

## References:

- Au, W.L.L., and Hastings, M.C. 2008. Principles of Marine Bioacoustics. Springer, New York, NY.
- California Department of Transportation (Caltrans). 2015. Technical Guidance for Assessment and Mitigation of the Hydroacoustic Effects of Pile Driving on Fish. Available online at: [http://www.dot.ca.gov/hq/env/bio/fisheries\\_bioacoustics.htm](http://www.dot.ca.gov/hq/env/bio/fisheries_bioacoustics.htm). November 2015.
- CIANBRO. 2018a. 2017 Monitoring Report for Berth 11 Waterfront Improvement Project at Portsmouth Naval Shipyard, Kittery, Maine. April 18, 2017 – December 31, 2017.
- CIANBRO. 2018b. Sightings during 2018 drilling and pile driving operations. Two page pdf summary of sightings during 58 of 100 days monitored for Berth 11 Waterfront improvements project in 2018. Document provided via email on August 11. Dazey, E., M. McIntosh, S. Brown, and K.M. Dudzinski. 2012. Assessment of Underwater Anthropogenic Noise Associated with Construction Activities in Bechers Bay, Santa Rosa Island, California. *Journal of Environmental Protection*; 3: 1286–1294.
- Clark, C.W., Ellison, W.T., Southall, B.L., Hatch, L., Van Parijs, S.M., Frankel, A., Ponirakis, D., 2009. Acoustic masking in marine ecosystems: intuitions, analysis, and implication. *Marine Ecology Progress Series* 395, 201–222.
- Ellison, W.T., Southall, B.L., Clark, C.W., and Frankel, A.S., 2012. A new context-based approach to assess marine mammal behavioral responses to anthropogenic sounds. *Conservation Biol.* 1:21-28.
- Finneran, J., R. Dear, D.A. Carder, and S.H. Ridgway. 2003. Auditory and behavioral responses of California sea lions (*Zalophus californianus*) to single underwater impulses from an arc-gap transducer. *The Journal of the Acoustical Society of America*, 114(3): 1667-1677.
- Finneran, J. J., Carder, D. A., Schlundt, C. E., and Ridgway, S. H. (2005). “Temporary threshold shift (TTS) in bottlenose dolphins (*Tursiops truncatus*) exposed to mid-frequency tones,” *J. Acoust. Soc. Am.* 118, 2696–2705.
- Foote, A.D., R.W. Osborne, and A.R. Hoelzel. 2004. Whalecall response to masking boat noise. *Nature* 428:910.
- Hemilä S, Nummela S, Berta A, Reuter T (2006) High-frequency hearing in phocid and otariid pinnipeds: An interpretation based on inertial and cochlear constraints. *J Acoust Soc Am* 120:3463–3466
- Hammill, M.O., and G. Stenson. 2006. Abundance of Northwest Atlantic hooded seals (1960–2005). DFO Canada. Canadian Science Advisory Secretariat Research Document 2006/068. 19 p. <http://www.dfo-mpo.gc.ca/csas/>

- Hayes, S.A., Josephson, E., Maze-Foley, K., and Rosel, P.E., et al. 2017. US Atlantic and Gulf of Mexico Marine Mammal Stock Assessments – 2016: (second edition). NOAA Technical Memorandum NMFS-NE-241. US Department of Commerce, National Oceanic and Atmospheric Administration, National Marine Fisheries Service, Northeast Fisheries Science Center, Woods Hole, Massachusetts.
- Hayes, S.A., Josephson, E., Maze-Foley, K., and Rosel, P.E., et al. 2018. US Atlantic and Gulf of Mexico Marine Mammal Stock Assessments – 2017: (second edition). NOAA Technical Memorandum NMFS-NE-245. US Department of Commerce, National Oceanic and Atmospheric Administration, National Marine Fisheries Service, Northeast Fisheries Science Center, Woods Hole, Massachusetts.
- Hildebrand, J.A. 2009. Anthropogenic and natural sources of ambient noise in the ocean. *Marine Ecology-Progress Series*. 395:5-20.
- Holt M.M., Noren D.P., Veirs V., Emmons C., Veirs S. 2009. Speaking up: killer whales (*Orcinus orca*) increase their call amplitude in response to vessel noise. *J. Acoust. Soc. Am.* 125:EL27–EL32
- Hydrosonic, LLC. 2017a. NAVFAC Structural Repairs at Berth 11A, 11B, and 11C at Portsmouth Naval Shipyard, Maine (Contract No. N40085-17-C-5003). Hydroacoustic Monitoring Report, Ambient Conditions, Vibratory H-Pile Driving. May 31.
- Hydrosonic, LLC. 2017b. NAVFAC Structural Repairs at Berth 11A, 11B, and 11C at Portsmouth Naval Shipyard, Maine (Contract No. N40085-17-C-5003). Hydroacoustic Monitoring Report, Impact Pile Driving Test Pile 1 (#25.5). Oct 31.
- Illingworth and Rodkin. 2012. Naval Base Kitsap Test Pile Program. Acoustic Monitoring Report. April 2012.
- Kastak, D. & Schusterman, R. J. 1999. In-air and underwater hearing sensitivity of a northern elephant seal (*Mirounga angustirostris*). *Canadian Journal of Zoology*, 77(11), 1751-1758.
- Kastak, D. Schusterman, R.J., Southall, B.L., & Reichmuth, C.J. 1999. Underwater temporary threshold shift induced by octave-band noise in three species of pinniped. *J. Acoust. Soc. Am.*, Vol. 106, No. 2, August 1999.
- Kastelein, R. A., Wensveen, P., Hoek, L. & Terhune, J. M. 2009a. 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., Wensveen, P. J., Hoek, L., Verboom, W. C. & Terhune, J. M. 2009b. Underwater detection of tonal signals between 0.125 and 100 kHz by harbor seals (*Phoca vitulina*). *Journal of the Acoustical Society of America*, 125(2), 1222-1229.
- Kastelein, R. A., Gransier, R., Hoek, L., Macleod, A., and Terhune, J. M. (2012). “Hearing threshold shifts and recovery in harbor seals (*Phoca vitulina*) after octave-band noise exposure at 4 kHz,” *J. Acoust. Soc. Am.* 132, 2745–2761.

- Lamontagne, Kevin (2018) Personal communication between Kevin Lamontagne, Tetra Tech and Jessica Bassi, NAVFAC MIDLANT regarding any sightings of hooded seal and/or harp seal during 2018 survey efforts. The 2018 Tech memo for Year 2 monitoring will not be available until January 2019.
- McCauley, R.D., Duncan, A.J., Penrose, J.D., et al. 2000. Marine seismic surveys – a study of environmental implications. *APPEA J* 40: 692–706.
- NMFS. 2016. Technical Guidance for Assessing the Effects of Anthropogenic Sound on Marine Mammal Hearing: Underwater Acoustic Thresholds for Onset of Permanent and Temporary Threshold Shifts. U.S. Dept. of Commerce, NOAA. NOAA Technical Memorandum NMFS-OPR-55, 178 p.
- NMFS. 2018. 2018 Revision 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. NOAA Technical Memorandum NMFS-OPR-59. April 2018
- National Oceanic and Atmospheric Administration (NOAA) Fisheries. 2015. Gray Seal (*Halichoerus grypus*). Retrieved from : <http://www.fisheries.noaa.gov/pr/species/mammals/seals/gray-seal.html>. January 15
- NAVFAC. 2012. Naval Base Kitsap at Bangor EHW-1 Pile Replacement Project. Final Acoustic Monitoring Report. Bangor, Washington. 30 April 2012.
- Naval Facilities Engineering Command Mid-Atlantic (NAVFAC Mid-Atlantic). 2018. Technical Memorandum Nearshore Marine Mammal Surveys, Portsmouth Naval Shipyard. Prepared by Tetra Tech, Inc, NAVFAC Atlantic Biological Resource Services, Contract: N62470-13-D-8016, Task Order: WE08. Final March.
- NAVFAC Mid-Atlantic. (2016, April 8). Nearshore Surveys and Portsmouth Naval Shipyard (PNSY) Final Report.
- Richardson, W.J., C.R. Greene, C.I. Malme, and D.H. Thomson. 1995. *Marine Mammals and Noise*. Academic Press, NY.
- Reichmuth, C., Holt, M. M., Mulsow, J., Sills, J. M., and Southall, B. L. (2013). “Comparative assessment of amphibious hearing in pinnipeds,” *J. Comp. Physiol. A* 199, 491–507.
- Southall, B.L., Bowles, A.E., Ellison, W.T., Finneran, J.J., Gentry, R.L., Greene Jr., C.R., Kastak, D., Ketten, D.R., Miller, J.H., Nachtigall, P.E., Richardson, W.J., Thomas, J.A., & Tyack, P.L. 2007. Marine mammal noise exposure criteria: Initial Scientific Recommendations. *Aquatic Mammals*, Volume 33, Number 4, 2007.
- Waring, G.T., E. Josephson, C.P. Fairfield-Walsh, K. Maze-Foley, and editors. (2007). U.S. Atlantic and Gulf of Mexico Marine Mammal Stock Assessment Report – 2007. NOAA Tech Memo NMFS NE 205. 415p.

Waring, G.T., E. Josephson, C.P. Fairfield-Walsh, K. Maze-Foley, and editors. (2014). U.S. Atlantic and Gulf of Mexico Marine Mammal Stock Assessment Report – 2013. NOAA Tech Memo NMFS NE 228.

Waring, Gordon T., Robert A. DiGiovanni Jr., Elizabeth Josephson, Stephanie Wood, and James R. Gilbert. (2015). 2012 Population Estimate for the Harbor Seal (*Phoca vitulina concolor*) in New England Waters. NOAA Technical Memorandum NMFS-NE-235. August 2015.

Waring, Gordon T., Elizabeth Josephson, Katherine Maze-Foley, and Patricia E. Rosel, Editors. (2016). US Atlantic and Gulf of Mexico Marine Mammal Stock Assessments – 2015. NOAA Technical Memorandum NMFS-NE-238.

Wartzok, D. and D.R. Ketten. 1999. Marine mammal sensory systems. Pages 117-148 in J.E. Reynolds III and S.A. Rommel (eds), *Biology of Marine Mammals*. Washington D.C.: Smithsonian Institution Press.