

REFERENCES

- Acevedo-Gutiérrez, A. and S.C. Stienessen, 2004. Bottlenose dolphins (*Tursiops truncatus*) increase number of whistles when feeding. *Aquatic Mammals* 30(3):357-362.
- Agency for Toxic Substances and Disease, 2000. *Toxicological Profile for Polychlorinated Biphenyls (PCBs)*. U.S. Department of Health and Human Services. November.
- ANSI (American National Standards Institute). 1986. Methods of measurement for impulse noise 3 (ANSI S12.7-1986). Acoustical Society of America, Woodbury, NY.
- Archer, F.I., S.L. Mesnick, and A.C. Allen. 2010. Variation and predictors of vessel response behavior in a tropical dolphin community. NOAA Technical Memorandum NMFS-SWFSC-457, National Marine Fisheries Service: 60.
- Au, W. W. L., 1993. *The Sonar of Dolphins*. New York, New York: Springer-Verlag.
- Au, W.W.L. and D.L. Herzing. 2003, Echolocation signals of wild Atlantic spotted dolphin (*Stenella frontalis*). *Journal of the Acoustical Society of America* 113(1):598-604.
- Au, W.W.L. and M.C. Hastings. 2008. Principles of Marine Bioacoustics. Springer, New York
- Watkins, W.A. 1986. Whale reactions to human activities in Cape Cod waters. *Marine Mammal Science* 2 (4):251-262
- Barlow, Jay. 2003. Cetacean Abundance in Hawaiian Waters Estimated from a Summer/Fall Survey in 2002. *Marine Mammal Science*, 22(2); 446-464. April 2006.
- Barlow, Jay. 2006. Preliminary Estimates of the Abundance of Cetaceans Along the U.S. West Coast: 1991-2001. Southwest Fisheries Science Center Administrative report LJ-03-03. February 2003.
- Baron, S. 2006. Personal communication via email between Dr. Susan Baron, National Marine Fisheries Service, Southeast Fisheries Science Center, Miami, Florida, and Dr. Amy R. Schlock, Geo-Marine, Inc., Hampton, Virginia, 31 August.
- Baumgartner, M. F., K. D. Mullin, L. N. May, and T. D. Lemming, 2001. Cetacean habitats in the northern Gulf of Mexico. *Fishery Bulletin* 99:219-239.
- Beauchamp, G. and B. Livoreil. 1997. The effect of group size on vigilance and feeding rate in spice finches (*Lonchura punctulata*). *Canadian Journal of Zoology* 75 (9):1526-1531.
- Becker, N. M., 1995. *Fate of Selected High Explosives in the Environment: A Literature Review*. Los Alamos National Laboratory. LAUR-95-1018. March 1995.

- Bejder, L., A. Samuels, H. Whitehead, H. Finn, and S. Allen. 2009. Impact assessment research: Use and misuse of habituation, sensitisation and tolerance in describing wildlife responses to anthropogenic stimuli. *Marine Ecology Progress Series* **395**:177-185.
- Best, P.B. 1982. Whales: Why do they strand? *African Wildlife* **36** (3):96-99.
- Blackwell, S.B., J.W. Lawson, and M.T. Williams. 2004. Tolerance by ringed seals (*Phoca hispida*) to impact pipe-driving and construction sounds at an oil production island. *Journal of the Acoustical Society of America* **115** (5):2346.
- 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. Bonnell, M.L., M.O. Pierson, and G.D. Farrens. 1983. Pinnipeds and sea otters of central and northern California, 1980-1983: Status, abundance and distribution. Prepared by Center for Marine Studies, University of California for Minerals Management Service: 220.
- Bradshaw, C.J.A., S. Boutin, and D.M. Hebert. 1998. Energetic implications of disturbance caused by petroleum exploration to woodland caribou. *Canadian Journal of Zoology* **76** (7):1319-1324.
- Branstetter, B.K., J.S. Trickey, K. Bakhtiari, A. Black, H. Aihara, and J.J. Finneran. 2013. Auditory masking patterns in bottlenose dolphins (*Tursiops truncatus*) with natural, anthropogenic, and synthesized noise. *Journal of the Acoustical Society of America* **133** (3):1811-1818. Brown, R.F. 1988. Assessment of pinniped populations in Oregon: April 1984 to April 1985. NWAFC Processed Report 88-05, National Marine Fisheries Service: 54.
- 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.
- Cetacean and Turtle Assessment Program (CETAP), 1982. Characterization of marine mammals and turtles in the Mid- and North Atlantic areas of the U.S. Outer Continental Shelf. Contract AA551-CT8-48. Prepared for U.S. Bureau of Land Management, Washington D.C. by Cetacean and Turtle Assessment Program, University of Rhode Island, Graduate School of Oceanography, Kingston, Rhode Island.
- Clark, C.W., W.T. Ellison, B.L. Southall, L. Hatch, S.M. Van Parijs, A. Frankel, and D. Ponirakis. 2009. Acoustic masking in marine ecosystems: intuitions, analysis, and implication. *Marine Ecology Progress Series* **395**:201-222.
- Cook, M.L.H., L.S. Sayigh, J.E. Blum, and R.S. Wells, 2004. Signature-whistle production in undisturbed free-ranging bottlenose dolphins (*Tursiops truncatus*). *Proceedings of the Royal Society B: Biological Sciences* **271**:1043-1049.

- Connor, R.C. and M.R. Heithaus. 1996. Approach by great white shark elicits flight response in bottlenose dolphins. *Marine Mammal Science* **12** (4):602-606.
- Costa, D.P., D.E. Crocker, J. Gedamke, P.M. Webb, D.S. Houser, S.B. Blackwell, et al. 2003. The effect of a low-frequency sound source (acoustic thermometry of the ocean climate) on the diving behavior of juvenile northern elephant seals, *Mirounga angustirostris*. *Journal of the Acoustical Society of America* **113** (2):1155-1165.
- Cox, T.M., T.J. Ragen, A.J. Read, E. Vos, R.W. Baird, K. Balcomb, et al. 2006. Understanding the impacts of anthropogenic sound on beaked whales. *Journal of Cetacean Research and Management* **7** (3):177-187.
- Croll, D.A., C.W. Clark, J. Calambokidis, W.T. Ellison, and B.R. Tershy. 2001. Effect of anthropogenic low-frequency noise on the foraging ecology of *Balaenoptera* whales. *Animal Conservation* **4** (1):13-27.
- Curry, B.E. and J. Smith. 1997. Phylogeographic structure of the bottlenose dolphin (*Tursiops truncatus*): Stock identification and implications for management. Pages 227-247 in Dizon, A.E., S.J. Chivers, and W.F. Perrin, eds. *Molecular genetics of marine mammals*. Lawrence, Kansas: Society for Marine Mammalogy.
- Daan, S., C. Deerenberg, and C. Dijkstra. 1996. Increased daily work precipitates natural death in the kestrel. *Journal of Animal Ecology* **65** (5):6.
- Darrach, M.R., A. Chutjian, and G.A. Plett, 1998. Jet Propulsion Laboratory, California Institute of Technology. Trace explosives signatures from World War II unexploded undersea ordnance.
- Davis, R. W., W. E. Evans, and B. Würsig, eds., 2000. Cetaceans, Sea Turtles and Seabirds in the Northern Gulf of Mexico: Distribution, Abundance and Habitat Associations. Volume II: Technical Report. Prepared by Texas A&M University at Galveston and the National Marine Fisheries Service. U.S. Department of the Interior, Geological Survey, Biological Resources Division, USGS/BRD/CR-1999-0006 and Minerals Management Service, Gulf of Mexico OCS Region, New Orleans LA. OCS Study MMS 2000-003. 346 pp.
- 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. *Marine Mammal Science* **14**(3):490-507.
- Davis, R.W., G.A.J. Worthy, B. Würsig and S.K. Lynn. 1996. Diving behavior and at-sea movements of an Atlantic spotted dolphin the Gulf of Mexico. *Marine Mammal Science* **12**(4): 569-581.
- Department of the Navy (DON), U.S. Fleet Forces Command. 2007. Marine Resources Assessment for the Gulf of Mexico. Final Report. February 2007.

- Di Iorio, L. and C.W. Clark. 2009. Exposure to seismic survey alters blue whale acoustic communication. *Biology Letters* **6** (1):51-54.
- Duffield, D. A. and R. S. Wells. 2002. The molecular profile of a resident community of bottlenose dolphins, *Tursiops truncatus*. pp. 3-11. *In*: C. J. Pfeiffer (ed.) *Cell and Molecular Biology of Marine Mammals*. Krieger Publishing, Melbourne, FL.
- Duffield, D. A., S. H. Ridgway, and L. H. Cornell. 1983. Hematology distinguishes coastal and offshore forms of dolphins (*Tursiops*). *Canadian Journal of Zoology*, Vol. 61, pp 930–933.
- Ellison, W.T., B.L. Southall, C.W. Clark, and A.S. Frankel. 2012. A new context-based approach to assess marine mammal behavioral responses to anthropogenic sounds. *Conservation Biology* **26** (1):21-28.
- Erbe, C. 2008. Critical ratios of beluga whales (*Delphinapterus leucas*) and masked signal duration. *Journal of the Acoustical Society of America* **124** (4):2216-2223.
- Evans, D.L. and G.R. England. 2001. Joint interim report: Bahamas marine mammal stranding event of 15-16 March 2000. U.S. Navy and National Marine Fisheries Service: 66.
- Fair, P.A. and P.R. Becker. 2000. Review of stress in marine mammals. *Journal of Aquatic Ecosystem Stress and Recovery* **7** (4):335-354.
- Fazioli, K.L., S. Hofmann, and R.S. Wells. 2006. Use of Gulf of Mexico coastal waters by distinct assemblages of bottlenose dolphins (*Tursiops truncatus*). *Aquatic Mammals* **32**(2):212-222.
- Finneran, J. J., and A. K. Jenkins. 2012. Criteria and Thresholds for U.S. Navy Acoustic and Explosive Effects Analysis. U.S. Navy, SPAWAR Systems Center. April 2012.
- Finneran, J.J. and D.S. Houser. 2006. Comparison of in-air evoked potential and underwater behavioral hearing thresholds in four bottlenose dolphins (*Tursiops truncatus*). *Journal of the Acoustical Society of America* **119**(5): 3181-3192.
- Finneran, J. J. and Schlundt, C. E. (2004). “Effects of intense pure tones on the behavior of trained odontocetes,” (SSC San Diego, San Diego, CA
- Finneran, J.J., D.A. Carder, and S.H. Ridgway, 2005. Temporary threshold shift in bottlenose dolphins (*Tursiops truncatus*), belugas, (*Delphinapterus leucas*), and California sea lions (*Zalophus californianus*). *Environmental Consequences of Underwater Sound (ECOUS) Symposium*, San Antonio, Texas. 12-16 May 2003.

- Finneran, J.J., C.E. Schlundt, R. Dear, D.A. Carder, and S.H. Ridgway. 2002. Temporary shift in masked hearing thresholds in odontocetes after exposure to single underwater impulses from a seismic watergun. *Journal of the Acoustical Society of America* **111** (6):2929.
- Ford, J.K.K.B.B. and R.R.R. Reeves. 2008. Fight or flight: Antipredator strategies of baleen whales. *Mammal Review* **38** (11):550 - 86.
- Foote, A.D., R.W. Osborne, and A.R. Hoelzel. 2004. Whale-call response to masking boat noise. *Nature* **428**:91
- 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.
- Fristrup, K.M., L.T. Hatch, and C.W. Clark. 2003. Variation in humpback whale (*Megaptera novaeangliae*) song length in relation to low-frequency sound broadcasts. *Journal of the Acoustical Society of America* **113** (6):3411-3424.
- Fritz, H., M. Guillemain, and D. Durant. 2002. The cost of vigilance for intake rate in the mallard (*Anas platyrhynchos*): An approach through foraging experiments. *Ethology, Ecology and Evolution* **14** (2):91-97.
- Fulling, G.L., K.D. Mullin, and C.W. Hubard. 2003. Abundance and distribution of cetaceans in outer continental shelf waters of the U.S. Gulf of Mexico. *Fishery Bulletin* **101**:923-932
- Gailey, G., B. Wursig, and T.L. McDonald. 2007. Abundance, behavior, and movement patterns of western gray whales in relation to a 3-D seismic survey, northeast Sakhalin Island, Russia. *Environmental Monitoring and Assessment* **134** (1-3):75-91.
- Garrison, L. 2008. Protected Species Habitat Modeling in the Eglin Gulf Test and Training Range. Department of Defense Legacy Resource management Program, Project Number 05-270. Prepared by Dr. Lance Garrison, Southeast Fisheries Science Center, National Marine Fisheries Service.
- 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.
- Goertner, J.F. 1982. *Prediction of Underwater Explosion Safe Ranges for Sea Mammals*. Naval Surface Weapons Center, Silver Spring, Maryland. Research and Technology Department. NSWC TR 82-188. 16 August 1982.

- Goldbogen, J.A., J. Calambokidis, A.S. Friedlaender, J. Francis, S.L. Deruiter, A.K. Stimpert, et al. 2013a. Underwater acrobatics by the world's largest predator: 360° rolling manoeuvres by lunge-feeding blue whales. *Biology Letters* 9 (1):Article 20120986.
- Goldbogen, J.A., A.S. Friedlaender, J. Calambokidis, M.F. McKenna, M. Simon, and D.P. Nowacek. 2013b. Integrative approaches to the study of baleen whale diving behavior, feeding performance, and foraging ecology. *BioScience* 63 (2):90-100.
- Goold, J.C. 1996. Acoustic assessment of populations of common dolphin *Delphinus delphis* in conjunction with seismic surveying. *Journal of the Marine Biological Association of the United Kingdom* 76 (3):811-820.
- Gordon, J., D. Gillespie, J. Potter, A. Frantzis, M.P. Simmonds, R. Swift, and D. Thompson. 2004. A review of the effects of seismic surveys on marine mammals. *Marine Technology Society Journal* 37:16-34.
- Griffin, R.B. and N.J. Griffin. 2003. Distribution, habitat partitioning, and abundance of Atlantic spotted dolphins, bottlenose dolphins, and loggerhead sea turtles on the eastern Gulf of Mexico continental shelf. *Gulf of Mexico Science* 21(1):23-34.
- Griffin, R.B. and N.J. Griffin. 2004. Temporal variation in Atlantic spotted dolphin (*Stenella frontalis*) and bottlenose dolphin (*Tursiops truncatus*) densities on the west Florida continental shelf. *Aquatic Mammals* 30(3):380-390.
- 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.
- 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.
- Hastings, M.C. and A.N. Popper. 2005. Effects of sound on fish. Prepared by Jones & Stokes for the California Department of Transportation: 82.
- Hemilä, S., S. Nummela, A. Berta, and T. Reuter. 2006. High-frequency hearing in phocid and otariid pinnipeds: An interpretation based on inertial and cochlear constraints (L). *Journal of the Acoustical Society of America* 120 (6):3463-3466.
- Hayes, S. A., E. Josephson, K. Maze-Foley, and P Rosel. 2017. US Atlantic and Gulf of Mexico Marine Mammal Stock Assessments – 2016. NOAA Technical Memorandum NMFS-NE-241
- Hersh, S.L. and D.A. Duffield. 1990. Distinction between northwest Atlantic offshore and coastal bottlenose dolphins based on hemoglobin profile and morphometry. Pages 129-

139 in Leatherwood, S. and R.R. Reeves, eds. The bottlenose dolphin. San Diego, California: Academic Press.

Herzing, D.L. 1996. Vocalizations and associated underwater behavior of free-ranging Atlantic spotted dolphins, *Stenella frontalis* and bottlenose dolphins, *Tursiops truncatus*. *Aquatic Mammals* 22(2):61-79.

Herzing, D.L. 1997. The life history of free-ranging Atlantic spotted dolphins (*Stenella frontalis*): Age classes, color phases, and female reproduction. *Marine Mammal Science* 13(4):576-595.

Hildebrand, J.A. 2009. Anthropogenic and natural sources of ambient noise in the ocean. *Marine Ecology Progress Series* 395:5-20.

Hoelzel, A.R., C.W. Potter, and P.B. Best, 1998. Genetic differentiation between parapatric 'nearshore' and 'offshore' populations of the bottlenose dolphin. *Proceedings of the Royal Society B: Biological Sciences* 265:1177-1183.

Hoffsommer, John C., Donald J. Glover, and Jerome M. Rosen, 1972. Analysis of explosives in sea water and in ocean floor sediment and fauna. Naval Ordnance Laboratory, White Oak, Silver Spring, MD.

Holberton, R.L., B. Helmuth, and J.C. Wingfield. 1996. The corticosterone stress response in gentoo and king penguins during the non-fasting period. *Condor* 98 (4):850-854.

Holt, M.M., D.P. Noren, V. Veirs, C.K. Emmons, and S. Veirs. 2009. Speaking up: Killer whales (*Orcinus orca*) increase their call amplitude in response to vessel noise. *Journal of the Acoustical Society of America* 125 (1):EL27-32.

Hood, L.C., P.D. Boersma, and J.C. Wingfield. 1998. The adrenocortical response to stress in incubating Magellanic penguins (*Spheniscus magellanicus*). *Auk* 115 (1):76-84.

Houser, D.S. and P.W. Moore. 2014. Report on the current and future status of underwater hearing research. Report NMMF-001-14, National Marine Mammal Foundation: 46.

ISO (International Organization for Standardization). 2003. Acoustics – Description, measurement and assessment of environmental noise – Part 1: Basic quantities and assessment procedures (ISO 1996-1:2003(E)). International Organization for Standardization, Geneva.

Janik, V.M. 2000. Food-related bray calls in wild bottlenose dolphins (*Tursiops truncatus*). *Proceedings of the Royal Society B: Biological Sciences* 267:923-927.

Janik, V.M., L.S. Sayigh, and R.S. Wells. 2006. Signature whistle shape conveys identity information to bottlenose dolphins. *Proceedings of the National Academy of Sciences of the United States of America* 103(21):8293-8297.

- Jepson, P.D., R. Deaville, K. Acevedo-Whitehouse, J. Barnett, A. Brownlow, R.L. Brownell, et al. 2013. What caused the UK's largest common dolphin (*Delphinus delphis*) mass stranding event? PLoS ONE **8** (4):e60953.
- Jessop, T.S., A.D. Tucker, C.J. Limpus, and J.M. Whittier. 2003. Interactions between ecology, demography, capture stress, and profiles of corticosterone and glucose in a free-living population of Australian freshwater crocodiles. General and Comparative Endocrinology **132** (1):161-170.
- Jones, G.J. and L.S. Sayigh. 2002. Geographic variation in rates of vocal production of free-ranging bottlenose dolphins. *Marine Mammal Science* 18(2):374-393.
- Kastak, D.A. and R.J. Schusterman. 1999. In-air and underwater hearing sensitivity of a northern elephant seal (*Mirounga angustirostris*). Canadian Journal of Zoology **77** (11):1751-1758.
- Kastak, D., R.J. Schusterman, B.L. Southall, and C.J. Reichmuth. 1999. Underwater temporary threshold shift induced by octave-band noise in three species of pinniped. Journal of the Acoustical Society of America **106** (2):1142-1148.
- Kastak, D., B.L. Southall, R.J. Schusterman, and C.R. Kastak. 2005. Underwater temporary threshold shift in pinnipeds: Effects of noise level and duration. Journal of the Acoustical Society of America **118** (5):3154-3163.
- Kastak, D., J. Mulsow, A. Ghoul, and C. Reichmuth. 2008. Noise-induced permanent threshold shift in a harbor seal. Journal of the Acoustical Society of America **123**:2986.
- Kastelein, R.A., D. de Haan, N. Vaughan, C. Staal, and N.M. Schooneman. 2001. The influence of three acoustic alarms on the behaviour of harbour porpoises (*Phocoena phocoena*) in a floating pen. Marine Environmental Research **52** (4):351-371.
- Kastelein, R.A., P. Bunscoek, M. Hagedoorn, W.W.L. Au, and D. de Haan. 2002. Audiogram of a harbor porpoise (*Phocoena phocoena*) measured with narrow-band frequency-modulated signals. Journal of the Acoustical Society of America **112** (1):334-344.
- Kastelein, R.A., 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.

- Kenney, R.D. 1990. Bottlenose dolphins off the northeastern United States. Pages 369-386 in S. Leatherwood and R.R. Reeves, eds. *The bottlenose dolphin*. San Diego: Academic Press.
- Ketten, D.R. 1997. Structure and Function in Whale Ears. *Bioacoustics* vol. 8, no. 1, pp. 103-136.
- Ketten, D.R. 1998. Marine mammal auditory systems: *A summary of audiometric and anatomical data and its implications for underwater acoustic impacts*. NOAA-TM-NMFSSWFSC-256, Department of Commerce.
- Kingston, S.E. and P.E. Rosel. 2004. Genetic differentiation among recently diverged *delphinid* taxa determined using AFLP markers. *Journal of Heredity* 95(1):1-10.
- Klatsky, L., R. Wells, and J. Sweeney. 2005. Bermuda's deep diving dolphins - Movements and dive behavior of offshore bottlenose dolphins in the Northwest Atlantic Ocean near Bermuda. Page 152 in Abstracts, Sixteenth Biennial Conference on the Biology of Marine Mammals. 12-16 December 2005. San Diego, California.
- Klatsky, L.J., R.S. Wells, and J.C. Sweeney. 2007. Offshore bottlenose dolphins (*Tursiops truncatus*): Movement and dive behavior near the Bermuda Pedestal. *Journal of Mammalogy* 88(1):59-66.
- 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., Ward, W.D., Miller, J.D. and Eldredge, D.H., 1966. Hazardous exposure to intermittent and steady-state noise. *The Journal of the Acoustical Society of America*, 39(3), 451-464.
- Kryter, K.D. 1985. *The Effects of Noise on Man*. Academic Press, New York.
- LaBrecque, E. et al. 2015. Biologically Important Areas for Cetaceans Within U.S. Waters – East Coast Region. *Aquatic Mammals* 2015, 41(1), 17-29, DOI 10.1578/AM.41.1.2015.17
- Lammers, M.O., W.W.L. Au, and D.L. Herzing. 2003. The broadband social acoustic signaling behavior of spinner and spotted dolphins. *Journal of the Acoustical Society of America* 114(3):1629-1639.
- Landsberg, P.G., 2000. Underwater blast injuries. *Trauma & Emergency Medicine*, 17(2).
- 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.

- Law, K.L., S. Moret-Ferguson, M.A. Maximenko, G. Proskurowski, E.E. Peacock, J. Hafner, and C.M. Reddy. 2010. Plastic Accumulation in the North Atlantic Subtropical Gyre. *Science* 329, 1185 (2010).
- Litz, J.A. et al, 2014. Review of historical unusual mortality events (UMEs) in the Gulf of Mexico (1990–2009): providing context for the multi-year northern Gulf of Mexico cetacean UME declared in 2010. *Dis. Aqua Org* 112.161-175.
- Lucke, K., U. Siebert, P.A. Lepper, and M. Blanchet. 2009. Temporary shift in masked hearing thresholds in a harbor porpoise (*Phocoena phocoena*) after exposure to seismic airgun stimuli. *Journal of the Acoustical Society of America* **125** (6):4060.
- Lusseau, D. and L. Bejder. 2007. The long-term consequences of short-term responses to disturbance experiences from whalewatching impact assessment. *International Journal of Comparative Psychology* **201** (2-3):228-236.
- Madsen, P.T., M. Johnson, P.J.O. Miller, N.A. Soto, J. Lynch, and P. Tyack. 2006. Quantitative measures of air-gun pulses recorded on sperm whales (*Physeter macrocephalus*) using acoustic tags during controlled exposure experiments. *Journal of the Acoustical Society of America* **120** (4):2366-2379.
- Malme, C. I., Miles, P. R., Clark, C. W., Tyack, P., & Bird, J. E. 1984. *Investigations of the potential effects of underwater noise from petroleum-industry activities on migrating gray-whale behavior. Phase 2: January 1984 migration* (No. PB-86-218377/XAB; BBN-5586). Bolt, Beranek and Newman, Inc., Cambridge, MA (USA).
- Mate, B. R., K. A. Rossbach, S. L. Nieuwirth, 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*, Vol 11, No 4, pp 452–463.
- Mead, J.G. and C.W. Potter. 1995. Recognizing two populations of the bottlenose dolphin (*Tursiops truncatus*) off the Atlantic Coast of North America: Morphologic and ecologic considerations. *IBI Reports* 5:31-44.
- Miller, J.D. 1974. Effects of noise on people. *Journal of the Acoustical Society of America* **56** (3):729-764.
- Miller, P.J.O., N. Biassoni, A. Samuels, and P.L. Tyack. 2000. Whale songs lengthen in response to sonar. *Nature* **405** (6789):903.
- 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, G.P. 1987. Influence of the adrenal axis upon the gonads. Pages 456-496 in J. Clarke, ed. Oxford Reviews in Reproductive Biology. Oxford University Press, New York, New York.
- Moberg, G.P. 2000. Biological response to stress: Implications for animal welfare. Pages 1-21 in G.P. Moberg and J.A. Mench, eds. The Biology of Animal Stress: Basic Principles and Implications for Animal Welfare. CABI Publishing, Oxon, United Kingdom.
- Mooney, T.A., P.E. Nachtigall, W.W.L. Au, M. Breese, and S. Vlachos. 2005. Bottlenose dolphin: Effects of noise duration, intensity, and frequency. Page 197 in Abstracts, Sixteenth Biennial Conference on the Biology of Marine Mammals. 12-16 December 2005. San Diego, California.
- Morton, A.B. and H.K. Symonds. 2002. Displacement of *Orcinus orca* (L.) by high amplitude sound in British Columbia, Canada. ICES Journal of Marine Science **59** (1):71-80.
- Mullin, K.D. and G.L. Fulling. 2004. Abundance of cetaceans in the oceanic northern Gulf of Mexico, 1996-2001. *Marine Mammal Science* 20(4): 787-807.
- Mullin, K.D. and L.J. Hansen. 1999. Marine mammals of the northern Gulf of Mexico. Pages 269-277 in Kumpf, H., K. Steidinger, and K. Sherman, eds. The Gulf of Mexico large marine ecosystem: Assessment, sustainability, and management. Cambridge, England: Blackwell Science.
- Nachtigall, P.E., D.W. Lemonds, and H.L. Roiblat. 2000. Psychoacoustic studies of dolphin and whale hearing, in *Hearing by Whales and Dolphins*, Au, W.W.L., A.N. Popper, and R.R. Fay, eds. Springer-Verlag: New York. pp 330-363.
- Nachtigall, P.E., J.L. Pawloski, and W.W.L. Au. 2003. Temporary threshold shift and recovery following noise exposure in the Atlantic bottlenose dolphin (*Tursiops truncatus*). *Journal of the Acoustical Society of America* 113:3425-3429.
- Nachtigall, P.E., A.Y. Supin, J.L. Pawloski, and W.W.L. Au. 2004. Temporary threshold shifts after noise exposure in the bottlenose dolphin (*Tursiops truncatus*) measured using evoked auditory potentials. *Marine Mammal Science* **20** (4):672-687.
- National Marine Fisheries Service (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. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA). NOAA Technical Memorandum NMFS-OPR-55, 178 p.
- Ng, S.L. and S. Leung. 2003. Behavioral response of Indo-Pacific humpback dolphin (*Sousa chinensis*) to vessel traffic. *Marine Environmental Research* **56** (5):555-567.

- NIOSH (National Institute for Occupational Safety and Health). 1998. Criteria for a recommended standard: Occupational noise exposure. United States Department of Health and Human Services, Cincinnati, OH.
- Nowacek, D.P., L.H. Thorne, D.W. Johnston, and P.L. Tyack. 2007. Responses of cetaceans to anthropogenic noise. *Mammal Review* **37** (2):81-115.
- Nowacek, S.M., R.S. Wells and A.R. Solow. 2001. Short-term effects of boat traffic on bottlenose dolphins, *Tursiops truncatus*, in Sarasota Bay, FL. *Marine Mammal Science* **17**(4):673-688.
- Nowacek, S.M., Wells, R.S., Owen, E.C., Speakman, T.R., Flamm, R.O. and Nowacek, D.P., 2004. Florida manatees, *Trichechus manatus latirostris*, respond to approaching vessels. *Biological Conservation*, **119**(4), 517-523.
- Nowacek, D.P. 2005. Acoustic ecology of foraging bottlenose dolphins (*Tursiops truncatus*), habitat specific use of three sound types. *Marine Mammal Science* **21**(4):587-602.
- NRC (National Research Council). 2003. Ocean noise and marine mammals. National Academy of Sciences: 220.
- NRC. 2005. Marine mammal populations and ocean noise: Determining when noise causes biologically significant effects. National Academy of Sciences: 142.
- O'keefe, D.J. and Young, G.A., 1984. Handbook on the environmental effects of underwater explosions. *Research and Technology Department, Naval Surface Weapons Center. NSWC/TR*, pp.83-240.
- Parks, S.E., Ketten, D.R., O'Malley, J.T. and Arruda, J., 2007a. Anatomical predictions of hearing in the North Atlantic right whale. *The Anatomical Record*, **290**(6), 734-744.
- Parks, S.E., C.W. Clark, and P.L. Tyack. 2007b. Short- and long-term changes in right whale calling behavior: The potential effects of noise on acoustic communication. *Journal of the Acoustical Society of America* **122** (6):3725-3731.
- Pennington, J.C., T.F. Jenkins, G.A.S. Thiboutot, J.M. Brannon, A.D. Hewitt, J. Lewis, S. Brochu, E. Diaz, M.R. Walsh, M.E. Walsh, S. Taylor, J.C. Lynch, J. Clausen, T.A. Ranney, C.A. Ramsey, C.A. Hayes, C.L. Grant, C.M. Collins, S.R. Bigl, S. Yost, and K. Dontsova. 2006. Distribution and Fate of Energetics on DoD Test and Training Ranges: Final Report. U.S. Army Corps of Engineers, ERDC TR-06-13. November 2006.
- Perrin, W.F. 2002. *Stenella frontalis*. *Mammalian Species* **702**:1-6.
- Perrin, W.F., D.K. Caldwell, and M.C. Caldwell. 1994. Atlantic spotted dolphin-*Stenella frontalis* (G. Cuvier, 1829). Pages 173-190 in Ridgway, S.H. and R. Harrison, eds.

Handbook of marine mammals. Volume 5: The first book of dolphins. San Diego, California: Academic Press.

Perrin, W.F., E.D. Mitchell, J.G. Mead, D.K. Caldwell, M.C. Caldwell, P.J.H. van Bree, and W.H. Dawbin. 1987. Revision of the spotted dolphins, *Stenella* spp. *Marine Mammal Science* 3(2):99-170.

Popov, V.V., A.Y. Supin, D. Wang, K. Wang, L. Dong, and S. Wang. 2011. Noise-induced temporary threshold shift and recovery in Yangtze finless porpoises *Neophocaena phocaenoides asiaeorientalis*. *Journal of the Acoustical Society of America* **130** (1):574-584.

RAND Corporation. 2005. *Unexploded Ordnance Cleanup Costs. Implications of Alternative Protocols*.

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.

Reidenberg, J.S. and Laitman, J.T., 2003. Appearance of odontocete respiratory tissues after exposure to blast parameters. *Environmental consequences of underwater sound*, 12-16.

Richardson, W.J., C.R. Greene, C.I. Malme, and D.H. Thomson. 1995. *Marine Mammals and Noise*. Academic Press, Inc., San Diego, California.

Richardson, W.J. and Würsig, B., 1997. Influences of man-made noise and other human actions on cetacean behaviour. *Marine & Freshwater Behaviour & Phy*, 29(1-4), 183-209.

Richmond, D.R., J.T. Yelverton, and R. Fletcher. 1973. *Far-field Underwater Blast Injuries Produced by Small Charges*. Prepared by the Lavelace Foundation for Medical Education and Research, Albuquerque, NM, for Headquarters, Defense Nuclear Agency, Washington, D.C. 1 July.

Ridgway, S. H., B. L. Scronce, and J. Kanwisher. 1969. Respiration and deep diving in the bottlenose porpoise. *Science*, Vol 166, pp 1651–1654.

Ridgway, S.H. 2000. The auditory central nervous system. Pages 273-293 in Au, W.W.L., A.N. Popper, and R.R. Fay, eds. *Hearing by whales and dolphins*. New York, New York: Springer-Verlag.

Ridgway, S.H., D.A. Carder, R.R. Smith, T. Kamolnick, C.E. Schlundt, and W.R. Elsberry. 1997. Behavioral responses and temporary shift in masked hearing threshold of bottlenose dolphins, *Tursiops truncatus*, to 1-second tones of 141 to 201 dB re 1 μ Pa. Technical Report 1751, Revision 1. San Diego: Naval Sea Systems Command.

- Roberts, J.J., B.D. Best, L. Mannocci, E. Fujioka, P.N. Halpin, D.L. Palka, L.P Garrison, K.D. Mullin, T.V.N Cole, C.B. Khan, W.M. McLellan, D.A. Pabst, G.G. Lockhart. 2015a. Density Model for Bottlenose Dolphin (*Tursiops truncatus*) for the U.S. Gulf of Mexico Version 3.3, 2015-10-07, and Supplementary Report. Marine Geospatial Ecology Lab, Duke University, Durham, North Carolina.
- Roberts, J.J., B.D. Best, L. Mannocci, E. Fujioka, P.N. Halpin, D.L. Palka, L.P Garrison, K.D. Mullin, T.V.N Cole, C.B. Khan, W.M. McLellan, D.A. Pabst, G.G. Lockhart. 2015b. Density Model for Atlantic Spotted Dolphin (*Stenella frontalis*) for the U.S. Gulf of Mexico Version 3.3, 2015-10-07, and Supplementary Report. Marine Geospatial Ecology Lab, Duke University, Durham, North Carolina.
- Roberts, J.J., B.D. Best, L. Mannocci, E. Fujioka, P.N. Halpin, D.L. Palka, L.P Garrison, K.D. Mullin, T.V.N Cole, C.B. Khan, W.M. McLellan, D.A. Pabst, G.G. Lockhart. 2016. Habitat-based cetacean density models for the U.S. Atlantic and Gulf of Mexico. *Scientific Reports* 6:22615.
- Rodacy, P.J., P.K. Walker, S.D. Reber, J. Phelan, and J.V. Andre. 2000. Explosive Detection in the Marine Environment and On Land Using Ion Mobility Spectroscopy; A Summary of Field Tests. Sandia National Laboratories. SAND2000-0921. April 2000.
- Rolland, R.M., S.E. Parks, K.E. Hunt, M. Castellote, P.J. Corkeron, D.P. Nowacek, et al. 2012. Evidence that ship noise increases stress in right whales. *Proceedings of the Royal Society of London Series B Biological Sciences* **279** (1737):2363-2368.
- Romano, T., M. Keogh, and K. Danil. 2002a. Investigation of the effects of repeated chase and encirclement on the immune system of spotted dolphins (*Stenella attenuata*) in the eastern tropical Pacific. Administrative Report LJ-02-35C, National Marine Fisheries Service: 37.
- Romano, T.A., D.L. Felten, S.Y. Stevens, J.A. Olschowka, V. Quaranta, and S.H. Ridgway. 2002b. Immune response, stress, and environment: Implications for cetaceans. Pages 253-279 in C.J. Pfeiffer, ed. *Molecular and Cell Biology of Marine Mammals*. Krieger Publishing Co., Malabar, Florida.
- Romano, T.A., M.J. Keogh, C. Kelly, P. Feng, L. Berk, C.R. Schlundt, et al. 2004. Anthropogenic sound and marine mammal health: Measures of the nervous and immune systems before and after
- Schlundt C.E., J.J. Finneran, D.A. Carder, and S.H. Ridgway. 2000. Temporary threshold shift in masked hearing threshold of bottlenose dolphins, *Tursiops truncatus*, and white whales, *Delphinapterus leucas*, after exposure to intense tones. *Journal of Acoustical Society of America* 107:3496-3508.
- Sellas, A.B., R.S. Wells, and P.E. Rosel. 2005. Mitochondrial and nuclear DNA analyses reveal fine scale geographic structure in bottlenose dolphins (*Tursiops truncatus*) in the Gulf of Mexico. *Conservation Genetics* 6:715-728.

- Seyle H. 1950. Stress and the general adaptation syndrome. *British Medical Journal* June 17:1383-1392.
- 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.
- 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.
- 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.
- Swisdak, M. M., Jr. 1975. *Explosion Effects and Properties: Part I - Explosion Effects in Air*. Naval Surface Weapons Center, Research and Technology Department. Dahlgren, VA.
- Thomson, D. H., and W. J. Richardson, 1995. Marine mammal sounds. Pages 159-204 in Richardson, W. J., C. R. Greene, Jr., C. I. Malme, and D. H. Thomson, eds. *Marine Mammals and Noise*. Academic Press: San Diego, California.
- Teilmann, J., J. Tougaard, L.A. Miller, T. Kirketerp, K. Hansen, and S. Brando. 2006. Reactions of captive harbor porpoises (*Phocoena phocoena*) to pinger-like sounds. *Marine Mammal Science* 22 (2):240-260.
- Turl, C.W. 1993. Low-frequency sound detection by a bottlenose dolphin. *Journal of the Acoustical Society of America* 94(5): 3006-3008.
- U.S. Air Force. 2002. Eglin Gulf Test and Training Range Final Programmatic Environmental Assessment. AAC 46 TW/XPE, Range Environmental Planning Office, Eglin Air Force Base FL. RCS 97-048. November.
- U.S.A.F. 2015. Eglin Gulf Test and Training Range Final Environmental Assessment. RCS 14-363. Eglin Air Force Base, FL. October.
- U.S. Army Corps of Engineers (USACE). 2003. Estimates for Explosives Residue from the Detonation of Army Munitions. ERDC/CRREL TR-03-16. September 2003.
- U.S. Army Corps of Engineers (USACE). 2007. *Explosives Residues Resulting from the Detonation of Common Military Munitions: 2002-2006. Final Report*. February.
- U.S. Commission on Ocean Policy, 2004. An Ocean Blueprint for the 21st Century. Final Report. Washington, DC.
- U.S. Navy. 2013. *Atlantic Fleet Training and Testing Final Environmental Impact Statement/Overseas Environmental Impact Statement*. August 2013.

- U.S. Navy. 2017. *Technical report: Criteria and thresholds for U.S. Navy acoustic and explosive effects analysis (Phase III)*. SSC Pacific, San Diego, California.
- Urlick, R.J. 1983. *Principles of Underwater Sound*. Peninsula Publishing, Los Altos, CA.
- Viada, S.T., R.M. Hammer, R. Racca, D. Hannay, M.J. Thompson, B.J. Balcom, and N.W. Phillips. 2008. Review of potential impacts to sea turtles from underwater explosive removal of offshore structures. *Environmental Impact Assessment Review* **28** (4-5):267-285.
- Viricel A and PE. 2014. Hierarchical population structure and habitat differences in a highly mobile marine species: the Atlantic spotted dolphin. *Mol Ecol.* 2014 Oct;23(20):5018-35. doi: 10.1111/mec.12923. Epub 2014 Oct 8.
- Walker, S.W., C.L. Osburn, T.J. Boyd, L.J. Hamdan, R.B. Coffin, and M.T. Montgomery. 2006. Mineralization of 2,4,6-Trinitrotoluene (TNT) in Coastal Waters and Sediments. Naval Research Laboratory. NRL/FR/6114—06-10, 135. August 21, 2006.
- Ward, W.D. 1997. Effects of high-intensity sound. Pages 1497-1507 in M.J. Crocker, ed. *Encyclopedia of acoustics, Volume III*. John Wiley & Sons, New York.
- Waring, G.T., E. Josephson, K. Maze-Foley, and P.E. Rosel, eds. 2016. *U.S. Atlantic and Gulf of Mexico Marine Mammal Stock Assessments – 2015*. NOAA Technical Memorandum NMFS-NE-238. Department Of Commerce, National Oceanic and Atmospheric Administration, National Marine Fisheries Service, Northeast Fisheries Science Center. Woods Hole, MA. May.
- Waring, G.T., E. Josephson, C.P. Fairfield-Walsh, and K. Maze-Foley, eds. 2006. *U.S. Atlantic and Gulf of Mexico Marine Mammal Stock Assessments – 2005*. NOAA Technical Memorandum NMFS-NE-194:1-346.
- Waring, G. T., E. Josephson, K. Maze-Foley, and P. E. Rosel, eds. 2009. *U.S. Atlantic and Gulf of Mexico Marine Mammal Stock Assessments – 2009*. NOAA Technical Memorandum NMFS-NE-213. U.S. Department Of Commerce, National Oceanic and Atmospheric Administration, National Marine Fisheries Service, Northeast Fisheries Science Center. Woods Hole, MA. December.
- Wartzok, D., & D.R. Ketten. 1999. Marine mammal sensory systems. *Biology of marine mammals, 1*, 117-175. 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., Popper, A. N., Gordon, J., & Merrill, J. 2003. Factors affecting the responses of marine mammals to acoustic disturbance. *Marine Technology Society Journal*, 37(4), 6-15.
- Weilgart, L.S. 2007. A brief review of known effects of noise on marine mammals. *International Journal of Comparative Psychology* **201** (2-3):159-168.

- Wright, A.J., M. Maar, C. Mohn, J. Nabe-Nielsen, U. Siebert, L.F. Jensen, et al. 2013. Possible causes of a harbour porpoise mass stranding in Danish waters in 2005. *PLoS ONE* **8** (2):e55553.
- Würsig, B., Lynn, S.K., Jefferson, T.A. and Mullin, K.D., 1998. Behaviour of cetaceans in the northern Gulf of Mexico relative to survey ships and aircraft. *Aquatic Mammals*, 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., D.R. Richmond, E.R. Fletcher, and R.K. Jones. 1973. Safe distances from underwater explosions for mammals and birds. Report No. 3114T, Defense Nuclear Agency: 70.
- Würsig, B., T.A. Jefferson, and D.J. Schmidly. 2000. *The marine mammals of the Gulf of Mexico*. College Station, Texas: Texas A&M University Press.
- Zaretsky, S.C., A. Martinez, L.P. Garrison, and E.O. Keith. 2005. Differences in acoustic signals from marine mammals in the western North Atlantic and northern Gulf of Mexico. Page 314 in Abstracts, Sixteenth Biennial Conference on the Biology of Marine Mammals. 12-16 December 2005. San Diego, California.