS ONE* **8** (10):e78825.
- Song, J., D.A. Mann, P.A. Cott, B.W. Hanna, and A.N. Popper. 2008. The inner ears of northern Canadian freshwater fishes following exposure to seismic air gun sounds. *Journal of the Acoustical Society of America* **124** (2):1360-1366.
- 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., Nowacek, D.P., Miller, P.J. and Tyack, P.L., 2016. Experimental field studies to measure behavioral responses of cetaceans to sonar. *Endangered Species Research*, **31**, pp.293-315.
- 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.
- Stacey, P.J. and R.W. Baird. 1991. Status of the false killer whale, *Pseudorca crassidens*, in Canada. *Can. Field-Nat.* **105**(2):189-197.
- Stafford, K.M. 2003. Two types of blue whale calls recorded in the Gulf of Alaska. *Mar. Mamm. Sci.* **19**(4):682-693.
- Stafford, K.M., D.K. Mellinger, S.E. Moore, and C.G. Fox. 2007. Seasonal variability and detection range modeling of baleen whale calls in the Gulf of Alaska, 1999–2002. *J. Acoust. Soc. Am.* **122**(6):3378-3390.
- Stafford, K.M., J.J. Citta, S.E. Moore, M.A. Daher, and J.E. George. 2009. Environmental correlates of blue and fin whale call detections in the North Pacific Ocean from 1997 to 2002. *Mar. Ecol. Progr. Ser.* **395**:37-53.
- Stafford, K.M., S.L. Nieukirk, and C.G. Fox. 1999. Low-frequency whale sounds recorded on hydrophones moored in the eastern tropical Pacific. *J. Acoust. Soc. Am.* **106**(6):3687-3698.
- Stafford, K.M., S.L. Nieukirk, and C.G. Fox. 2001. Geographic and seasonal variation of blue whale calls in the North Pacific. *J. Cetac. Res. Manage.* **3**(1):65-76.
- Stanley, J.A., C.A. Radford, and A.G. Jeffs. 2011. Behavioural response thresholds in New Zealand crab megalopae to ambient underwater sound. *PLoS ONE* **6**(12):e28572.
- Stewart, B.S. and H.R. Huber. 1993. *Mirounga angustirostris*. *Mammal. Species* **449**:1-10.
- Stewart, B.S. and R.L. DeLong. 1995. Double migrations of the northern elephant seal, *Mirounga angustirostris*. *J. Mammal.* **76**(1):196-205.
- Stewart, B.S. and S. Leatherwood. 1985. Minke whale *Balaenoptera acutorostrata* Lacépède, 1804. p. 91-136 *In*: S.H. Ridgway and R. Harrison (eds.), *Handbook of marine mammals*, Vol. 3: The sirenians and baleen whales. Academic Press, London, UK. 362 p.
- Stewart, B.S., B.J. Le Boeuf, P.K. Yochem, H.R. Huber, R.L. DeLong, R.J. Jameson, W. Sydeman, and S.G. Allen. 1994. History and present status of the northern elephant seal population. *In*: B.J. Le Boeuf and R.M. Laws (eds.), *Elephant seals*. Univ. Calif. Press, Los Angeles, CA.

- Stone, C.J. 2015. Marine mammal observations during seismic surveys from 1994–2010. JNCC Rep. No. 463a. 64 p.
- 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.
- Streever, B., S.W. Raborn, K.H. Kim, A.D. Hawkins, and A.N. Popper. 2016. Changes in fish catch rates in the presence of air gun sounds in Prudhoe Bay, Alaska. *Arctic* **69** (4):346.
- Tal, D., H. Shachar-Bener, D. Hershkovitz, Y. Arieli, and A. Shupak. 2015. Evidence for the initiation of decompression sickness by exposure to intense underwater sound. *Journal of Neurophysiology* 114 (3):1521-1529
- Turnock, B.J. and T.J. Quinn. 1991. The effect of responsive movement on abundance estimation using the line transect sampling. *Biometrics* 47:701-715.
- Tashmukhambetov, A.M., G.E. Ioup, J.W. Ioup, N.A. Sidorovskaia, and J.J. Newcomb. 2008. Three-dimensional seismic array characterization study: Experiment and modeling. *Journal of the Acoustical Society of America* **123** (6):4094-4108.
- Teilmann, J., D.M. Wisniewska, M. Johnson, L.A. Miller, U. Siebert, R. Dietz, S. Sveegaard, A. Galatius, and P.T. Madsen. 2015. Acoustic tags on wild harbour porpoises reveal context-specific reactions to ship noise. In: 18. Danske Havforskermøde 2015, 28-30 January 2015.
- Tennessen, J.B. and S.E. Parks. 2016. Acoustic propagation modeling indicates vocal compensation in noise improves communication range for North Atlantic right whales. *Endang. Species Res.* 30:225-237.
- Terhune, J.M. and T. Bosker. 2016. Harp seals do not increase their call frequencies when it gets noisier. p. 1149-1153 In: A.N. Popper and A. Hawkins (eds.), *The effects of noise on aquatic life II*. Springer, New York, NY. 1292 p.
- Thode, A.M., K.H. Kim, S.B. Blackwell, C.R. Greene, Jr., C.S. Nations, T.L. McDonald, and A.M. Macrander. 2012. Automated detection and localization of bowhead whale sounds in the presence of seismic airgun surveys. *J. Acoust. Soc. Am.* 131(5):3726-3747.
- Tolstoy, M., J. Diebold, L. Doermann, S. Nooner, S.C. Webb, D.R. Bohnenstiehl, et al. 2009. Broadband calibration of the R/V Marcus G. Langseth four-string seismic sources. *Geochemistry Geophysics Geosystems* 10 (8).
- Tyack, P.L. and V.M. Janik. 2013. Effects of noise on acoustic signal production in marine mammals. p. 251-271 In: H. Brumm (ed.), *Animal communication and noise*. Springer, Berlin, Heidelberg, Germany. 453 p.
- US Navy. 2019. U.S. Navy Marine Species Density Database Phase III for the Northwest Training and Testing Study Area. NAVFAC Pacific Technical Report. Naval Facilities Engineering Command Pacific, Pearl Harbor, HI. 262 p.
- US Navy. 2015. Final environmental impact statement/overseas environmental impact statement for northwest training and testing activities. U.S. Dept. of the Navy in cooperation with the National Marine Fisheries Service and United States Coast Guard. 1004 p. Accessed in March 2017 at <http://nwtteis.com/DocumentsandReferences/NWTTDocuments/FinalEISOEIS.aspx>.
- US Navy. 2017. Marine mammal strandings associated with U.S. Navy sonar activities. Space and Naval Warfare Systems Center Pacific, San Diego: 47.
- 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.

- Von Saunder, A. and J. Barlow. 1999. A report of the Oregon, California and Washington line-transect experiment (ORCAWALE) conducted in west coast waters during summer/fall 1996. NOAA Tech. Memo. NMFS-SWFSC-264. Nat. Mar. Fish. Serv, Southwest Fish. Sci. Center, La Jolla, CA. 40 p.
- Wade, P.R. and T. Gerrodette. 1993. Estimates of cetacean abundance and distribution in the eastern tropical Pacific. Rep. Int. Whal. Comm. 43:477-493.
- Wade, P.R., A. Kennedy, R. LeDuc, J. Barlow, J. Carretta, K. Shelden, W. Perryman, R. Pitman, K. Robertson, B. Rone, J.C. Salinas, A. Zerbini, R.L. Brownell, Jr., and P. Clapham. 2011a. The world's smallest whale population. **Biol. Lett.** 7:83-85.
- Waite, J.M., K. Wynne, and D.K. Mellinger. 2003. Documented sighting of a North Pacific right whale in the Gulf of Alaska and post-sighting acoustic monitoring. **Northw. Nat.** 84:38-43.
- Walker, J.L., C.W. Potter, and S.A. Macko. 1999. The diets of modern and historic bottlenose dolphin populations reflected through stable isotopes. *Mar. Mamm. Sci.* 15(2):335-350.
- Wang, M.C., W.A. Walker, K.T. Shao, and L.S. Chou. 2002. Comparative analysis of the diets of pygmy sperm whales and dwarf sperm whales in Taiwanese waters. *Acta Zool. Taiwan* 13(2):53-62.
- Ward, W.D. 1997. Effects of high-intensity sound. Pages 1497-1507 in M.J. Crocker, ed. *Encyclopedia of acoustics, Volume III.* John Wiley & Sons, New York.
- Wardle, C.S., T.J. Carter, G.G. Urquhart, A.D.F. Johnstone, A.M. Ziolkowski, G. Hampson, and D. Mackie. 2001. Effects of seismic air guns on marine fish. *Continental Shelf Research* 21:1005-1027.
- Wartzok, D., 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.
- Wasser, S.K., Lundin, J.I., Ayres, K., Seely, E., Giles, D., Balcomb, K., Hempelmann, J., Parsons, K. and Booth, R., 2017. Population growth is limited by nutritional impacts on pregnancy success in endangered Southern Resident killer whales (*Orcinus orca*). *PLoS One*, 12(6).
- Watkins, W.A. and K.E. Moore. 1982. An underwater acoustic survey for sperm whales (*Physeter catodon*) and other cetaceans in the southeast Caribbean. *Cetology* 46:1-7.
- Watkins, W.A., J.E. George, M.A. Daher, K. Mullin, D.L. Martin, S.H. Haga, and N.A. DiMarzio. 2000b. Whale call data from the North Pacific, November 1995 through July 1999: occurrence of calling whales and source locations from SOSUS and other acoustic systems. Tech. Rep. WHOI-00-02. Woods Hole Oceanographic Inst., Woods Hole, MA. 160 p.
- Watkins, W.A., M.A. Daher, G.M. Reppucci, J.E. George, D.L. Martin, N.A. DiMarzio, and D.P. Gannon. 2000a. Seasonality and distribution of whale calls in the North Pacific. *Oceanography* 13:62-67.
- Weilgart, L.S. 2007. A brief review of known effects of noise on marine mammals. *Int. J. Comp. Psychol.* 20:159-168.
- Weir, C.R. 2007. Observations of marine turtles in relation to seismic airgun sound off Angola. *Marine Turtle Newsletter* 116:17-20.
- Weir, C.R. and S.J. Dolman. 2007. Comparative review of the regional marine mammal mitigation guidelines implemented during industrial seismic surveys, and guidance towards a worldwide standard. *J. Int. Wildl. Law Policy* 10(1):1-27.

- Weise, M. J., D. P. Costa, and R. M. Kudela. 2006. Movement and diving behavior of male California sea lion (*Zalophus californianus*) during anomalous oceanographic conditions of 2005 compared to those of 2004. *Geophys. Res. Lett.* 33, L22S10. <http://dx.doi.org/doi:10.1029/2006GL027113>.
- Weise, M. J., J. T. Harvey, and D. P. Costa. (2010). The role of body size in individual-based foraging strategies of a top marine predator. *Ecology*, 91(4), 1004–1015.
- Weller, D.W., A. Klimek, A.L. Bradford, J. Calambokidis, A.R. Lang, B. Gisborne, A.M. Burdin, W. Szanislo, J. Urbán, A.G.G. Unzueta, S. Swartz, and R.L. Brownell, Jr. 2012. Movements of gray whales between the western and eastern North Pacific. **Endang. Species Res.** 18:193-199.
- Weller, D.W., A.M. Burden, B. Würsig, B.L. Taylor, and R.L. Brownell Jr. 2002. The western gray whale: A review of past exploitation, current status and potential threats. *Journal of Cetacean Research and Management* 4 (1):7-12.
- Weller, D.W., G.A. Tsidulko, Y.V. Ivashchenko, A.M. Burdin, and R.L. Brownell Jr. 2006. A re-evaluation of the influence of 2001 seismic surveys on western gray whales off Sakhalin Island, Russia. *International Whaling Commission Scientific Committee*: 9.
- Weller, D.W., S. Bettridge, R.L. Brownell Jr., J.L. Laake, J.E. Moore, P.E. Rosel, B.L. Taylor, and P.R. Wade. 2013. Report of the National Marine Fisheries Service Gray Whale Stock Identification Workshop. U.S. Dep. Commer., NOAA Tech. Memo. NOAA-TM-NMFS-SWFSC-507.
- Wells, R.S. and M.D. Scott. 2009. Common bottlenose dolphin *Tursiops truncatus*. p. 249-255 In: W.F. Perrin, B. Würsig, and J.G.M. Thewissen (eds.), *Encyclopedia of marine mammals*, 2nd edit. Academic Press, San Diego, CA. 1316 p.
- Whitehead, H. 2003. Sperm whales: social evolution in the ocean. University of Chicago Press, Chicago, IL. 431 p.
- Whitehead, H. 2009. Sperm whale *Physeter macrocephalus*. p. 1091-1097 In: W.F. Perrin, B. Würsig, and J.G.M. Thewissen (eds.), *Encyclopedia of marine mammals*, 2nd edit. Academic Press, San Diego, CA. 1316 p.
- Whitehead, H. and S. Waters. 1990. Social organization and population structure of sperm whales off the Galápagos Islands, Ecuador (1985–1987). *Rep. Int. Whal. Comm. Spec. Iss.* 12:249-257.
- Whitehead, H., S. Waters, and T. Lyrholm. 1992. Population structure of female and immature sperm whales (*Physeter macrocephalus*) off the Galápagos Islands. *Can. J. Fish. Aquatic Sci.* 49(1):78-84.
- Wiles, G. J. (2015). *Periodic Status Review for the Steller Sea Lion*. Olympia, WA: Washington Department of Fish and Wildlife.
- Williams, R. and L. Thomas. 2007. Distribution and abundance of marine mammals in the coastal waters of British Columbia, Canada. *J. Cet. Res. Manage.* 9(1):15-28.
- Williams, R., A.W. Trites and D.E. Bain. 2002b. Behavioural responses of killer whales (*Orcinus orca*) to whale-watching boats: opportunistic observations and experimental approaches. *Journal of Zoology* 256: 255-270.
- Williams, R., D. Lusseau and P.S. Hammond. 2006. Estimating relative energetic costs of human disturbance to killer whales (*Orcinus orca*). *Biological Conservation* 133: 301-311.
- Williams, R., D.E. Bain, J.C. Smith and D. Lusseau. 2009a. Effects of vessels on behaviour patterns of individual southern resident killer whales *Orcinus orca*. *Endangered Species Research* 6: 199-209.

- Williams, R., D.E. Bain, J.K.B. Ford and A.W. Trites. 2002a. Behavioural responses of male killer whales to a 'leapfrogging' vessel. *Journal of Cetacean Research and Management* 4: 305-310.
- Williams, T.M, W.A. Friedl, M.L. Fong, R.M. Yamada, P. Sideivy, and J.E. Haun. 1992. Travel at low energetic cost by swimming and wave-riding bottlenose dolphins. *Nature* 355(6363):821-823.
- Willis, P.M. and R.W. Baird. 1998. Sightings and strandings of beaked whales on the west coast of Canada. *Aquatic Mamm.* 24(1):21-25.
- Winn, H.E. and N.E. Reichley. 1985. Humpback whale *Megaptera novaeangliae* (Borowski, 1781). p. 241-273 *In*: S.H. Ridgway and R. Harrison (eds.), *Handbook of marine mammals*, Vol. 3: The sirenians and baleen whales. Academic Press, London, UK. 362 p.
- Wisniewska, D.M., M. Johnson, J. Teilmann, U. Siebert, A. Galatius, R. Dietz, and P.T. Madsen. 2018. High rates of vessel noise disrupt foraging in wild harbour porpoises (*Phocoena phocoena*). *Proc. R. Soc. B* 285: 20172314.
- Wittekind, D., J. Tougaard, P. Stolz, M. Dähne, K. Lucke, C.W. Clark, S. von Benda-Beckmann, M. Ainslie, and U. Siebert. 2016. Development of a model to assess masking potential for marine mammals by the use of airguns in Antarctic waters. p. 1243-1249 *In*: A.N. Popper and A. Hawkins (eds.), *The effects of noise on aquatic life II*. Springer, New York, NY. 1292 p.
- Wright, A.J. 2014. Reducing impacts of human ocean noise on cetaceans: knowledge gap analysis and recommendations. 98 p. World Wildlife Fund Global Arctic Programme, Ottawa, Canada.
- Wright, A.J. and A.M. Consentino. 2015. JNCC guidelines for minimizing the risk of injury and disturbance to marine mammals from seismic surveys: we can do better. *Mar. Poll. Bull.* 100(1):231-239. <https://doi.org/10.1016/j.marpolbul.2015.08.045>.
- Wright, B. E., M. J. Tennis, and R. F. Brown. (2010). Movements of Male California Sea Lions Captured in the Columbia River. *Northwest Science*, 84(1), 60–72.
- Würsig, B., S.K. Lynn, T.A. Jefferson, and K.D. Mullin. 1998. Behaviour of cetaceans in the northern Gulf of Mexico relative to survey ships and aircraft. *Aquatic Mamm.* 24(1):41-50.
- 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.
- Yelverton, J.T., Richmond, D.R., Fletcher, E.R. and Jones, R.K., 1973. Safe distances from underwater explosions for mammals and birds. Lovelace Foundation For Medical Education and Research, Albuquerque, NM.
- Yochem, P. K., B. S. Stewart, R. L. DeLong, and D. P. DeMaster. (1987). Diel haul-out patterns and site fidelity of harbor seals (*Phoca vitulina richardsi*) on San Miguel Island, California, in autumn. *Marine Mammal Science*, 3(4), 323–332.
- Yochem, P.K. and S. Leatherwood. 1985. Blue whale. p. 193-240 *In*: S.H. Ridgway and R. Harrison (eds.), *Handbook of marine mammals*, Vol. 3: The sirenians and baleen whales. Academic Press, New York, NY. 362 p.
- 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.

Zimmer, W.M.X., M.P. Johnson, P.T. Madsen, and P.L. Tyack. 2005. Echolocation clicks of free-ranging Cuvier's beaked whales (*Ziphius cavirostris*). *Journal of the Acoustical Society of America* **117** (6):3919-3927.

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.