

## References: Alameda Marina Shoreline Improvement Project

- Ahroon, W.A., R.P. Hamernik, and S.-F., Lei. 1996. The effects of reverberant blast waves on the auditory system. *Journal of the Acoustical Society of America* 100:2247-2257.
- Allen, B. M., and R. P. Angliss. 2013. Alaska Marine Mammal Stock Assessments, 2012. U.S. Department of Commerce, NOAA Technical Memorandum NMFS-AFSC-245. American National Standards Institute (ANSI). 1986. Methods of measurement for impulse noise 3 (ANSI S12.7-1986). Acoustical Society of America, Woodbury, NY.
- American National Standards Institute (ANSI). 1995. Bioacoustical Terminology (ANSI S3.20-1995). Acoustical Society of America, Woodbury, NY.
- Antonelis, G. A., B. S. Stewart, and W. F. Perryman. 1990. Foraging Characteristics of Female Northern Fur Seals (*Callorhinus ursinus*) and California Sea Lions (*Zalophus californianus*). *Canadian Journal of Zoology* 68:150–158.
- 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 p.
- Au, W.W.L. and M. Hastings. 2008. Principles of Marine Bioacoustics. Springer-Verlag, New York.
- Barlow, J. P., and D. Hanan. 1995. An Assessment of the Status of Harbor Porpoise in Central California. *Reports of the International Whaling Commission*, Special Issue 16:123–140.
- Bearzi, G., E. Politi, G. Notarbartolo di Sciara. 1999. Diurnal behavior of free-ranging bottlenose dolphins in the Kvarnerić (Northern Adriatic Sea). *Marine Mammal Science* 15: 1065–1097.
- 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.
- Bograd, S. J., I. Schroeder, N. Sarkar, X. Qui, W. J. Sydeman, and F. B. Schwing. 2009. Phenology of coastal upwelling in the California Current. *Geophysical Research Letters* 36: L01602.
- California Department of Transportation (Caltrans). 2004. *Marine Mammal and Acoustic Monitoring for the Eastbound Structure*. Prepared by SRS Technologies, Illingworth & Rodkin, and Parsons Brinckerhoff.
- California Department of Transportation (Caltrans). 2015. Buehler, D., R. Oestman, J. Reyff, K. Pommerenck, B. Mitchell. 2015. Technical Guidance for Assessment and Mitigation of the Hydroacoustic Effects of Pile Driving on Fish. Written for the California Dept. of Transportation, Div. of Environmental Analysis, Environmental Engineering, Hazardous Waste, Air, Noise, Paleontology Office. Sacramento, CA.
- California Department of Transportation (Caltrans). 2018a. *San Francisco–Oakland Bay Bridge East Span Seismic Safety Project Marine Foundation Removal Project 2017 Post-Blast Marine Mammal Report*. EA 04-013574.

- California Department of Transportation (Caltrans). 2019. *Pier Retention Pile Driving and Pier Removal, Marine Mammal Monitoring Report*. Prepared by AECOM. EA 04-013574.
- Carlson, T.J., D.L. Woodruff, G.E. Johnson, N.P. Kohn, G.R. Ploskey, M.A. Weiland, et al. 2005. Hydroacoustic measurements during pile driving at the Hood Canal Bridge, September through November 2004. PNWD-3621, Prepared by Battelle Marine Sciences Laboratory for the Washington State Department of Transportation: 165.
- Carretta, J. V., K. A. Forney, and S. R. Benson. 2009. *Preliminary Estimates of Harbor Porpoise Abundance in California Waters from 2002 to 2007*. NOAA Technical Memorandum NOAA-TM-NMFSSWFSC-435.
- 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. 2019. 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. 382 p. Available online: <https://www.fisheries.noaa.gov/national/marine-mammal-protection/marine-mammal-stock-assessment-reports-region>
- 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. Unpublished. Draft U.S. Pacific Marine Mammal Stock Assessments: 2019. NOAA Tech. Memo. NOAA-TM-NMFS-SWFSC-617. Nat. Mar. Fish. Serv., Southwest Fish. Sci. Center, La Jolla, CA. 407 p. Available online: <https://www.fisheries.noaa.gov/national/marine-mammal-protection/marine-mammal-stock-assessment-reports-region>
- Carretta, J.V., E.M. Oleson, D.W. Weller, A.R. Lang, K.A. Forney, J. . Baker, B. Hanson, K. Martien, M.M. Muto, A.J. Orr, H. Huber, M.S. Lowry, J. Barlow, D. Lynch, L. Carswell, and R.L. Brownwell Jr. D.K. Mattila. 2014. U.S. Pacific Marine Mammal Stock Assessments: 2013. NOAA Tech. Memo. NOAA-TM-NMFS-SWFSC-532. Nat. Mar. Fish. Serv., Southwest Fish. Sci. Center, La Jolla, CA. 382 p. Available online: <https://www.fisheries.noaa.gov/national/marine-mammal-protection/marine-mammal-stock-assessment-reports-region>
- Croll, D.A., C.W. Clark, J. Calambokidis, W.T. Ellison, and B.R. Tershy. 2001. Effect of anthropogenic low-frequency noise on the foraging ecology of Balaenoptera whales. *Animal Conservation* 4(1):13-27.
- Casper, B.M., M.B. Halvorsen, F. Matthews, T.J. Carlson, and A.N. Popper. 2013. Recovery of barotrauma injuries resulting from exposure to pile driving sound in two sizes of hybrid striped bass. *PLoS ONE* 8 (9):e73844.
- Chivers, S. J., A. E. Dizon, P. J. Gearin, and K. M. Robertson. 2002. Small-scale population structure of eastern North Pacific harbour porpoises (*Phocoena phocoena*) indicated by molecular genetic analysis. *Journal of Cetacean Research Management* 4:111–122.
- Codde, S. and S. Allen. 2018. *Pacific harbor seal (Phoca vitulina richardii) monitoring at Point Reyes National Seashore and Golden Gate National Recreation Area: 2016 annual report*. Natural Resource Report. NPS/SFAN/NRR–2018/1719. National Park Service. Fort Collins, Colorado.

- 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.
- Defran, R. H. and D. W. Weller. 1999. Occurrence, distribution, site fidelity, and school size of bottlenose dolphins (*Tursiops truncatus*) off San Diego, California. *Marine Mammal Science* **15**: 366–380.
- Duffy, L. D. 2015. *Patterns of Habitat Use by Harbor Porpoise (Phocoena phocoena) in Central San Francisco Bay*. Master's thesis, San Francisco State University.
- Everitt, R.D., C.H. Fiscus, and R.L. DeLong. 1980. Northern Puget Sound marine mammals. Interagency Energy/Environment R&D Program Report EPA-600/7-80-139, Prepared by National Marine Fisheries Service for Environmental Protection Agency 150p. Finneran, J.J. 2015. Noise-induced hearing loss in marine mammals: A review of temporary threshold shift studies from 1996 to 2015. *Journal of the Acoustical Society of America* **138**:1702-1726.
- Fair, P.A. and P.R. Becker. 2000. Review of stress in marine mammals. *Journal of Aquatic Ecosystem Stress and Recovery* **7** (4):335-354.
- Finneran, J.J. 2016. Auditory weighting functions and TTS/PTS exposure functions for marine mammals exposed to underwater noise. Technical Report. San Diego: SPAWAR.
- Finneran, J.J., D.A. Carder, C.E. Schlundt, and S.H. Ridgway. 2005. Temporary threshold shift in bottlenose dolphins (*Tursiops truncatus*) exposed to mid-frequency tones. *Journal of the Acoustical Society of America* **118** (4):2696-2705.
- Finneran, J.J. 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., C.E. Schlundt, D.A. Carder, J.A. Clark, J.A. Young, J.B. Gaspin, and S.H. Ridgway. 2000. Auditory and behavioral responses of bottlenose dolphins (*Tursiops truncatus*) and a beluga whale (*Delphinapterus leucas*) to impulsive sounds resembling distant signatures of underwater explosions. *Journal of the Acoustical Society of America* **108**:417-431.
- Finneran, J.J., C.E. Schlundt, R. Dear, D.A. Carder, and S.H. Ridgway. 2002. Temporary shift in masked hearing thresholds in odontocetes after exposure to single underwater impulses from a seismic watergun. *Journal of the Acoustical Society of America* **111**:2929-2940.
- Fay, R.R., A.N. Popper, and J.F. Webb. 2008. Introduction to fish bioacoustics. In: Webb, J.F., R.R. Fay, and A.N. Popper, eds. *Fish Bioacoustics*. Springer Handbook of Auditory Research **32**:1-15.
- Fay, R.R. 2009. Soundscapes and the sense of hearing of fishes. *Integrative Zoology* **4**: 26-32.
- 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.
- Gelatt, T. S., and R. Gentry. 2018. Northern Fur Seal (*Callorhinus ursinus*). In *Encyclopedia of Marine Mammals*, 3rd Edition, B. Würsig, J. G. M. Thewissen, and K. Kovacs (editors), 645–648. Academic Press.

- Gentry, R. L. 1998. *Behavior and Ecology of the Northern Fur Seal*. Princeton, NJ: Princeton University Press.
- Greenbusch Group. 2018. Pier 62 Project Draft Acoustic Monitoring Season 1 (2017/2018) Report 3 (NWS-2016-WRD, WCR-2016-5583, 01EWF00-2016-F-1325). Prepared for City of Seattle Department of Transportation. April 9, 2018.
- Greig, D. J., and S. G. Allen. 2015. *Case Study Harbor Seal (Phoca vitulina)*. Science Foundation Chapter 5 Appendix 5.1. Baylands Ecosystem Habitat Goals Science Update (BEHGU).
- Grigg, E. K., S. G. Allen, D. E. Craven-Green, A. P. Klimley, H. Markowitz, D. L. Elliott-Fisk. 2012. Foraging distribution of Pacific harbor seals (*Phoca vitulina richardii*) in a highly impacted estuary. *Journal of Mammalogy* 93: 282–293.
- Gulland, F. M. D., F. B. Nutter, K. Dixon, J. Calambokidis, G. Schorr, J. Barlow, T. Rowles, S. Wilkin, T. Spradlin, L. Gage, J. Mulsow, C. Reichmuth, M. Moore, J. Smith, P. Folkens, S. F. Hanser, S. Jang, and C. S. Baker. 2008. Health Assessment, Antibiotic Treatment, and Behavioral Responses to Herding Efforts of a Cow-Calf Pair of Humpback Whales (*Megaptera novaeangliae*) in the Sacramento River Delta, California. *Aquatic Mammals* 34:182–192.
- Hanan, D. A. 1996. *Dynamics of Abundance and Distribution for Pacific Harbor Seal, Phoca vitulina richardsi, on the Coast of California*. Ph.D. Dissertation, University of California, Los Angeles. 158 pp.
- Hansen, L. J. and R. H. Defran. 1990. A comparison of photo-identification studies of California coastal bottlenose dolphins. In *Individual Recognition of Cetaceans: Use of Photo-Identification and Other Techniques to Estimate Population Parameters*. P. S. Hammond, S. A. Mizroch, and G. P. Donovan (eds.), pgs 101–104.
- Hanson, M. T. and R. H. Defran. 1993. The behaviour and feeding ecology of Pacific coast bottlenose dolphin, *Tursiops truncatus*. *Aquatic Mammals* 19:127–142.
- Harvey, J. T. and D. Goley. 2011. Determining a correction factor for aerial surveys of harbor seals in California. *Marine Mammal Science* 27: 719–735.
- Heath, C. B., and W. F. Perrin. 2008. California, Galapagos and Japanese Sea Lions *Zalophus californianus*, *Z. wollebaeki* and *Z. japonicus*. In *Encyclopedia of Marine Mammals (second edition)*, W. F. Perrin, B. Würsig, and J. G. M. Thewissen (editors), pgs 170–75.
- Herder, M. J. 1986. *Seasonal movements and hauling site fidelity of harbor seals, Phoca vitulina richardsi, tagged at the Russian River, California*. MS Thesis. Humbolt State University. 52 pages.
- Huber, H. R., S. J. Jeffries, R. F. Brown, R. L. DeLong, and G. VanBlaricom. 2001. Correcting Aerial Survey Counts of Harbor Seals (*Phoca vitulina richardsi*) in Washington and Oregon. *Marine Mammal Science* 17:276–293.
- Halvorsen, M.B., D.G. Zeddies, W.T. Ellison, D.R. Chicoine, and A.N. Popper. 2012a. Effects of mid-frequency active sonar on hearing in fish. *Journal of the Acoustical Society of America* **131** (1):599-607.

- Halvorsen, M.B., B.M. Casper, C.M. Woodley, T.J. Carlson, and A.N. Popper. 2012b. Threshold for onset of injury in chinook salmon from exposure to impulsive pile driving sounds. *PLoS ONE* 7 (6).
- Hastings, M.C., and A.N. Popper. 2005. Effects of sound on fish. Technical report for Jones and Stokes to California Department of Transportation.
- Hemilä, S., S. Nummela, A. Berta, and T. Reuter. 2006. High-frequency hearing in phocid and otariid pinnipeds: An interpretation based on inertial and cochlear constraints (L). *Journal of the Acoustical Society of America* 120(6):3463-3466.
- Henderson, D., B. Hu, and E. Bielefeld. 2008. Patterns and mechanisms of noise-induced cochlear pathology. pp. 195-217 In Schacht, J., A.N. Popper, and R.R Fay (Eds.) *Auditory Trauma, Protection, and Repair*. New York: Springer.
- Holberton, R.L., B. Helmuth, and J.C. Wingfield. 1996. The corticosterone stress response in gentoo and king penguins during the non-fasting period. *Condor* **98** (4):850-854.
- Hood, L.C., P.D. Boersma, and J.C. Wingfield. 1998. The adrenocortical response to stress in incubating Magellanic penguins (*Spheniscus magellanicus*). *Auk* **115** (1):76-84.
- Jessop, T.S., A.D. Tucker, C.J. Limpus, and J.M. Whittier. 2003. Interactions between ecology, demography, capture stress, and profiles of corticosterone and glucose in a free-living population of Australian freshwater crocodiles. *General and Comparative Endocrinology* **132** (1):161-170.
- Jorgenson, J.K., and E.C. Gyselman. 2009. Hydroacoustic measurements of the behavioral response of arctic riverine fishes to seismic airguns. *Journal of the Acoustical Society of America* **126** (3):1598-1606.
- Jefferson, T. A., S. Leatherwood, and M. A. Webber. 1993. *FAO Species Identification Guide: Marine Mammals of the World*. Rome: Food and Agriculture Organization of the United Nations.
- Kastak, D., J. Mulsow, A. Ghaul, and C. Reichmuth. 2008. Noise-induced permanent threshold shift in a harbor seal: Abstract. *Journal of the Acoustical Society of America* 123:2986.
- Kastelein, R.A., J. Schop, R. Gransier, and L. Hoek. 2014. Frequency of greatest temporary hearing threshold shift in harbor porpoise (*Phocoena phocoena*) depends on the noise level. *Journal of the Acoustical Society of America* 136:1410-1418.
- 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.
- Keener, B., I. Sczepaniack, J. Stern, and M. Webber. 2012. *Harbor Porpoises of the San Francisco Bay*. Report of Golden Gate Cetacean Research.
- Krausman, P.R., L.K. Harris, C.L. Blasch, K.K.G. Koenen, and J. Francine. 2004. Effects of military operations on behavior and hearing of endangered Sonoran pronghorn. *Wildlife Monographs* **157**:1-41.
- Kryter, K.D., 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.

- 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.
- Lusseau, D. and L. Bejder. 2007. The long-term consequences of short-term responses to disturbance experiences from whale watching impact assessment. *International Journal of Comparative Psychology* **201**(2-3):228-236.
- London J. M., M. M. Lance, and S. J. Jeffries. 2001. *Observations of harbor seal predation on Hood Canal salmonids from 1998 to 2000. Final Report: Studies of expanding pinniped populations.* NOAA Grant No. NA17FX1630, WDFW, PSMFC Contract No. 02-15. 20 p.
- 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.* Administrative Report LJ-92-32. La Jolla, CA: Southwest Fisheries Science Center, National Marine Fisheries Service.
- Lowry, M. S., and K. A. Forney. 2005. Abundance and Distribution of California Sea Lions (*Zalophus californianus*) in Central and Northern California during 1998 and Summer 1999. *Fisheries Bulletin* **103**:331–343.
- Lowry, M. S., J. V. Carretta, and K. A. Forney. 2008. *Pacific harbor seal census in California during May-July 2002 and 2004.* *California Fish and Game* **94**: 180–193.
- Lowther-Thieleking, J., F. Archer, A. Lang, and D. Weller. 2015. Genetic Differentiation among Coastal and Offshore Bottlenose Dolphins, *Tursiops truncatus*, in the Eastern North Pacific Ocean. *Marine Mammal Science* **31**:1–20.
- Madsen, P.T., M. Johnson, P.J.O. Miller, N.A. Soto, J. Lynch, and P. Tyack. 2006. Quantitative measures of air-gun pulses recorded on sperm whales (*Physeter macrocephalus*) using acoustic tags during controlled exposure experiments. *Journal of the Acoustical Society of America* **120**(4):2366-2379.
- Manugian, S. C., D. J. Greig, D. Lee, B. H. Becker, S. Allen, M. S. Lowry, and J. T. Harvey. 2017. Survival Probabilities and Movements of Harbor Seals in Central California. *Marine Mammal Science* **33**:154-171.
- Martichoux, Alix. 2017. *Otters, seals and sea lions make rare appearances in Oakland's waterways.* SFGATE.
- Mate, B. R., K. A. Rossbach, S. L. Nieukirk, R. S. Wells, A. B. Irvine, M. D. Scott, and A. J. Read. 1995. Satellite-monitored movements and dive behavior of a bottlenose dolphin (*Tursiops truncatus*) in Tampa Bay, Florida. *Marine Mammal Science* **11**: 452–463.
- Melin, S. R., and R. L. DeLong. 2000. At-sea distribution and diving behavior of California sea lion females from San Miguel Island, California. *Proceedings of the Fifth California Islands Symposium.* Santa Barbara: Santa Barbara Museum of Natural History, pp. 407–412.
- Melin, S. R., R. L. DeLong, and D. B. Siniff. 2008. The effects of El Niño on the foraging behavior of lactating California sea lions (*Zalophus californianus*) during the nonbreeding season. *Canadian Journal of Zoology*: 192–206.

- Miller, J.D. 1974. Effects of noise on people. *Journal of the Acoustical Society of America* 56:729-764.
- 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.
- 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. Department of Commerce, NOAA Tech. Memo. NMFS-AFSC-393, 390 pp. June 2019. <http://www.afsc.noaa.gov/Publications/AFSC-TM/NOAA-TM-AFSC-393.pdf>
- 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. Department of Commerce, Accessed at <https://www.fisheries.noaa.gov/webdam/download/99536349>
- National Marine Fisheries Service (NMFS). 2018. 2018 Revisions to: Technical Guidance for Assessing the Effects of Anthropogenic Sound on Marine Mammal Hearing (Version 2.0): Underwater Acoustic Thresholds for Onset of Permanent and Temporary Threshold Shifts. U.S. Department of Commerce, NOAA. NOAA Technical Memorandum NMFS-OPR-59, 169 p
- National Marine Fisheries Service (NMFS). 2019a. *Marine Mammal Health and Stranding Response Database, California Academy of Sciences (CAS) Level A Data 2006 to 2019*.
- National Marine Fisheries Service (NMFS). 2019b. *Marine Mammal Health and Stranding Response Program, The Marine Mammal Center Data 2006–2019*.
- National Institute for Occupational Safety and Health (NIOSH). 1998. Criteria for a recommended standard: Occupational noise exposure. United States Department of Health and Human Services, Cincinnati, OH.
- National Oceanic and Atmospheric Administration (NOAA). N.D. Cetacean Sound and Mapping, Biologically Important Areas. Accessed March 2020 at <https://cetsound.noaa.gov/biologically-important-area-map>.
- National Research Council (NRC). 2005. Marine mammal populations and ocean noise: Determining when noise causes biologically significant effects. National Academy of Sciences: 142.
- Nedwell, J. and B. Edwards. 2002. Measurements of underwater noise in the Arun River during piling at County Wharf, Li
- 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.

- Oestman, R., D. Buehler, J. Reyff, and R. Rodkin. 2009. Technical guidance for assessment and mitigation of the hydroacoustic effects of pile driving on fish. Prepared by ICF Jones & Stokes and Illingworth & Rodkin, Inc. for the California Department of Transportation: 298.
- Orians, G. E. and N. E. Pearson. 1979. On the theory of central-place foraging. In *Analysis of Ecological Systems*. D. J. Horn, R. D. Mitchell, and G. R. Stairs (eds.). Pgs. 155–177.
- Patterson, J., and A. Acevedo-Gutiérrez. 2008. Tidal Influence on the Haul-Out Behavior of Harbor Seals (*Phoca vitulina*) at a Site Available at All Tide Levels. *Northwestern Naturalist* 89:17–23.
- 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.
- 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.
- 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.
- Perlman, D. 2017. *Warmer Waters Have More Bottlenose Dolphins Turning Up in San Francisco Bay*. SFGATE.
- Peterson, R. S., and G. A. Bartholomew. 1967. The natural history and behavior of the California sea lion. Special Publication No. 1, American Society of Mammalogy. 79 pp.
- Popper, A.N. and M.C. Hastings. 2009. The effects of anthropogenic sources of sound on fishes. *Journal of Fish Biology* 75 (3):455-489.
- Reichmuth, C. and M.M. Holt. 2013. Comparative assessment of amphibious hearing in pinnipeds. *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural and Behavioral Physiology* 199(6):491-507.
- Richardson, W.J., C.R. Greene, C.I. Malme, and D.H. Thomson. 1995. *Marine Mammals and Noise*. Academic Press, Inc., San Diego, CA.
- Ridgway, S. H., B. L. Scronce, and J. Kanwisher. 1969. Respiration and Deep Diving in the Bottlenose Porpoise. *Science* 166 (3913):1651–1654.
- Riedman, M. 1990. *The Pinnipeds: Seals, Sea Lions, and Walruses*. Berkeley: University of California Press.
- 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. Hückstädt, 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.
- 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., 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., 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.
- San Francisco Bay Conservation and Development Commission Staff (BCDC). 1994. *Dredging and Navigation Safety*. Report to Seaport Planning Advisory Committee. 23 p.
- BCDC. 2018. *Application Summary*. Consistency Determination No. C2018.003.00. 43 p.
- Santulli, A., A. Modica, C. Messina, L. Ceffa, A. Curatolo, G. Rivas, et al. 1999. Biochemical responses of European sea bass (*Dicentrarchus labrax* L.) to the stress induced by offshore experimental seismic prospecting. *Marine Pollution Bulletin* 38 (12):1105-1114.
- Schaeffer, K., K. McGourty, and N. Cosentino-Manning (eds.). 2007. Report on the Subtidal Habitats and associated biological taxa in San Francisco Bay. NOAA NMFS. 86 pgs.
- Schlundt, C.E., J.J. Finneran, D.A. Carder, and S.H. Ridgway. 2000. Temporary shift in masked hearing thresholds of bottlenose dolphins, *Tursiops truncatus*, and white whales, *Delphinapterus leucas*, after exposure to intense tones. *Journal of the Acoustical Society of America* 107:3496-3508.
- Scholik, A.R. and H.Y. Yan. 2001. The effects of underwater noise on auditory sensitivity of fish. *Proceedings of the Institute of Acoustics* 23(4):27.
- Shreffler, D. K., R. M. Tilson, B. I. Wells and J. Q. Word. 1994. *Tier one ecological evaluation of proposed discharge of dredged materials from the Oakland Harbor to ocean waters*. Battelle Marine Sciences Laboratory, prepared for and published by the U.S. Army Corps of Engineers, San Francisco District, San Francisco, California.
- 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(7):1357-1365.
- 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.
- Stern, S. J., W. Keener, I. D. Szczepaniak, and M. A. Webber. 2017. Return of harbor porpoises (*Phocoena phocoena*) to San Francisco Bay. *Aquatic Mammals* 43: 691–702.
- Stewart, B. S. 1989. *The Ecology and Population Biology of the Northern Elephant Seal, Mirounga angustirostris (Gill) 1866, on the Southern California Channel Islands*. Ph.D. dissertation, University of California, Los Angeles.
- Stewart, B. S., and P. K. Yochem. 1994. Ecology of Harbor Seals in the Southern California Bight. In *The Fourth California Islands Symposium: Update on the Status of Resources*, W. L. Halverson and G. J. Maender (editors), 123–134. Santa Barbara, CA: Santa Barbara Museum of Natural History.

- Stewart, B. S., and R. L. DeLong. 1995. Double Migrations of the Northern Elephant Seal, *Mirounga angustirostris*. *Journal of Mammalogy* 76:196–205.
- Suryan, R. M. and J. T. Harvey. 1998. Tracking harbor seals (*Phoca vitulina richardsi*) to determine dive behavior, foraging activity, and haul-out site use. *Marine Mammal Science* 14: 361–372.
- Szczepaniak, I., W. Keener, M. Webber, J. Stern, D. Maldini, M. Cotter, R.H. Defran, M. Rice, G. Campbell, A. Debich, A.R. Lang, D.L. Kelly, A. Kesaris, M. Bearzi, K. Causey, and D.W. Weller. 2013. *Bottlenose Dolphins Return to San Francisco Bay*. Poster presented at 20th Biennial Conference of Marine Mammalogy, New Zealand.
- Thompson, P. M. A. Mackay, D. J. Tollit, S. Enderby, and P. S. Hammond. 1998. The influence of body size and sex on the characteristics of harbour seal foraging trips. *Canadian Journal of Zoology* 76: 1044–1053.
- Thorson, P. and J.A. Reyff. 2006. San Francisco-Oakland Bay Bridge East Span Seismic Safety Project: marine mammal and acoustic monitoring for the marine foundations at piers E2 and T1, January September 2006. Prepared by SRS Technologies and Illingworth & Rodkin, Inc. for the California Department of Transportation, 51 p.
- The Marine Mammal Center (TMMC). 2019. Accessed 2019 at [www.marinemammalcenter.org](http://www.marinemammalcenter.org)
- Ward, W.D., A. Glorig, and D.L. Sklar. 1958. Dependence of temporary threshold shift at 4 kc on intensity and time. *Journal of the Acoustical Society of America* 30:944-954.
- Ward, W.D., A. Glorig, and D.L. Sklar. 1959. Temporary threshold shift from octave-band noise: Application to damage-risk criteria. *Journal of the Acoustical Society of America* 31:522-528.
- Ward, W.D. 1960. Recovery from high values of temporary threshold shift. *Journal of the Acoustical Society of America* 32:497-500.
- Wartzok D., A.N. Popper, J. Gordon J., and J.J. Merrill. 2004. Factors affecting the responses of marine mammals to acoustic disturbance. *Marine Technology Society Journal* 37:6-15.
- Wartzok, D., A.N. Popper, J. Gordon, and J. Merrill. 2003. Factors affecting the responses of marine mammals to acoustic disturbance. *Marine Technology Society Journal* 37(4):6-15.
- Wartzok, D., and D.R. Ketten. 1999. Marine mammal sensory systems. pp 117-175 In J.E. Reynolds II & S.A. Rommel (Eds.), *Biology of marine mammals*. Washington, DC: Smithsonian Institution Press.
- Weilgart, L.S. 2007. A brief review of known effects of noise on marine mammals. *International Journal of Comparative Psychology* 201(2-3):159-168.
- Wisniewska, D. M., M. Johnson, J. Teilman, L. Rojano-Doñate, J. Shearer, S. Sveegaard, L. A. Miller, U. Siebert, and P. Teglbjerg Madsen. 2016. Ultra-High Foraging Rates of Harbor Porpoises Make Them Vulnerable to Anthropogenic Disturbance. *Current Biology* 26: 1441–1446.
- 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.

- 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.
- 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* 3:323–332.
- Zelick, R., and D.A. Mann. 1999. Acoustic communication in fishes and frogs. In: Fay, R.R. and A.N. Popper, eds. *Comparative hearing: Fishes and amphibians*. Springer-Verlag, New York.