

Taking Marine Mammals Incidental to the U.S. Navy Training and Testing Activities in the Hawaii-Southern California Training and Testing Study Area

- Abramson, L., S. Polefka, S. Hastings, and K. Bor. 2011. Reducing the Threat of Ship Strikes on Large Cetaceans in the Santa Barbara Channel Region and Channel Islands National Marine Sanctuary: Recommendations and Case Studies (Marine Sanctuaries Conservation Series). Silver Spring, MD: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Ocean Service, Office of Ocean and Coastal Resource Management, Office of National Marine Sanctuaries.
- Amaral, K., and C. Carlson. 2005. Summary of non-lethal research techniques for the study of cetaceans. United Nations Environment Programme UNEP (DEC)/CAR WG.27/REF.5. 3p. Regional Workshop of Experts on the Development of the Marine Mammal Action Plan for the Wider Caribbean Region. Bridgetown, Barbados, 18-21 July.
- Arranz, P., Glarou, M., & Sprogis, K. R. 2021. Decreased resting and nursing in short-finned pilot whales when exposed to louder petrol engine noise of a hybrid whale-watch vessel. *Scientific Reports*, 11(1).
- Au, W. W. L., and M. Green. 2000. Acoustic interaction of humpback whales and whale-watching boats. *Marine Environmental Research*, 49(5), 469–481
- Bain, D. E., D. Lusseau, R. Williams, and J. C. Smith. 2006. Vessel traffic disrupts the foraging behavior of southern resident killer whales (*Orcinus* spp.). International Whaling Commission.
- Barkaszi MJ, Fonseca M, Foster T, Malhotra A and Olsen, K (2021) Risk Assessment to Model Encounter Rates Between Large Whales and Vessel Traffic from Offshore Wind Energy on the Atlantic OCS. Sterling (VA): U.S. Department of the Interior, Bureau of Ocean Energy Management. OCS Study BOEM 2021-034. 54 p + Appendices
- Bauer, G. B. 1986. The behavior of humpback whales in Hawaii and modifications of behavior induced by human interventions. (*Megaptera novaeangliae*). University of Hawaii. 314 pp.
- Barlow, J. 2010. *Cetacean Abundance in the California Current Estimated from a 2008 Ship-Based Line-Transect Survey* (NOAA Technical Memorandum NMFS-SWFSC-456). La Jolla, CA: Southwest Fisheries Science Center.
- Barlow, J. 2016. *Cetacean Abundance in the California Current Estimated from Ship-based Linetranssect Surveys in 1991–2014*. (NOAA Administrative Report NMFS-SWFSC-LJ1601). La Jolla, CA: Southwest Fisheries Science Center.
- Barlow, J., and K. A. Forney. 2007. Abundance and population density of cetaceans in the California Current ecosystem. *Fishery Bulletin*, 105, 509–526.
- Becker, E. A., and coauthors. 2020. Habitat-based density estimates for cetaceans in the California Current Ecosystem based on 1991-2018 survey data.
- Becker EA, Foley DG, Forney KA, Barlow J, Redfern JV and Gentemann CL (2012) Forecasting cetacean abundance patterns to enhance management decisions. *Endangered Species Research*. 16:97–112.
- Becker, E. A., K. A. Forney, P. C. Fiedler, J. Barlow, S. J. Chivers, C. A. Edwards, A. M. Moore, and J. V. Redfern. 2016. Moving Towards Dynamic Ocean Management: How Well Do Modeled Ocean Products Predict Species Distributions? *Remote Sensing*, 8(2), 149.
- Bejder, L., S.M. Dawson, and J.A. Harraway. 1999. Responses by Hector's dolphins to boats and swimmers in Porpoise Bay, New Zealand. *Marine Mammal Science*, 15(3):738-750.
- Bejder, L., & Samuels, A. (2003). Evaluating the effects of nature-based tourism on cetaceans. *Marine mammals: Fisheries, tourism and management issues*, 1, 229-256.
- Bejder, L., and D. Lusseau. 2008. Valuable lessons from studies evaluating impacts of cetacean-watch tourism. *Bioacoustics* 17-Jan (3-Jan):158-161. Special Issue on the International Conference on the Effects of Noise on Aquatic Life. Edited by A. Hawkins, A.N. Popper & M. Wahlberg.

Taking Marine Mammals Incidental to the U.S. Navy Training and Testing Activities in the Hawaii-Southern California Training and Testing Study Area

- 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.
- Benti, B., P. J. O. Miller, M. Biuw, and C. Curé. 2021. Indication that the behavioural responses of humpback whales to killer whale sounds are influenced by trophic relationships. *Marine Ecology Progress Series*, 660, 217–232. DOI:10.3354/meps13592
- Benhemma-Le Gall A, Graham IM, Merchant ND and Thompson PM. 2021. Broad-Scale Responses of Harbor Porpoises to Pile-Driving and Vessel Activities During Offshore Windfarm Construction. *Front. Mar. Sci.* 8:664724. doi: 10.3389/fmars.2021.664724
- Berman-Kowalewski, M., F. M. D. Gulland, S. Wilkin, J. Calambokidis, B. Mate, J. Cordaro, D. Rotstein, J. St. Leger, P. Collins, K. Fahy, and S. Dover. 2010. Association between blue whale (*Balaenoptera musculus*) mortality and ship strikes along the California Coast. *Aquatic Mammals*, 36(1), 59–66.
- Berman-Kowalewski M, Gulland FMD, Wilkin S, Calambokidis J, Mate B, Cordaro J, Rotstein D, St. Leger J, Collins P, Fahy K and Dover S. 2010. Association between blue whale (*Balaenoptera musculus*) mortality and ship strikes along the California coast. *Aquat. Mamm.* 36(1): 59–66. doi: 10.1578/AM.36.1.2010.59
- Bernknopf R, Steinkruger A and Kuwayama Y. 2021. Earth Observations Can Enable Cost-Effective Conservation of Eastern North Pacific Blue Whales: A Value of Information Analysis. Valuable-RFF/NASA Consortium. Working Paper 21-09 April 2021.
- Blane, J. M., and R. Jaakson. 1994. The impact of ecotourism boats on the St. Lawrence beluga whales (*Delphinapterus leucas*). *Environmental Conservation*, 21(3), 267-269.
- Blondin H, Abrahms B, Crowder LB and Hazen EL. 2020 Combining high temporal resolution whale distribution and vessel tracking data improves estimates of ship strike risk. *Biological Conservation* 250:108757. <https://doi.org/10.1016/j.biocon.2020.108757>
- Boebel, O. (2017). Exploring the Thermal Limits of IR-Based Automatic Whale Detection. Arlington, VA: Office of Naval Research Program
- Boisseau, O., T. McGarry, S. Stephenson, R. Compton, A.-C. Cucknell, C. Ryan, R. McLanaghan, and A. Moscrop. 2021. Minke whales avoid a 15 kHz acoustic deterrent device. *Marine Ecology Progress Series*. DOI:10.3354/meps13690
- Branstetter, B. K., M. Felice, and T. Robeck. (2021). Auditory masking in killer whales (*Orcinus orca*): Critical ratios for tonal signals in Gaussian noise. *The Journal of the Acoustical Society of America*, 149, 2109–2115. DOI:10.1121/10.0003923
- Branstetter, B.K., Sills, J.M. 2022. Mechanisms of auditory masking in marine mammals. *Anim Cogn* 25, 1029–1047. <https://doi.org/10.1007/s10071-022-01671-z>
- Brewer A. M., Castellote M., Van Cise A. M., Gage T., Berdahl A. M. (2023). Communication in Cook Inlet beluga whales: Describing the vocal repertoire and masking of calls by commercial ship noise. *J. Acoustical Soc. America* 154, 3487–3505. doi: 10.1121/10.0022516
- Bryant, P.J., C.M. Lafferty, and S.K. Lafferty. (1984). Reoccupation of Laguna Guerrero Negro, Baja California, Mexico, by gray whales. (*Eschrichtius robustus*). In: M. L. Jones, S. L. Swartz, and S. Leatherwood (Eds). *The Gray Whale, Eschrichtius robustus*. Academic Press, New York.
- 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. Urbán 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. Olympia, WA: Cascadia Research.

Taking Marine Mammals Incidental to the U.S. Navy Training and Testing Activities in the Hawaii-Southern California Training and Testing Study Area

- Calambokidis, J. (2012). Summary of Ship-Strike Related Research on Blue Whales in 2011. Committee on Taxonomy. 2016. List of Marine Mammal Species & Subspecies - Society for Marine Mammalogy. Retrieved from <https://www.marinemammalscience.org/species-information/listof-marine-mammal-species-subspecies/>.
- Calambokidis, J., Steiger, G. H., Curtice, C., Harrison, J., Ferguson, M., Becker, E., . . . Van Parijs, S. M. (2015). 4. Biologically Important Areas for selected cetaceans within U.S. waters – West coast region. In S. M. Van Parijs, C. Curtice, & M. C. Ferguson (Eds.), *Biologically Important Areas for cetaceans within U.S. waters* (pp. 39-53). *Aquatic Mammals (Special Issue)*, 41(1). 128 pp.
- Calambokidis, J., and J. Barlow. 2020a. Updated abundance estimates for blue and humpback whales along the U.S. West Coast using data through 2018. National Oceanic and Atmospheric Administration, National Marine Fisheries Service, Southwest Fisheries Science Center, La Jolla, CA.
- Calambokidis J., Kratofil, M.A., Palacios, D.M., Lagerquist, B.A., Schorr, G.S., Bradley, H.M., Baird, R.W., Forney, K.A., Becker, E.A., Rockwood, R.C., Hazen, E.L. 2024. Biologically Important Areas II for cetaceans within U.S. and adjacent waters - West Coast Region. *Frontiers in Marine Science*. 11: 2296-7745. DOI: 10.3389/fmars.2024.1283231.
- Campbell, G. S., and coauthors. 2015. Inter-annual and seasonal trends in cetacean distribution, density and abundance off southern California. *Deep Sea Research Part II: Topical Studies in Oceanography* 112:143-157.
- Carretta, J.V., J. Barlow, and L. Enriquez. 2008. Acoustic pingers eliminate beaked whale bycatch in a gill net fishery. *Marine Mammal Science* 24(4):956-961.
- Carretta, J.V., J.E. Moore, and K.A. Forney. 2018a. Estimates of marine mammal, sea turtle, and seabird bycatch from the California large-mesh drift gillnet fishery: 1990-2016. Document PSRG-2018-07 reviewed by the Pacific Scientific Review Group, March 2018. La Jolla, CA.
- Carretta, J.V., V. Helker, M.M. Muto, J. Greenman, K. Wilkinson, D. Lawson, J. Viezbicke, and J. Jannot. 2018b. Sources of human-related injury and mortality for U.S. Pacific West coast marine mammal stock assessments, 2012-2016. Document PSRG-2018-06 reviewed by the Pacific Scientific Review Group, March 2018. La Jolla, CA.
- Carretta, James V., Erin M. Oleson, Karin A. Forney, Marcia M. Muto, David W. Weller, Aimee R. Lang, Jason Baker, Brad Hanson, Anthony J. Orr, Jay Barlow, Jeffrey E. Moore, and Robert L. Brownell Jr. 2022. U.S. Pacific marine mammal stock assessments: 2021. U.S. Department of Commerce, NOAA Technical Memorandum NMFS-SWFSC-663. <https://doi.org/10.25923/246k-7589>
- Carretta JV, Greenman J, Wilkinson K, Freed J, Saez L, Lawson D, Viezbicke J, and Jannot J (2021) Sources of Human-related Injury and Mortality for U.S. Pacific West Coast Marine Mammal Stock Assessments, 2015-2019. U.S. Department of Commerce, NOAA Technical Memorandum NMFS-SWFSC-643
- Carretta, J.V., J.E. Moore, and K.A. Forney. 2018b. Estimates of marine mammal, sea turtle, and seabird bycatch from the California large-mesh drift gillnet fishery: 1990-2016. Document PSRG-2018-07 reviewed by the Pacific Scientific Review Group, March 2018. La Jolla, CA.
- Carretta JV, Greenman J, Wilkinson K, Freed J, Saez L, Lawson D, Viezbicke J, and Jannot J (2021b) Sources of Human-related Injury and Mortality for U.S. Pacific West Coast Marine Mammal Stock Assessments, 2015-2019. U.S. Department of Commerce, NOAA Technical Memorandum NMFS-SWFSC-643

Taking Marine Mammals Incidental to the U.S. Navy Training and Testing Activities in the Hawaii-Southern California Training and Testing Study Area

- Carretta JV, Greenman J, Wilkinson K, Saez L, Lawson D, and Viezbicke J (2022) Sources of Human-related Injury and Mortality for U.S. Pacific West Coast Marine Mammal Stock Assessments, 2016-2020. U.S. Department of Commerce, NOAA Technical Memorandum NMFS-SWFSC-670.
- Carretta JV, Greenman J, Wilkinson K, Saez L, Lawson D, and Viezbicke J (2023) Sources of Human-related Injury and Mortality for U.S. Pacific West Coast Marine Mammal Stock Assessments, 2017-2021. U.S. Department of Commerce, NOAA Technical Memorandum NMFS-SWFSC-690.
- Carretta, James V., Erin M. Oleson, Karin A. Forney, Marcia M. Muto, David W. Weller, Aimee R. Lang, Jason Baker, Brad Hanson, Anthony J. Orr, Jay Barlow, Jeffrey E. Moore, and Robert L. Brownell Jr. 2022. U.S. Pacific marine mammal stock assessments: 2021. U.S. Department of Commerce, NOAA Technical Memorandum NMFS-SWFSC-663.
<https://doi.org/10.25923/246k-7589>
- Ceciarini, I., Franchi, E., Capanni, F., Consales, G., Minoia, L., Ancora, S., D'Agostino, A., Lucchetti, A., Li Veli, D., and Marsili, L. 2023. Assessment of interactive acoustic deterrent devices set on trammel nets to reduce dolphin–fishery interactions in the Northern Tyrrhenian Sea. *Scientific Reports*. 13:20680. <https://doi.org/10.1038/s41598-023-46836-z>
- Clifton CW, Silva-Krott I, Marsik MG and West KL (2023) Targeted surveillance detected novel beaked whale circovirus in ten new host cetacean species across the Pacific basin. *Front. Mar. Sci.* 9:945289. doi: 10.3389/fmars.2022.945289
- Crum N, Gowan T, Krzystan A and Martin J (2019) Quantifying risk of whale–vessel collisions across space, time, and management policies. *Ecosphere*. 10(4):e02713
- 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).
- Corkeron, P. J. (1995). Humpback whales (*Megaptera novaeangliae*) in Hervey Bay, Queensland: Behaviour and responses to whale-watching vessels. *Canadian Journal of Zoology*, 73(7):1290-1299.
- Cusato, A. 2021. Slow and Steady Saves the Whales: Preventing Vessel Strikes on Whales in the Santa Barbara Channel. William & Mary Environmental Law and Policy Review 45 (2020-2021): Issue 3 Symposium Issue: Sustainability in the City, Article 10. April 2021.
<https://scholarship.law.wm.edu/wmelpr/vol45/iss3/1>
- Curé, C., S. Isojunno, M. L. Siemensma, P. J. Wensveen, C. Buisson, L. D. Sivle, B. Benti, R. Roland, P. H. Kvadsheim, F.-P. A. Lam, and P. J. O. Miller. 2021. Severity scoring of behavioral responses of Sperm Whales (*Physeter macrocephalus*) to novel continuous versus conventional pulsed active sonar. *Journal of Marine Science and Engineering*, 9(444). DOI:10.3390/jmse9040444
- Curtis, K. A., Calambokidis, J., Audley, K., Castaneda, M. G., De Weerd, J., Garcia Chavez, A. J., Garita, F., Martinez-Loustalot, P., Palacios-Alfaro, J. D., Perez, B., Quintana-Rizzo, E., Ramirez Barragan, R., Ransome, N., Rasmussen, K., Urban R., J., Villegas Zurita, F., Flynn, K., Cheeseman, T., Barlow, J., Steel, D., Moore, J. 2022. Abundance of humpback whales (*Megaptera novaeangliae*) wintering in Central America and southern Mexico from a one-dimensional spatial capture-recapture model.
- Czapanskiy, M. F., M. S. Savoca, W. T. Gough, P. S. Segre, D. M. Wisniewska, D. E. Cade, and J. A. Goldbogen. (2021). Modelling short-term energetic costs of sonar disturbance to cetaceans using high-resolution foraging data. *Journal of Applied Ecology*. DOI:10.1111/1365-2664.13903

Taking Marine Mammals Incidental to the U.S. Navy Training and Testing Activities in the Hawaii-Southern California Training and Testing Study Area

- Danil, K., N. Beaulieu-McCoy, S. Dennison, D. Rotstein, T. Rowles, and S. Wilkin. (2021). *Uncommon Stranding Event of Bottlenose Dolphins (Tursiops truncatus) in San Diego, California (October 2015)*. La Jolla, CA: National Oceanic and Atmospheric Administration, National Marine Fisheries Service, Southwest Fisheries Science Center.
- Dave, D.M. and Dave, M (2023). A Study on Effects of Anthropological Noise on Marine Life. *International Journal of Current Science Research and Review*, 6(9), 6497-6502
- Debich, A.J., S. Baumann-Pickering, A. Širović, J.A. Hildebrand, A.L. Alldredge, R.S. Gottlieb, S.T. Herbert, S.C. Johnson, A.C. Rice, L.K. Roche, and B.J. Thayre. 2015a. Passive Acoustic Monitoring for Marine Mammals in the SOCAL Naval Training Area Dec 2012-Jan 2014. Scripps Institution of Oceanography, Marine Physical Laboratory, La Jolla, CA.
- Debich, A.J., S. Baumann-Pickering, A. Širović, J.A. Hildebrand, S.T. Herbert, S.C. Johnson, A.C. Rice, J.S. Trickey, and S.M. Wiggins. 2015b. Passive Acoustic Monitoring for Marine Mammals in the SOCAL Range Complex January-July 2014. Marine Physical Laboratory, Scripps Institution of Oceanography, La Jolla, CA, p.43.
- Douglas, A. B., J. Calambokidis, S. Raverty, S. J. Jeffries, D. M. Lambourn, and S. A. Norman. (2008). Incidence of ship strikes of large whales in Washington State. *Journal of the Marine Biological Association of the United Kingdom*, 88(6), 1121–1132.
- Dunlop, R. (2024). Use of a behavioural response method to assess the risk of collision between migrating humpback whales and vessels. *Marine Pollution Bulletin*. 199: 115986. <https://doi.org/10.1016/j.marpolbul.2023.115986>
- Dunlop, R. A., J. Braithwaite, L. O. Mortensen, and C. M. Harris. (2021). Assessing population-level effects of anthropogenic disturbance on a marine mammal population. *Frontiers in Marine Science*, 8. DOI:10.3389/fmars.2021.624981
- Durbach, I. N., C. M. Harris, C. Martin, T. A. Helble, E. E. Henderson, G. Ierley, L. Thomas, and S. W. Martin. (2021). Changes in the Movement and Calling Behavior of Minke Whales (*Balaenoptera acutorostrata*) in Response to Navy Training. *Frontiers in Marine Science*, 8. DOI:10.3389/fmars.2021.660122
- Durban, J.W., Southall, B.L, Calambokidis, J., Casey, C., Fearnbach, H., Joyce, T.W., Fahlbusch, J.A., Oudejans, M.G., Fregosi, S., Friedlaender, A.S., Kellar, N.M., Visser, F. 2022. Integrating remote sensing methods during controlled exposure experiments to quantify group responses of dolphins to navy sonar. *Marine Pollution Bulletin*. 174. DOI: <https://doi.org/10.1016/j.marpolbul.2021.113194>
- Elmegaard, S. L., B. I. McDonald, J. Teilmann, and P. T. Madsen. (2021). Heart rate and startle responses in diving, captive harbour porpoises (*Phocoena phocoena*) exposed to transient noise and sonar. *The Company of Biologists*, 10. DOI:10.1242/bio.058679
- Elmegaard, S.L., Teilmann, J., Rojano-Donate, L., Brennecke, D., Mikkelsen, L., Balle, J.D., Gosewinkel, U., Kyhn, L.A., Tonnesen, P., Wahlberg, M., Ruser, A., Siebert, U., Telberg Madsen, P. (2023) Scientific Reports. 13:16691. <https://doi.org/10.1038/s41598-023-43453-8>
- Eguchi, T., Lang, A. R., & Weller, D. W. (2022). Abundance and migratory phenology of eastern North Pacific gray whales 2021/2022. U.S. Department of Commerce, NOAA Technical Memorandum NMFS-SWFSC-668. <https://doi.org/10.25923/x88y-8p07>
- Eguchi, Tomo, Aimée Lang, and David Weller. 2024. Abundance of eastern North Pacific gray whales 2023/2024. U.S. Department of Commerce, NOAA Technical Memorandum NMFS-SWFSC-695. <https://doi.org/10.25923/n5qa-0y54>

Taking Marine Mammals Incidental to the U.S. Navy Training and Testing Activities in the Hawaii-Southern California Training and Testing Study Area

- Erbe, C., A. MacGillivray, and R. Williams. (2012). Mapping cumulative noise from shipping to inform marine spatial planning. *The Journal of the Acoustical Society of America*, 132(5), EL423–EL428. DOI:10.1121/1.4758779
- 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), 394–418.
- Evans, P. G. H., P. J. Canwell, and E. J. Lewis. (1992). An experimental study of the effects of pleasure craft noise upon bottle-nosed dolphins in Cardigan Bay, West Wales. Pages 43-46 in P. G. H. Evans, eds. *European research on cetaceans*. European Cetacean Society, Cambridge.
- Evans, P. G. H., Q. Carson, P. Fisher, W. Jordan, R. Limer, and I. Rees. (1994). A study of the reactions of harbour porpoises to various boats in the coastal waters of southeast Shetland. *European Research on Cetaceans* 8: 60-64.
- Fahlman, A., M. J. Moore, and R. S. Wells. (2021). How do marine mammals manage and usually avoid gas emboli formation and gas embolic pathology? Critical clues from studies of wild dolphins. *Frontiers in Marine Science*, 8. Retrieved April 13, 2021, from <https://doi.org/10.3389/fmars.2021.598633>.
- Falcone, E.A., G.S. Schorr, A.B. Douglas, J. Calambokidis, E. Henderson, M.F. McKenna, J. Hildebrand, and D. Moretti. 2009. Sighting characteristics and photo-identification of Cuvier's beaked whales (*Ziphius cavirostris*) near San Clemente Island, California: a key area for beaked whales and the military? *Marine Biology* 156(12):2631-2640.
- Falcone, E. A., and G. S. Schorr. (2012). *Distribution and demographics of marine mammals in SOCAL through photo-indentification, genetics, and satellite telemetry: a summary of surveys conducted 1 July 2011 - 15 June 2012*. Monterey, CA: U.S. Navy Postgraduate School.
- Falcone, E. A., & G. S. Schorr. (2014). *Distribution and Demographics of Marine Mammals in SOCAL through Photo-Identification, Genetics, and Satellite Telemetry* (Prepared for Chief of Naval Operations Energy and Environmental Readiness Division: NPS-OC-14-005CR). Monterey, CA: U.S. Navy Post Graduate School.
- Falcone, E. A., Keene, E., Keen, E., Barlow, J. 2022. Movements and residency of fin whales (*Balaenoptera physalus*) in the California Current System. *Mammalian Biology*: 1-18.
- Félix, F. 2001. Observed changes of behavior in humpback whales during whale watching encounters off Ecuador. 14th Biennial Conference on the Biology of Marine Mammals, Vancouver, Canada.
- Fernández, A., Edwards, J.F., Rodríguez, F., Espinosa de los Monteros, A., Herráez, P., Castro, P., Jaber, J.R., Martín, V., and Arbelo, M. 2005. 'Gas and fat embolic syndrome' involving a mass stranding of beaked whales (family *Ziphiidae*) exposed to anthropogenic sonar signals. *Vet. Pathol.* 42: 446-57.
- Fernandez-Betelu, O., I. M. Graham, K. L. Brookes, B. J. Cheney, T. R. Barton, and P. M. Thompson. (2021). Far-field effects of impulsive noise on coastal bottlenose dolphins. *Frontiers in Marine Science*, 8. DOI:10.3389/fmars.2021.664230
- Fonnesbeck, C. J., L. P. Garrison, L. I. Ward-Geiger, and R. D. Baumstark. (2008). Bayesian hierarchical model for evaluating the risk of vessel strikes on North Atlantic right whales in the SE United States. *Endangered Species Research*, 6(1), 87-94.
- Fournet, M. E. H., M. Silvestri, C. W. Clark, H. Klinck, and A. N. Rice. (2021). Limited vocal compensation for elevated ambient noise in bearded seals: Implications for an industrializing Arctic Ocean. *Proceedings of the Royal Society B*, 288. Retrieved April 16, 2021, from <https://doi.org/10.1098/rspb.2020.2712>.
- Frankish, C.K., von Benda-Beckmann, A.M., Teilmann, J., Tougaard, J., Dietz, R., Sveegaard, S., Binnerts, B., de Jong, C.A.F., Nabe-Nielsen, J. (2023) Ship noise causes tagged harbour

Taking Marine Mammals Incidental to the U.S. Navy Training and Testing Activities in the Hawaii-Southern California Training and Testing Study Area

- porpoises to change direction or dive deeper. *Marine Pollution Bulletin*. 197: 115755.
<https://doi.org/10.1016/j.marpolbul.2023.115755>
- Gende, S. M., A. N. Hendrix, K. R. Harris, B. Eichenlaub, J. Nielsen, and S. Pyare. (2011). A Bayesian approach for understanding the role of ship speed in whale-ship encounters. *Ecological Applications*, 21(6), 2232–2240.
- Glass A.H., Cole T.V.N., Garron M., Merrick R.L., Pace R.M. III. 2008. Mortality and serious injury determinations for baleen whale stocks along the United States eastern seaboard and adjacent Canadian Maritimes, 2002-2006. US Dept Commer, Northeast Fish Sci Cent Ref Doc. 08-04; 18 p. Available from: National Marine Fisheries Service, 166 Water Street, Woods Hole, MA 02543-1026.
- Goldbogen, J. A., B. L. Southall, S. L. DeRuiter, J. Calambokidis, A. S. Friedlaender, E. L. Hazen, E. A. Falcone, G. S. Schorr, A. Douglas, D. J. Moretti, C. Kyburg, M. F. McKenna, and P. L. Tyack. (2013). Blue whales respond to simulated mid-frequency military sonar. *Proceedings of Biological Science*, 280(1765), 20130657.
- Gotz, T., A. F. Pacini, P. E. Nachtigall, and V. M. Janik. (2020). The startle reflex in ecological odontocetes: Basic physiology and practical implications. *Journal of Experimental Biology*, 223.
- Goodwin, L., and P. A. Cotton. 2004. Effects of boat traffic on the behaviour of bottlenose dolphins (*Tursiops truncatus*). *Aquatic Mammals*, 30(2), 279-283.
- Gransier, R. and R.A. Kastelein. 2024. Similar susceptibility to temporary hearing threshold shifts despite different audiograms in harbor porpoises and harbor seals. *Journal of the Acoustical Society of America* 155:396-404.
- Greenfield, M. R., K. A. McHugh, R. S. Wells, and D. I. Rubenstein. (2020). Anthropogenic injuries disrupt social associations of common bottlenose dolphins (*Tursiops truncatus*) in Sarasota Bay, Florida. *Marine Mammal Science*, 37(1), 29–44. DOI:10.1111/mms.12729
- Hastie, G. D., P. Lepper, C. McKnight, R. Milne, D. J. F. Russell, and D. Thompson. (2021). Acoustic risk balancing by marine mammals: anthropogenic noise can influence the foraging decisions by seals. *British Ecological Society*. DOI:10.1111/1365-2664.13931
- Hausner A, Samhuri JF, Hazen EL, Delgerjargal D and Abrahms B (2021) Dynamic strategies offer potential to reduce lethal ship collisions with large whales under changing climate conditions. *Marine Policy* 130:104565. <https://doi.org/10.1016/j.marpol.2021.104565>
- Hildebrand, J. A. (2009). Anthropogenic and natural sources of ambient noise in the ocean. *Marine Ecology Progress Series*, 395, 5–20.
- Hiley, H. M., Janik, V., Gotz, T. (2021). Behavioral reactions of harbor porpoises *Phocoena phocoena* to startle-eliciting stimuli: movement responses and practical applications. *Marine Ecology Progress Series* 672: 223–241.
- Hin, V., J. Harwood, and A. M. de Roos. (2021). Density dependence can obscure nonlethal effects of disturbance on life history of medium-sized cetaceans. *PLoS One*, 16(6). DOI:10.1371/journal.pone.0252677
- Hin, V., J. Harwood, and A. Roos. (2019). Bio-energetic modeling of medium-sized cetaceans shows high sensitivity to disturbance in seasons of low resource supply. *Ecological Applications*, 25(5), 1–19.
- Holt, M. M., J. B. Tennessen, M. B. Hanson, C. K. Emmons, D. A. Giles, J. T. Hogan, and M. J. Ford. (2021a). Vessels and their sounds reduce prey capture effort by endangered killer whales (*Orcinus orca*). *Marine Environmental Research*, 170. DOI:10.1016/j.marenvres.2021.105429

Taking Marine Mammals Incidental to the U.S. Navy Training and Testing Activities in the Hawaii-Southern California Training and Testing Study Area

- Holt, M. M., J. B. Tennessen, E. J. Ward, M. B. Hanson, C. K. Emmons, D. A. Giles, and J. T. Hogan. (2021b). Effects of vessel distance and sex on the behavior of endangered killer whales. *Frontiers in Marine Science*, 7. DOI:10.3389/fmars.2020.582182
- Houser DS, Martin SW, Finneran JJ. Behavioral responses of California sea lions to mid-frequency (3250-3450 Hz) sonar signals. 2013. *Mar Environ Res*. 92:268-78. doi: 10.1016/j.marenvres.2013.10.007.
- Houser, D.S., P.H. Kvadsheim, L. Kleinvane, J. Mulsow, R.A. Ølberg, C.A. Harms, J. Teilmann, and J.J. Finneran. 2024. Direct hearing measurements in a baleen whale suggest ultrasonic sensitivity. *Science* 386: 902–906. DOI: 10.1126/science.ado7580
- Indeck, K.L., Gehrmann, R., Richardson, A.L., Barclay, D., Baumgartner, M.F., Nolet, V., Davies, K.T.A. (2024). Variation in glider-detected North Atlantic right, blue, and fin whale calls in proximity to high-traffic shipping lanes. *Endangered Species Research*. Vol. 54: 191–217, <https://doi.org/10.3354/esr01327>
- Isojunno, S., von Benda-Beckmann, A.M., Wensveen, P.J., Kvadsheim, P.H., Lam, F-P.A., Gkikopoulou, K.C., Pöyhönen, V., Tyack, P.L., Benti, B., Foskolos, I., Bort, J., Neves, M., Biassoni, N., Miller, P.J.O. 2021. Sperm whales exhibit variation in echolocation tactics with depth and sea state but not naval sonar exposures. *Marine Mammal Science*. 38(2). P. 682-704. <https://doi.org/10.1111/mms.12890>
- Isojunno, S., P. J. Wensveen, F. P. A. Lam, P. H. Kvadsheim, A. M. Von Benda-Beckmann, L. M. M. Lopez, L. Kleivane, E. M. Siegal, and P. J. O. Miller. (2020). When the noise goes on: Received sound energy predicts sperm whale responses to both intermittent and continuous navy sonar. *Journal of Experimental Biology*, 223(7).
- Jacobson., E.K., Henderson, E.E., Miller, D.L., Oedekoven, C.S., Moreetti, D.J., Tomas, L. 2022. Quantifying the response of Blainville's beaked whales to U.S. naval sonar exercises in Hawaii. *Marine Mammal Science*. 1-17. DOI: 10.1111/mms.12944
- Jensen, A. S., and G. K. Silber. (2003). *Large Whale Ship Strike Database*. Retrieved from: <http://www.nmfs.noaa.gov/pr/overview/publicat.html>
- Jones-Todd, C. M., Pirota, E., Durban, J.W., Claridge, D.E., Baird, R.W., Falcone, E.A., Schorr, G.S., Watwood, S., Thomas, L. (2021). Discrete-space continuous-time models of marine mammal exposure to Navy sonar. *Ecological Applications*.
- Joyce, T. W., J. W. Durban, D. E. Claridge, C. A. Dunn, L. S. Hickmott, H. Fearnbach, K. Dolan, K. and D. Moretti. (2019). Behavioral responses of satellite tracked Blainville's beaked whales (*Mesoplodon densirostris*) to mid-frequency active sonar. *Marine Mammal Science*.
- Joy. R., Schick, R.S., Dowd, M., Margolina, T., Joseph, J.E., Thomas, L. 2022. A fine-scale marine mammal movement model for assessing long-term aggregate noise exposure. *Ecological Modeling*. 464. <https://doi.org/10.1016/j.ecolmodel.2021.109798>
- Keen EM, Scales KL, Rone BK, Hazen EL, Falcone EA, Schorr GS (2019) Night and Day: Diel Differences in Ship Strike Risk for Fin Whales (*Balaenoptera physalus*) in the California Current System. *Frontiers in Marine Science* 6:730. doi: 10.3389/fmars.2019.00730
- Kastelein RA, Steen N, Gransier R, Wensveen PJ, de Jong CA. Threshold received sound pressure levels of single 1-2 kHz and 6-7 kHz up-sweeps and down-sweeps causing startle responses in a harbor porpoise (*Phocoena phocoena*). *J Acoust Soc Am*. 2012 Mar; 131(3):2325-33. doi: 10.1121/1.3682032. PMID: 22423727.
- Kastelein, R.A., Helder-Hoek, L., Covi, J., Terhune, J.M., Klump, G. 2021c. Masking release at 4 kHz in harbor porpoises (*Phocoena phocoena*) associated with sinusoidal amplitude-modulated

Taking Marine Mammals Incidental to the U.S. Navy Training and Testing Activities in the Hawaii-Southern California Training and Testing Study Area

masking noise. *The Journal of the Acoustical Society of America*. 150(3). DOI:

10.1121/10.0006103

- Kastelein, R. A., Helder-Hoek, L., Defiliet, L. N., Van Acoleyen, L.V., Huijser, L. A. E., & Terhune, J. M. (2022a). Temporary hearing threshold shift in California sea lions (*Zalophus californianus*) due to one-sixth-octave noise bands centered at 0.6 and 1 kHz. *Aquatic Mammals*, 48(3) 248-265. DOI 10.1578/AM.48.3.2022.248
- Kastelein, R. A., Helder-Hoek, L., Defiliet, L. N., Kuiphof, F., Huijser, L. A. E., & Terhune, J. M. (2022b). Temporary hearing threshold shift in California sea lions (*Zalophus californianus*) due to one-sixth-octave noise bands centered at 8 and 16 kHz: Effect of duty cycle and testing the equal-energy hypothesis. *Aquatic Mammals*, 48(1), 36-58. DOI 10.1578/AM.48.1.2022.36
- Kastelein, R.A., Helder-Hoek, L., Defiliet, L.N., Kuiphof, F., Huijser, L.A.E., and Terhune, J.M. (2024). Temporary hearing threshold shift in California sea lions (*Zalophus californianus*) due to one-sixth-octave noise bands centered at 32 kHz,” *Aquat. Mammal.* in prep).
- Kastelein, R. A., de Jong, C.A.F., Tougaard, J., Helder-Hoek, L., Defiliet, L. N. (2022c) Behavioral Responses of a Harbor Porpoise (*Phocoena phocoena*) Depend on the Frequency Content of Pile-Driving Sounds. *Aquatic Mammals*, 48(2) 97-109. DOI 10.1578/AM.48.2.2022.97
- Kastelein, R. A., L. Helder-Hoek, S. A. Cornelisse, L. N. Defiliet, and L. A. E. Huijser. (2020a). Temporary threshold shift in a second harbor porpoise (*Phocoena phocoena*) after exposure to a one-sixth-octave noise band at 1.5 kHz and a 6.5 kHz continuous wave. *Aquatic Mammals*, 46(5), 431–443. DOI:10.1578/am.46.5.2020.431
- Kastelein, R. A., L. Helder-Hoek, S. A. Cornelisse, L. N. Defiliet, L. A. E. Huijser, and R. Gransier. (2021a). Temporary hearing threshold shift in a harbor porpoise (*Phocoena phocoena*) due to exposure to a continuous one-sixth-octave noise band centered at 0.5 kHz. *Aquatic Mammals*, 47(2), 135–145.
- Kastelein, R. A., L. Helder-Hoek, S. A. Cornelisse, L. N. Defiliet, L. A. E. Huijser, and J. M. Terhune. (2020b). Temporary hearing threshold shift in harbor seals (*Phoca vitulina*) due to one-sixth-octave noise bands centered at 0.5, 1, and 2 kHz. *The Journal of the Acoustical Society of America*, 148(6), 3873–3885. DOI:10.1121/10.0002781
- Kastelein, R. A., L. Helder-Hoek, S. A. Cornelisse, L. A. E. Huijser, and R. Gransier. (2020c). Temporary hearing threshold shift at ecologically relevant frequencies in a harbor porpoise (*Phocoena phocoena*) due to exposure to a noise band centered at 88.4 kHz. *Aquatic Mammals*, 46(5), 444–453. DOI:10.1578/am.46.5.2020.444
- Kastelein, R. A., L. Helder-Hoek, S. A. Cornelisse, A. M. von Benda-Beckmann, F. A. Lam, C. A. F. de Jong, and D. R. Ketten. (2020d). Lack of reproducibility of temporary hearing threshold shifts in a harbor porpoise after exposure to repeated airgun sounds. *The Journal of the Acoustical Society of America*, 148(2). DOI:10.1121/10.0001668
- Kastelein, R. A., L. Helder-Hoek, L. N. Defiliet, L. A. E. Huijser, J. M. Terhune, and R. Gransier. (2021b). Temporary hearing threshold shift in California Sea Lions (*Zalophus californianus*) due to one-sixth-octave noise bands centered at 2 and 4 kHz: Effect of duty cycle and testing the equal-energy hypothesis. *Aquatic Mammals*, 47(4), 394–418. DOI:10.1578/AM.47.4.2021.394
- Kastelein, R. A., C. Parlog, L. Helder-Hoek, S. A. Cornelisse, L. A. E. Huijser, and J. M. Terhune. (2020e). Temporary hearing threshold shift in harbor seals (*Phoca vitulina*) due to a one-sixth-octave noise band centered at 40 kHz. *The Journal of the Acoustical Society of America*, 147(3), 1966–1976. DOI:10.1121/10.0000908
- Kates Varghese, H. S. C. 2021. The Effect of Deep-Water Multibeam Mapping Activity on the Foraging Behavior of Cuvier’s Beaked Whales and the Marine Acoustic Environment.

Taking Marine Mammals Incidental to the U.S. Navy Training and Testing Activities in the Hawaii-Southern California Training and Testing Study Area

- Keen K.A., Beltran R.S., Pirotta E., Costa D.P. 2021. Emerging themes in Population Consequences of Disturbance models. *Proc. R. Soc. B.* 288: 20210325. <https://doi.org/10.1098/rspb.2021.0325>
- Ketten, D.R. 1994. Functional analyses of whale ears: adaptations for underwater hearing. *Proceedings of OCEANS'94*, Brest, France, 1994, pp. I/264-I/270 vol.1, doi: 10.1109/OCEANS.1994.363871.
- Königson, S., Naddafi, R., Hedgärde, M., Pettersson A., Östman, Ö., Norrman, E.B., Amundin, M. 2021. Will harbor porpoises (*Phocoena phocoena*) be deterred by a pinger that cannot be used as a “dinner bell” by seals? *Marine Mammal Science*. 38:469–485. DOI: 10.1111/mms.12880
- Königson, S., Naddafi, R., Hedgärde, M., Pettersson, A., Östman, Ö., Benavente Norrman, E., Mats Amundin, M. 2022. Will harbor porpoises (*Phocoena phocoena*) be deterred by a pinger that cannot be used as a “dinner bell” by seals? *Marine Mammal Science*. 38(2). doi: 10.1111/mms.12880
- Kratofil MA, Harnish AE, Mahaffy SD, Henderson EE, Bradford AL, Martin SW, Lagerquist BA, Palacios DM, Oleson EM and Baird RW (2023) Biologically Important Areas II for cetaceans within U.S. and adjacent waters – Hawai‘i Region. *Front. Mar. Sci.* 10:1053581. doi: 10.3389/fmars.2023.1053581
- Kuehne, L. M., C. Erbe, E. Ashe, L. T. Bogaard, M. S. Collins, and R. Williams. (2020). Above and below: Military aircraft noise in air and under water at Whidbey Island, Washington. *Journal of Marine Science and Engineering*, 8. DOI:10.3390/jmse8110923
- Kuehne, L. M. and J. D. Olden. (2020). Military flights threaten the wilderness soundscapes of the Olympic Peninsula. *Northwest Science*, 94(2), 188–202.
- 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.
- Laborie, J., F. Christiansen, K. Beedholm, P. T. Madsen, and K. Heerah. (2021). Behavioural impact assessment of unmanned aerial vehicles on Weddell seals (*Leptonychotes weddellii*). *Journal of Experimental Marine Biology and Ecology*, 536. Retrieved April 13, 2021, from <https://doi.org/10.1016/j.jembe.2020.151509>.
- Leaper R (2019) The role of slower vessel speeds in reducing greenhouse gas emissions, underwater noise, and collision risk to whales. *Frontiers in Marine Science*. 6:1-8. <https://doi.org/10.3389/fmars.2019.00505>
- Laggner, D. (2009). Blue whale (*Baleoptera musculus*) ship strike threat assessment in the Santa Barbara Channel, California. (Master's Thesis). Evergreen State College.
- Lammers, A., A. Pack, and L. Davis. 2003. Historical evidence of whale/vessel collisions in Hawaiian waters (1975-present). Ocean Science Institute. Lemon, M., T.P. Lynch, D.H. Cato, and R.G. Harcourt. 2006. Response of travelling bottlenose dolphins (*Tursiops aduncus*) to experimental approaches by a powerboat in Jervis Bay, New South Wales, Australia. *Biological Conservation* 127(4):363-372.
- Lemon, M., T. P. Lynch, D. H. Cato, and R. G. Harcourt. (2006). Response of travelling bottlenose dolphins (*Tursiops aduncus*) to experimental approaches by a powerboat in Jervis Bay, New South Wales, Australia. *Biological Conservation*, 127(4), 363-372.
- Lusseau, D. (2003). Effects of tour boats on the behavior of bottlenose dolphins: Using Markov chains to model anthropogenic impacts. *Conservation Biology*, 17(6), 1785-1793.
- Lusseau, D. (2006). The short-term behavioral reactions of bottlenose dolphins to interactions with boats in Doubtful Sound, New Zealand. *Marine Mammal Science*, 22(4), 802–818.
- Magalhaes, S., and coauthors. 2002. Short-term reactions of sperm whales (*Physeter macrocephalus*) to whale-watching vessels in the Azores. *Aquatic Mammals*. 28(3):267- 274.

Taking Marine Mammals Incidental to the U.S. Navy Training and Testing Activities in the Hawaii-Southern California Training and Testing Study Area

- Manzano-Roth, R., Henderson, E.E., Alongi, G.C., Martin, C.R., Martin, S.W., Matsuyama, B. Dive characteristics of Cross Seamount beaked whales from long-term passive acoustic monitoring at the Pacific Missile Range Facility, Kaua'i. *Marine Mammal Science*. 39:22–41. DOI: 10.1111/mms.12959
- Martin J, Sabatier Q, Gowan TA, Giraud C, Gurarie E, Calleson CS, Ortega-Ortiz JG, Deutsch CJ, Rycyk A and Koslovsky SM (2016) A quantitative framework for investigating risk of deadly collisions between marine wildlife and boats. *Methods in Ecology and Evolution* 7:42–50. <https://doi.org/10.1111/2041-210X.12447>
- Martin, M., Gridley, T., Elwen, S.H., Charrier, I. Assessment of the impact of anthropogenic airborne noise on the behaviour of Cape fur seals during the breeding season in Namibia. *Journal of Experimental Marine Biology and Ecology*. 550. 151721. <https://doi.org/10.1016/j.jembe.2022.151721>
- Matthews, L.P., and Parks, S.E. 2021. An overview of North Atlantic right whale acoustic behavior, hearing capabilities, and responses to sound. *Marine Pollution Bulletin*. 173. 113043. <https://doi.org/10.1016/j.marpolbul.2021.113043>
- Mate, B. R., D. M. Palacios, C. S. Baker, B. A. Lagerquist, L. M. Irvine, T. Follett, D. Steel, C. E. Hayslip, and M. H. Winsor. (2018). Baleen Whale Tagging in Support of Marine Mammal Monitoring Across Multiple Navy Training Areas Covering the Years 2014, 2015, 2016, and 2017. Final Report. San Diego, CA: Naval Facilities Engineering Command Southwest.
- McHuron, E.A., Aerts, L., Gailey, G., Sychenko, O., Costa, D.P., Mangel, M., Schwarz, L.K. (2021). Predicting the population consequences of acoustic disturbance, with application to an endangered gray whale population. *Ecological Applications*: e02440.
- McKenna M F, Calambokidis J, Oleson EM, Laist DW, Goldbogen J A (2015) Simultaneous tracking of blue whales and large ships demonstrates limited behavioral responses for avoiding collision. *Endanger. Species Res.* 27:219–232. doi: 10.3354/esr00666
- Mercado, E., III. (2021). Spectral interleaving by singing humpback whales: Signs of sonar. *The Journal of the Acoustical Society of America*, 149(2). DOI:10.1121/10.0003443
- Miller, P.J.O, Isojunno, S., Siegal, E., Cure, C. 2022. Behavioral responses to predatory sounds predict sensitivity of cetaceans to anthropogenic noise within a soundscape of fear. *PNAS*. 119(3). <https://doi.org/10.1073/pnas.2114932119>
- Mintz, J. D. 2012. Vessel Traffic in the Hawaii-Southern California and Atlantic Fleet Testing and Training Study Areas. Center for Naval Analysis, Alexandria, VA
- Mintz, J. D. 2016. Characterization of Vessel Traffic in the Vicinities of HRC, SOCAL, and the Navy Operating Areas off the U.S. East Coast. Center for Naval Analyses, Environment and Energy Team, Resource Analysis Division.
- Mintz, J. D., and R. J. Filadelfo. 2011. Exposure of Marine Mammals to Broadband Radiated Noise, CRM D0024311.A2/Final.
- Mintz, J. D., and C. L. Parker. 2006. Vessel Traffic and Speed Around the U.S. Coasts and Around Hawaii. Center for Naval Analysis, Alexandria, VA.
- Monnahan, C. C., T. A. Branch, K. M. Stafford, Y. V. Ivashchenko, and E. M. Oleson. 2014. Estimating historical eastern North Pacific blue whale catches using spatial calling patterns. *PLoS One* 9(6):e98974.
- Monnahan, C.C., T.A. Branch, and A.E. Punt. 2015. Do ship strikes threaten the recovery of endangered eastern North Pacific blue whales? *Marine Mammal Science*. 31(1), 279-297.
- 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.

Taking Marine Mammals Incidental to the U.S. Navy Training and Testing Activities in the Hawaii-Southern California Training and Testing Study Area

- Moretti, D., L. Thomas, T. Marques, J. Harwood, A. Dilley, B. Neales, J. Shaffer, E. McCarthy, L. New, S. Jarvis, and R. Morrissey. (2014). A risk function for behavioral disruption of Blainville's beaked whales (*Mesoplodon densirostris*) from mid-frequency active sonar. PLoS ONE, 9(1), e85064.
- Moretti, D. 2016. Marine Mammal Monitoring on Navy Ranges (M3R) Passive Acoustic Monitoring of Abundance on the Pacific Missile Range Facility (PMRF) and Southern California Offshore Range (SCORE). Naval Undersea Warfare Center (NUWC). Annual Report to the US Navy Pacific Fleet Integrated Comprehensive Monitoring Program. 22pp.
- Muto, M. M., V. T. Helker, B. J. Delean, N. C. Young, J. C. Freed, R. P. Angliss, N. A. Friday, P. L. Boveng, J. M. Breiwick, B. M. Brost, M. F. Cameron, P. J. Clapham, J. L. Crance, S. 30 P. Dahle, M. E. Dahlheim, B. S. Fadely, M. C. Ferguson, L. W. Fritz, K. T. Goetz, 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. 2022. Alaska marine mammal stock assessments, 2021. U.S. Dep. Commer., NOAA Tech. Memo. NMFS-AFSC-441, 295 p.
- Murray, C. C., L. C. Hannah, T. Doniol-Valcroze, B. M. Wright, E. H. Stredulinsky, J. C. Nelson, A. Locke, and R. C. Lacy. (2021). A cumulative effects model for population trajectories of resident killer whales in the Northeast Pacific. *Biological Conservation*, 257. DOI:10.1016/j.biocon.2021.109124
- National Marine Fisheries Service. 2024. Update to: Technical Guidance for Assessing the Effects of Anthropogenic Sound on Marine Mammal Hearing (Version 3.0): Underwater and InAir Criteria for Onset of Auditory Injury and Temporary Threshold Shifts. U.S. Dept. of Commer., NOAA. NOAA Technical Memorandum NMFS-OPR-71, 182 p.
- National Oceanic and Atmospheric Administration (NOAA). 2023. Hawaiian Monk Seal Population Rounds Out a Decade of Growth. Accessed September 11, 2023 at: <https://www.fisheries.noaa.gov/feature-story/hawaiian-monk-seal-population-rounds-out-decade-growth#:~:text=Thanks%20to%20these%20surveys%2C%20we,2022%2C%20the%20population%20crested%201%2C600>
- Navy. 2021. Biological Assessment for Reinitiation of Formal Consultation Under Section 7 of the Endangered Species Act for Ongoing Military Readiness Activities in the Hawaii-Southern California Training and Testing Study Area. Commander, United States Pacific Fleet and Commander, Naval Sea Systems Command, Department of the Navy
- Navy. 2022a. AWP Foreign Activity Matrix. Department of the Navy.
- Navy. 2022b. Navy Reply To NMFS 11 November 2022 Emailed Request for Information. U.S. Pacific Fleet, Environmental Readiness Division N465.
- NOAA (National Oceanographic and Atmospheric Administration) and U.S. Department of the Navy. 2001. Joint Interim Report: Bahamas Marine Mammal Stranding Event of 15-16 March 2000. U.S. Department of Commerce, Washington, D.C. 59 pp.
- 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, Florida. *Marine Mammal Science*, 17(4), 673-688.
- 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*, 271(B), 227-231.
- Oedekoven, C., and L. Thomas. 2022. Effectiveness of Navy lookout teams in detecting cetaceans. Provided to HDR Inc.

Taking Marine Mammals Incidental to the U.S. Navy Training and Testing Activities in the Hawaii-Southern California Training and Testing Study Area

- Palmer, K.J., Tabbutt, S., Gillespie, D., Turner, J., King, P., Tollit, D., Thompson, J., Wood, J. 2022. Evaluation of a coastal acoustic buoy for cetacean detections, bearing accuracy and exclusion zone monitoring. *Methods in Ecology and Evolution*. 13:2491–2502. DOI: 10.1111/2041-210X.13973
- Paitach, R.L., Amundin, M., Königson, S., Cremer, M.J., 2022. Assessing effectiveness and side effects of likely “seal safe” pinger sounds to ward off endangered franciscana dolphins (*Pontoporia blainvillei*). *Marine Mammal Science*. 38:1007–1021. DOI: 10.1111/mms.12907
- Parks, S. E., C. W. Clark, and P. L. Tyack. (2007). Short- and long-term changes in right whale calling behavior: The potential effects of noise on acoustic communication. *The Journal of Acoustical Society of America*, 122(6), 3725–3731.
- Parnell, K., Merckens, K., Huetz, C., Charrier, I., Robinson, S.J., Pacini, A., Bejder, L. 2024. Underwater soundscapes within critical habitats of the endangered Hawaiian monk seal: implications for conservation. *Endangered Species Research*. 54: 311-329. doi.10.3354/esr01336
- Pellegrini, A.Y., Romeu, B., Ingram, S.N., Daura-Jorge, F.G. 2021. Boat disturbance affects the acoustic behaviour of dolphins engaged in a rare foraging cooperation with fishers. *Animal Conservation*. 24(4). DOI: 10.1111/acv.12667
- Pirotta E, Hin V, Mangel M, New L, Costa DP, Roos AMd, Harwood J. 2020 Propensity for risk in reproductive strategy affects susceptibility to anthropogenic disturbance. *Am. Nat.* 196, E71–E87. (doi:10.1086/710150)
- Pirotta E, Mangel M., Costa, D.P., Mate, B., Goldbogen, J.A., Palacios, D.M., Huckstadt, L.A., McHuron, E.A., Schwarz, L., New, L. 2018. A dynamic state model of migratory behavior and physiology to assess the consequences of environmental variation and anthropogenic disturbance on marine vertebrates. *The American Naturalist* 191(2):E40-E56.
- Pirotta, E., C. G. Booth, D. E. Cade, J. Calambokidis, D. P. Costa, J. A. Fahlbusch, A. S. Friedlaender, J. A. Goldbogen, J. Harwood, E. L. Hazen, L. New, and B. L. Southall. (2021). Context-dependent variability in the predicted daily energetic costs of disturbance for blue whales. *Conservation Physiology*, 9(1). DOI:10.1093/conphys/coaa137
- Pirotta, E., et al. 2019. Anthropogenic disturbance in a changing environment: modelling lifetime reproductive success to predict the consequences of multiple stressors on a migratory population. *Oikos*, 128(9), pp.1340-1357.
- Pirotta, E., and coauthors. 2022. From individual responses to population effects: Integrating a decade of multidisciplinary research on blue whales and sonar. *Animal Conservation*.
- Ramesh, K., Berrow, S., Meade, R., O’Brien, J. 2021. Habitat Modelling on the Potential Impacts of Shipping Noise on Fin Whales (*Balaenoptera physalus*) in Offshore Irish Waters off the Porcupine Ridge. *Journal of Marine Science and Engineering*. 9(11), 1207. DOI: <https://doi.org/10.3390/jmse9111207>
- Ransome N, Loneragan NR, Medrano-González L, Félix F and Smith JN (2021) Vessel Strikes of Large Whales in the Eastern Tropical Pacific: A Case Study of Regional Underreporting. *Frontiers of Marine Science* 06 Oct 2021. <https://doi.org/10.3389/fmars.2021.675245>
- Redfern JV, Moore TJ, Becker EA, Calambokidis J, Hastings SP, Irvine LM, Mate BR and Palacios DM (2019) Evaluating stakeholder-derived strategies to reduce the risk of ships striking whales. *Diversity and Distributions* 25(10):1575-1585. <https://doi.org/10.1111/ddi.12958>
- Redfern JV, Becker EA and Moore J (2020) Effects of Variability in Ship Traffic and Whale Distributions on the Risk of Ships Striking Whales. *Frontiers in Marine Science* 6: 793. doi: 10.3389/fmars.2019.00793

Taking Marine Mammals Incidental to the U.S. Navy Training and Testing Activities in the Hawaii-Southern California Training and Testing Study Area

- Redfern, J.V., M.F. McKenna, T.J. Moore, J. Calambokidis, M.L. DeAngelis, E.A. Becker, J. Barlow, K.A. Forney, P.C. Fiedler, and S.J. Chivers. 2013. Assessing the risk of ships striking large whales in marine spatial planning. *Conservation Biology* 27:292-302.
- Redfern, J.V., Hodge, B.C., Pendleton, D.E., Knowlton, A.R., Adams, J., Patterson, E.M., Good, C.P., Roberts, J.J. (2024) Estimating reductions in the risk of vessels striking whales achieved by management strategies. *Biological Conservation*. 290: 110427.
<https://doi.org/10.1016/j.biocon.2023.110427>
- Reichmuth, C., M. M. Holt, J. Mulsow, J. M. Sills, and B. L. Southall. (2013). Comparative assessment of amphibious hearing in pinnipeds. *Journal of Comparative Physiology A: Neuroethology, Sensory Neural, and Behavioral Physiology*, 199(6), 491–507. DOI:10.1007/s00359-013-0813-y
- Reichmuth, C.J., Sills, J., Mulsow, J., Holt, M., and Southall, B.L. (2024). Temporary threshold shifts from mid-frequency airborne noise exposures in seals. *J. Acoust. Soc. Am.* (in prep).
- Rey-Baquero, M. P., L. V. Huertas-Amaya, K. D. Seger, N. Botero-Acosta, A. Luna-Acosta, C. E. Perazio, J. K. Boyle, S. Rosenthal, and A. C. Vallejo. (2021). Understanding effects of whale-watching vessel noise on humpback whale song in the North Pacific Coast of Colombia with propagation models of masking and acoustic data observations. *Frontiers in Marine Science*, 8. DOI:10.3389/fmars.2021.623724
- Richter, C.F., S.M. Dawson, and E. Slooten. 2003. Sperm whale watching off Kaikoura, New Zealand: Effects of current activities on surfacing and vocalisation patterns. *Science for Conservation* 219.
- Ritter, F. 2012. Collisions of sailing vessels with cetaceans worldwide: First insights into a seemingly growing problem. *Journal of Cetacean Research and Management* 12(1):119-127.
- Rockwood C and Jahncke J (2019). Management recommendations to reduce deadly whale strikes off California. Unpublished report for the National Oceanic and Atmospheric Administration, the United States Coast Guard, and the Maritime Industry. 16 p.
- Rockwood RC, Calambokidis J and Jahncke, J (2017) High mortality of blue, humpback and fin whales from modeling of vessel collisions on the U.S. West Coast suggests population impacts and insufficient protection. *PLOS ONE* 12(8): e0183052
<https://doi.org/10.1371/journal.pone.0183052>
- Rockwood RC, Elliott ML, Saenz B, Nur N and Jahncke J (2020a) Modeling predator and prey hotspots: Management implications of baleen whale co-occurrence with krill in Central California. *PLoS ONE* 15(7): e0235603. <https://doi.org/10.1371/journal.pone.0235603>
- Rockwood RC, Adams J, Silber G and Jahncke J (2020b) Estimating effectiveness of speed reduction measures for decreasing whale-strike mortality in a high-risk region. *Endangered Species Research* 43:145-166. <https://doi.org/10.3354/esr01056>
- Rockwood RC, Adams JD, Hastings S, Morten J and Jahncke J (2021) Modeling whale deaths from vessel strikes to reduce the risk of fatality to endangered whales. *Frontiers in Marine Science*, 8(919), 649890. doi: <https://doi.org/10.3389/fmars.2021.649890>
- Ruscher, B., J. M. Sills, B. P. Richter, and C. Reichmuth. (2021). In-air hearing in Hawaiian monk seals: Implications for understanding the auditory biology of Monachinae seals. *Journal of Comparative Physiology Neuroethology, Sensory, Neural, and Behavioral Physiology*, 207(4), 561–573. DOI:10.1007/s00359-021-01498-y
- Santos-Carvalho, M., and coauthors. 2021. Impacts of whale-watching on the short-term behavior of fin whales (*Balaenoptera physalus*) in a marine protected area in the southeastern Pacific. *Frontiers in Marine Science* 8.

Taking Marine Mammals Incidental to the U.S. Navy Training and Testing Activities in the Hawaii-Southern California Training and Testing Study Area

- Scheidat, M., C. Castro, J. Gonzalez, and R. Williams. (2004). Behavioural responses of humpback whales (*Megaptera novaeangliae*) to whale watching boats near Isla de la Plata, Machalilla National Park, Ecuador. *Journal of Cetacean Research and Management*, 6(1), 63-68.
- Schorr, G.S., E.A. Falcone, B.K. Rone, and E.L. Keene. 2017. Distribution and demographics of Cuvier's beaked whales in the Southern California Bight. Annual Report to the US Navy Pacific Fleet Integrated Comprehensive Monitoring Program, Award No. N66604-14-C-0145. 15ppg.
- Sèbe M, Christos AK and Pendleton L (2019) A decision-making framework to reduce the risk of collisions between ships and whales. *Marine Policy* 109:103697.
<https://doi.org/10.1016/j.marpol.2019.103697>
- Siegal, E., Hooker, S.K., Isojunno, S., Miller, P.J.O. 2022. Beaked whales and state-dependent decision-making: how does body condition affect the trade-off between foraging and predator avoidance? *Proc. R. Soc. B*. 289: 20212539. <https://doi.org/10.1098/rspb.2021.2539>
- Silber, G. K., J. Slutsky, and S. Bettridge. (2010). Hydrodynamics of a ship/whale collision. *Journal of Experimental Marine Biology and Ecology*, 391, 10–19.
- Silber GK, Weller DW, Reeves RR, Adams JD and Moore TJ (2021). Co-occurrence of gray whales and vessel traffic in the North Pacific Ocean. *Endangered Species Research* 44:177-201.
doi.org/10.3354/esr01093
- Sills, J. M., K. Parnell, B. Ruscher, C. Lew, T. L. Kendall, and C. Reichmuth. (2021). Underwater hearing and communication in the endangered Hawaiian monk seal, *Neomonachus schauinslandi*. *Endangered Species Research*, 44, 61–78.
- Sills, J. M., B. Ruscher, R. Nichols, B. L. Southall, and C. Reichmuth. (2020). Evaluating temporary threshold shift onset levels for impulsive noise in seals. *The Journal of the Acoustical Society of America*, 148(5), 2973–2986. DOI:10.1121/10.0002649
- Simmonds, M.P. 2005. Whale watching and monitoring: some considerations. Unpublished paper submitted to the Scientific Committee of the International Whaling Commission SC/57/WW5, Cambridge, United Kingdom.
- Simonis, A. E., R. L. Brownell, B. J. Thayre, J. S. Trickey, E. M. Oleson, R. Huntington, and S. Baumann-Pickering. (2020). Co-occurrence of beaked whale strandings and naval sonar in the Mariana Islands, Western Pacific. *Proceedings of the Royal Society*, 287.
- Širović, A., S. Baumann-Pickering, J.A. Hildebrand, A.J. Debich, S.T. Herbert, A. Meyer-Löbbecke, A. Rice, B. Thayre, J.S. Trickey, S.M. Wiggins, and M.A. Roch. 2016. Passive Acoustic Monitoring for Marine Mammals in the SOCAL Range Complex July 2014 – May 2015. MPL TECHNICAL MEMORANDUM #607, Annual Report to the US Navy Pacific Fleet Integrated Comprehensive Monitoring Program. 42pp.
- Smultea, M.A., and T.A. Jefferson. 2014. Changes in relative occurrence of cetaceans in the Southern California Bight: A comparison of recent aerial survey results with historical data sources. *Aquatic Mammals* 40(1).
- Smultea MA, Robertson FC, Fertl D (2022). Blue Whale (*Balaenoptera musculus*) Mother–Calf Pair Behavioral Response to Vessel in the Southern California Bight. *Aquatic Mammals* 48(6):690-692. DOI 10.1578/AM.48.6.2022.690
- Southall, B. L., A. N. Allen, J. Calambokidis, C. Casey, S. L. DeRuiter, S. Fregosi, A. S. Friedlaender, J. A. Goldbogen, C. M. Harris, E. L. Hazen, V. Popov, and A. K. Stimpert. (2023). Behavioural responses of fin whales to military mid-frequency active sonar. *Royal Society Open Science* 10 (12): 231775. DOI: <https://doi.org/10.1098/rsos.231775>
- Southall, B. L., J. J. Finneran, C. Reichmuth, P. E. Nachtigall, D. R. Ketten, A. E. Bowles, W. T. Ellison, D. P. Nowacek, and P. L. Tyack. (2019). Marine mammal noise exposure criteria:

Taking Marine Mammals Incidental to the U.S. Navy Training and Testing Activities in the Hawaii-Southern California Training and Testing Study Area

- Updated scientific recommendations for residual hearing effects. *Aquatic Mammals*, 45(2), 125–232.
- Southall, B. et al. 2019. Behavioral responses of individual blue whales (*Balaenoptera musculus*) to mid-frequency military sonar. *Journal of Experimental Biology* 222, jeb190637. doi:10.1242/jeb.190637.
- Southall, B. L., D.P. Nowacek, A.E. Bowles, V. Senigaglia, L. Bejder, P.L. Tayak. (2021). Marine mammal noise exposure criteria: Assessing the severity of marine mammal behavioral responses to human noise. *Aquatic Mammals* 47(5): 421–464.
- Stanistreet, J. E., et al. (2022). Changes in the acoustic activity of beaked whales and sperm whales recorded during a naval training exercise off eastern Canada. *Scientific Reports* 12(1).
- Starcovic, S., and J. Mintz. 2021. Characterization of Vessel Traffic within Navy Training and Testing Areas. Dept. of The Navy, Commander, Pacific Fleet, Environmental Readiness Division (COMPACFLT N465).
- Sweeney, S.O., Terhune, J.M., Frouin-Mouy H., Rouget, P.A. 2022. Assessing potential perception of shipping noise by marine mammals in an arctic inlet. *J. Acoust. Soc. Am.* 151, 2310–2325. <https://doi.org/10.1121/10.0009956>
- Szesciorka AR, Allen AN, Calambokidis, J, Fahlbusch J, McKenna, MF, Southall B (2019) A Case Study of a Near Vessel Strike of a Blue Whale: Perceptual Cues and Fine- Scale Aspects of Behavioral Avoidance. *Front. Mar. Sci.*, vol. 6, art. 761, <https://doi.org/10.3389/fmars.2019.00761>
- Tougaard, J., K. Beedholm, and P. T. Madsen. 2022. Thresholds for noise induced hearing loss in harbor porpoises and phocid seals. *The Journal of the Acoustical Society of America* 151(6):4252-4263.
- Todd, N.R., Jessopp, M., Rogan, E., & Kavanagh, A.S. 2022. Extracting foraging behavior from passive acoustic monitoring data to better understand harbor porpoise (*Phocoena phocoena*) foraging habitat use. *Marine Mammal Science*. 38(4), 1623-1642. <https://doi.org/10.1111/mms.12951>
- Van der Hoop, J. M., A. S. M. Vanderlaan, and C. T. Taggart. (2012). Absolute probability estimates of lethal vessel strikes to North Atlantic right whales in Roseway Basin, Scotian Shelf. *Ecological Applications*, 22(7), 2021–2033.
- Van der Hoop, J. M., M. J. Moore, S. G. Barco, T. V. Cole, P. Y. Daoust, A. G. Henry, D. F. McAlpine, W. A. McLellan, T. Wimmer, and A. R. Solow. (2013). Assessment of management to mitigate anthropogenic effects on large whales. *Conservation biology: the journal of the Society for Conservation Biology*, 27(1), 121–133.
- Van der Hoop, J. M., Vanderlaan, A.S.M., Cole, T.V.N., Henry, A.G., Hall, L., Mase-Guthrie, B., Wimmer, T., Moore, M.J. (2015). Vessel Strikes to Large Whales Before and After the 2008 Ship Strike Rule. *Conservation Letters*. 8(1), 24-32. doi: 10.1111/conl.12105
- Vanderlaan, M. S. A., and T. C. Taggart. (2007). Vessel collisions with whales: the probability of lethal injury based on vessel speed. *Marine Mammal Science*, 23(1), 144–156.
- Vanderlaan, A.S.M., C.T. Taggart, A.R. Serdynska, R.D. Kenney, and M.W. Brown. (2008). Reducing the risk of lethal encounters: Vessels and right whales in the Bay of Fundy and on the Scotian Shelf. *Endangered Species Research*, 4(3), 283-283.
- Verfuss, U.K., Gillespie, D., Gordon, J., Marques, T.A., Miller, B., Plunkett, R., Theriault, J., Tollit, D.J., Zitterbart, D.P., Hubert, P., Thomas, L. 2018. Comparing methods suitable for monitoring marine mammals in low visibility conditions during seismic surveys. *Marine Pollution Bulletin*. 1–18. <https://doi.org/10.1016/j.marpolbul.2017.10.034>
- von Benda-Beckmann, A. M., S. Isojunno, M. Zandvliet, A. Ainslie, P. J. Wensveen, P. L. Tyack, P. H. Kvadsheim, P. A. Lam, and P. J. O. Miller. (2021). Modeling potential masking of echolocating

Taking Marine Mammals Incidental to the U.S. Navy Training and Testing Activities in the Hawaii-Southern California Training and Testing Study Area

- sperm whales exposed to continuous 1–2 kHz naval sonar. *The Journal of the Acoustical Society of America*, 149, 2908–2925. DOI:10.1121/10.0004769
- von Benda-Beckmann, A.M., Ketten, D.R., Lam, F.P.A, de Jong, C.A.F., Müller, A.J., Kastelein, R.A. 2022. Evaluation of kurtosis-corrected sound exposure level as a metric for predicting onset of hearing threshold shifts in harbor porpoises (*Phocoena phocoena*). *J. Acoust. Soc. Am.* 152, 295–301. <https://doi.org/10.1121/10.0012364>
- Varghese, H. K., J. Miksis-Olds, N. DiMarzio, K. Lowel, E. Linder, L. Mayer, and D. Moretti. (2020). The effect of two 12 kHz multibeam mapping surveys on the foraging behavior of Cuvier's beaked whales off of Southern California. *The Journal of the Acoustical Society of America*, 147, 3849–3858.
- Wade, P. R., 2017. Estimates of abundance and migratory destination for North Pacific humpback whales in both summer feeding areas and winter mating and calving areas – revision of estimates in SC/66b/IA21, International Whaling Commission Paper, SC/A17/NP10.
- Wade, P.R. 1998. Calculating limits to the allowable human-caused mortality of cetaceans and pinnipeds. *Marine Mammal Science* 14(1):1-37.
- Wade, P. R. 2021. Estimates of abundance and migratory destination for North Pacific humpback whales in both summer feeding areas and winter mating and calving areas. International Whaling Commission. SC/68c/IA/03. 32 pp. <https://archive.iwc.int/>.
- Watkins, W. A. (1986). Whale reactions to human activities in Cape Cod waters. *Marine Mammal Science*, 2(4), 251–262.
- Wang, Z., Supin, A.Y., Akamatsu, T., Duan, P., Yang, Y., Wang, K., Ding Wang, D. 2021. Auditory evoked potential in stranded melon-headed whales (*Peponocephala electra*): With severe hearing loss and possibly caused by anthropogenic noise pollution. *Ecotoxicology and Environmental Safety*. Volume 228 (25). <https://doi.org/10.1016/j.ecoenv.2021.113047>.
- West et al 2013. A Longman's beaked whale (*Indopacetus pacificus*) strands in Maui, Hawaii, with first case of morbillivirus in the central Pacific. *Marine Mammal Science* 29(4): 767–776. DOI: 10.1111/j.1748-7692.2012.00616.x
- Wiley, D. N., C. A. Mayo, E. M. Maloney, and M. J. Moore. (2016). Vessel strike mitigation lessons from direct observations involving two collisions between noncommercial vessels and North Atlantic right whales (*Eubalaena glacialis*). 32(4), 1501–1509.
- Williams, R.M., A.W. Trites, and D.E. Bain. 2002. Behavioral responses of killer whales (*Orcinus orca*) to whale-watching boats: Opportunistic observations and experimental approaches. *Journal of Zoology*. 256(2):255-270.
- Williams, T.M., Blackwell, S.B., Tervo, O., Garde, E., Sinding, M-H.S., Richter, B., Heide-Jørgensen, M.P. 2022. Physiological responses of narwhals to anthropogenic noise: A case study with seismic airguns and vessel traffic in the Arctic. *Functional Ecology*. 2251–2266. DOI: 10.1111/1365-2435.14119
- Williams, S.H., Gende, S.M., Lukacs, P.M., Webb, K. 2016. Factors affecting whale detection from large ships in Alaska with implications for whale avoidance. *Endangered Species Research*. 30: 209–223. doi: 10.3354/esr00736
- Wursig, 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 Mammals*, 24.1:41- 50.
- Yin Z-C, Hui L, Zhang Z-J, Jin Z-H-N, Li S-J, Xiao J-Q (2019). Probabilistic model of random encounter in obstacle space. *International Journal of Geo-Information*. 8(1):32-50.
- Yang, W.-C., C.-F. Chen, Y.-C. Chuah, C.-R. Zhuang, I.-H. Chen, T. A. Mooney, J. Stott, M. Blanchard, I.-F. Jen, and L.-S. Chou. (2021). Anthropogenic sound exposure-induced stress in

Taking Marine Mammals Incidental to the U.S. Navy Training and Testing Activities in the Hawaii-Southern California Training and Testing Study Area

captive dolphins and implications for cetacean health. *Frontiers in Marine Science*, 8.

DOI:10.3389/fmars.2021.606736

Young, N. C., Brower, A. A., Muto, M. M., Freed, J. C., Angliss, R. P., Friday, N. A., Boveng, P. L., Brost, B. M., Cameron, M. F., Crance, J. L., Dahle, S. P., Fadely, B. S., Ferguson, M. C., Goetz, K. T., London, J. M., Oleson, E. M., Ream, R. R., Richmond, E. L., Sheldon, K. E. W., Sweeney, K. L., Towell, R. G., Wade, P. R., Waite, J. M., and Zerbini, A. N. 2023. Alaska marine mammal stock assessments, 2022. U.S. Department of Commerce, NOAA Technical Memorandum NMFS-474, 316 p.

Zickel MJ, and coauthors. 2021. Synopsis of Marine Environmental Conditions off Southern California from May - July, 2009 - 2021 and Potential Correlation with Occurrence and Distribution of Large Whales. Prepared for: U.S. Navy, U.S. Pacific Fleet, Pearl Harbor, HI, Prepared by: ManTech SRS, Solana Beach, CA.

Zitterbart, D.P., Smith, H.R., Flau, M., Richter, S., Burkhardt, E., Beland, J., Bennett, L., Cammareri, A., Davis, A., Holst, M. and Lanfredi, C. 2020. Scaling the laws of thermal imaging-based whale detection. *Journal of Atmospheric and Oceanic Technology* 37(5):.807-24.