

COMMITTEE ON NATURAL RESOURCES
118th Congress Disclosure Form
As required by and provided for in House Rule XI, clause 2(g)(5)

Sub on WWF Leg Hrg on 06.27.24

For Individuals:

Name: Jessica V. Redfern
Address: 1 Central Wharf, Boston, MA 02110
Email Address: [REDACTED]
Phone Number: [REDACTED]

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For Witnesses Representing Organizations:

Name: New England Aquarium
Name of Organization(s) You are Representing at the Hearing: New England Aquarium
Business Address: 1 Central Wharf, Boston, MA 02110
Business Email Address: NA
Business Phone Number: 617-973-5200

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For Nongovernment Witnesses ONLY:

1. Please attach/include current curriculum vitae or resume.

Included at the end of this form

2. Please list any federal grants or contracts (including subgrants or subcontracts) related to the subject matter of the hearing that were received in the current year and previous two calendar years by you or the organization(s) you represent at this hearing, including the source and amount of each grant or contract.

- 1) Department of Defense, Strategic Environmental Research and Development Program, grant to the University of St. Andrew's. We received a sub-award for \$195,195. Project: understand the cumulative effects of multiple stressors on marine mammals, particularly right whales
- 2) Marine Mammal Commission, grant to New England Aquarium for \$34,963. Project: evaluating the efficacy of using broad-scale ship speed restrictions in the U.S. East Coast Exclusive Economic Zone for reducing large whale mortalities

- 3) National Oceanic and Atmospheric Administration, grant to New England Aquarium for \$84,533. Project: Understanding comprehensive physiological responses of North Atlantic right whales living in a rapidly changing ocean.
- 4) Marine Mammal Commission, grant to New England Aquarium for \$59,763. Project: Baleen biochemistry to understand North Atlantic right whale health in the context of climate change.
- 5) U.S. National Science Foundation, grant to University of South Carolina. We received a sub-award grant for \$66,304. Project: Climate and adaptation deficits: Mechanisms of response to climate change by the endangered North Atlantic right whale.
- 6) National Oceanic and Atmospheric Administration, grant to New England Aquarium for \$754,233. Project: protected species aerial surveys in the Gulf of Maine; work includes flying line transect aerial surveys in the Gulf of Maine and photographing right whales for individual identification.
- 7) National Oceanic and Atmospheric Administration, grant to New England Aquarium for \$366,003. Project: Protected species aerial surveys in the Massachusetts and Rhode Island Wind Energy Areas; work includes flying line transect aerial surveys in the Southern New England wind energy areas and surrounding waters, and photographing right whales for individual identification.
- 8) National Ocean and Atmospheric Administration, grant to Maine Department of Marine Resources. We received a sub-award grant for \$124,353. Project: North Atlantic right and fin whales off the coast of Maine, filling a critical data-gap to support management of endangered whales; work includes flying line transect aerial surveys in coastal Maine waters, photographing right whales for individual identification, and species distribution modeling.
- 9) National Oceanic and Atmospheric Administration, grant to New England Aquarium for \$1,921,014. Project: curate and maintain the NARW photo ID catalog; work includes analyzing photos of right whales and identifying individual animals and documenting evidence of vessel strike, entanglements, and general health status as determined both by visual assessment and lab tests of samples collected

3. Please list any contracts or payments originating with a foreign government related to the subject matter of the hearing that were received in the current year and previous two calendar years by you or the organization(s) you represent at this hearing, including the amount and country of origin of each contract or payment.

None

4. Please disclose whether you are a fiduciary (including, but not limited to, a director, officer, advisor, or resident agent) of any organization or entity that has an interest in the subject matter of the hearing.

The New England Aquarium Whale Watch is operated by Boston Harbor City Cruises (BHCC), a part of City Experiences, which represents Hornblower Group's expansive portfolio of water- and land-based experience companies and includes two sub-brands: City Cruises and City Ferry. This spring, the Aquarium and BHCC partnered to delay the start of whale watch season to protect North Atlantic right whales. The New England Aquarium Whale Watch launched on May 15, 2024 after protections for right whales were lifted. In addition to the whale watch, BHCC operates dining, sightseeing and private events in Boston, as well across 22 destinations in the U.S., Canada, and the UK. BHCC also operates the Provincetown Fast Ferry, the Salem Ferry, and the Boston Harbor Islands Ferry.

Address: Boston Harbor City Cruises, 1 Long Wharf, Boston, MA 02210

5. Please list any current or pending litigation against the Federal government to which you or your organization is a party. Please disclose as applicable case name, docket number, the court, and subject matter of the litigation.

None

Jessica Veneris Redfern, Ph.D.

Curriculum Vitae

Anderson Cabot Center for Ocean Life, New England Aquarium
617-973-0255; jredfern@neaq.org

SELECTED PROFESSIONAL EXPERIENCE

- 2023-present Associate Vice President, Ocean Conservation Science, Anderson Cabot Center for Ocean Life, New England Aquarium, Boston, MA
- 2019-2023 Senior Scientist and Chair of the Spatial Ecology, Mapping, and Assessment Program (EcoMap), Anderson Cabot Center for Ocean Life, New England Aquarium, Boston, MA
- 2013-2019 Program Leader, Marine Mammal Spatial Habitat and Risk Program, Marine Mammal and Turtle Division, Southwest Fisheries Science Center, NOAA Fisheries, La Jolla, CA
- 2010-2013 Program Leader, Ecosystem Studies Program, Protected Resources Division, Southwest Fisheries Science Center, NOAA Fisheries, La Jolla, CA
- 2004-2010 Marine Ecologist, Protected Resources Division, Southwest Fisheries Science Center, NOAA Fisheries, La Jolla, CA
- 2003-2004 Postdoctoral Associate, National Research Council, Protected Resources Division, Southwest Fisheries Science Center, NOAA Fisheries, La Jolla, CA

EDUCATION

- Ph.D. University of California, Berkeley, May 2002
Department of Environmental Science, Policy, and Management
- Best Presentation, Research in GIS at Berkeley, Conference at the University of California, Berkeley
 - National Science Foundation Dissertation Enhancement Grant
 - Departmental Fellowships
- B.A. The Colorado College, May 1995
Mathematics
- Graduated Magna Cum Laude
 - Graduated with Distinction in Mathematics
 - Phi Beta Kappa Honor Society

SELECTED PROFESSIONAL SERVICE

- 2023 Associate Editor for *Frontiers in Marine Science: Marine Evolutionary Biology, Biogeography and Species Diversity; Marine Conservation and Sustainability; Marine Megafauna*
- 2022 Elected to the Board of the North Atlantic Right Whale Consortium
- 2022 Testified before the United States House of Representatives, Committee on Natural Resources, Subcommittee on Water, Oceans, and Wildlife on H.R. 5957 and H.R. 6785
- 2021 Member of the Regional Wildlife Science Entity's Marine Mammal Working Group
- 2021 Invited expert for NOAA Fisheries Gulf of Mexico Bryde's Whale Recovery Planning Workshop
- 2020 Member of the Marine Mammals Workgroup for the New York State Environmental Technical Working Group's State of the Science Workshop on Wildlife and Offshore Wind Energy 2020: Cumulative Impacts
- 2019 Member of ICES Working Group on Shipping Impacts in the Marine Environment
- 2019 Topic editor for a special issue of *Frontiers in Marine Science* that focuses on the impacts of shipping on marine fauna
- 2018 Member of NOAA Fisheries' humpback whale critical habitat team
- 2018 Member of the steering committee for NOAA Fisheries' second Protected Species Assessment Workshop
- 2017 Invited participant at the IWC Scientific Committee meeting. My paper on predicting cetacean distributions in data-poor marine ecosystems was presented and discussed in three IWC working groups
- 2016 Co-convener of a workshop to share information regarding whale entanglements occurring along the US West Coast and to brainstorm future collaborations to address this threat
- 2015 Co-convener of a workshop to develop best practices for collecting data to estimate marine mammal abundance on the Pacific Coast of South America, Salinas, Ecuador
- 2015 Co-convener of a workshop on ensemble averaging of cetacean distribution models, IWC Scientific Committee meeting, San Diego, CA

PEER-REVIEWED PUBLICATIONS

- 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.
- Roberts, J.J., Yack, T.M., Fujioka, E., Halpin, P.N., Baumgartner, M.F., Boisseau, O., Chavez-Rosales, S., Cole, T.V.N., Cotter, M.P., Davis, G.E., DiGiovanni, R.A., Jr., Ganley, L.C., Garrison, L.P., Good, C.P., Gowan, T.A., Jackson, K.A., Kenney, R.D., Khan, C.B., Knowlton, A.R., Kraus, S.D., Lockhart, G.G., Lomac-MacNair, K.S., Mayo, C.A., McKenna, B.E., McLellan, W.A., Nowacek, D.P., O'Brien, O., Pabst, D.A., Palka, D.L., Patterson, E.M., Pendleton, D.E., Quintana-Rizzo, E., Record, N.R., Redfern, J.V., Rickard, M.E., White, M., Whitt, A.D., Zoidis, A.M., 2024. North Atlantic right whale density surface model for the US Atlantic evaluated with passive acoustic monitoring. *Marine Ecology Progress Series* 732, 167-192.
- O'Brien, O., D. E. Pendleton, L. C. Ganley, K. R. McKenna, R. D. Kenney, E. Quintana-Rizzo, C. A. Mayo, S. D. Kraus, and J. V. Redfern. 2022. Repatriation of a historical North Atlantic right whale habitat during an era of rapid climate change. *Nature Scientific Reports*.
- Ganley, L. C., J. Byrnes, D. E. Pendleton, C. A. Mayo, K. D. Friedland, J. V. Redfern, J. T. Turner, and S. Brault. 2022. Effects of changing temperature phenology on the abundance of a critically endangered baleen whale. *Global Ecology and Conservation* 38:e02193.
- Hodge, B. C., D. E. Pendleton, L. C. Ganley, O. O'Brien, S. D. Kraus, E. Quintana-Rizzo, and J. V. Redfern. 2022. Identifying predictors of species diversity to guide designation of marine protected areas. *Conservation Science and Practice* n/a:e12665.
- Redfern, J. V., K. A. Kryc, L. Weiss, B. C. Hodge, O. O'Brien, S. D. Kraus, E. Quintana-Rizzo, and P. J. Auster. 2021. Opening a Marine Monument to Commercial Fishing Compromises Species Protections. *Frontiers in Marine Science* 8.
- Samhuri, J. F., B. E. Feist, M. C. Fisher, O. Liu, S. M. Woodman, B. Abrahms, K. A. Forney, E. L. Hazen, D. Lawson, J. V. Redfern, and L. E. Saez. 2021. Marine heatwave challenges solutions to human-wildlife conflict. *Proceedings of the Royal Society B: Biological Sciences* 288:20211607.
- Redfern, J.V., Becker, E.A., Moore, T.J. 2020. Effects of variability in ship traffic and whale distributions on the risk of ships striking whales. *Frontiers in Marine Science* 6:1-14.
- Pendleton, D. E., E. E. Holmes, J. V. Redfern, and J. Zhang. 2020. Using modelled prey to predict the distribution of a highly mobile marine mammal. *Diversity and Distributions* 26:1612-1626.
- Smith, J.N., Kelly, N., Childerhouse, S., Redfern, J.V., Moore, T.J., Peel, D. 2020. Quantifying ship strike risk to breeding whales in a multiple-use marine park: the Great Barrier Reef. *Frontiers in Marine Science* 7:1-15.
- Erbe, C., J.N. Smith, J.V. Redfern, and D. Peel. 2020. Editorial: Impacts of shipping on marine fauna. *Frontiers in Marine Science* 7: 1-5.
- Becker, E. A., Carretta, J. V., Forney, K. A., Barlow, J., Brodie, S., Hoopes, R., Jacox, M. G., Maxwell, S. M., Redfern, J. V., Sisson, N. B., Welch, H., Hazen, E. L. 2020. Performance evaluation of cetacean species distribution models developed using generalized additive models and boosted regression trees. *Ecology and Evolution* 00:1– 21.
- Hassellöv, I.M., Koski, M., Broeg, K., Marin-Enriquez, O., Tronczynski, J., Dulière, V., Murray, C., Bailey, S., Redfern, J.V., de Jong, K., Ponzevera, E., Belzunce-Segarra, M.J., Mason, C., Iacarella, J.C., Lyons, B., Fernandes, J.A., Parmentier, K. 2020. ICES Viewpoint background document: Impact from exhaust gas cleaning systems (scrubbers) on the marine environment (Ad hoc). *ICES Scientific Reports*. 2:86. 40 pp.
- Redfern, J.V., Moore, T.J., Becker, E.A., Calambokidis, J., Hastings, S.P., Irvine, L.M., Mate, B.R., Palacios, D.M. 2019. Evaluating stakeholder-derived strategies to reduce the risk of ships striking whales. *Diversity and Distributions* 25: 1575-1585.

- Becker, E.A., Forney, K.A., Redfern, J.V., Barlow, J., Jacox, M.G., Roberts, J.J., Palacios, D.M., 2019. Predicting cetacean abundance and distribution in a changing climate. *Diversity and Distributions* 25:626-643.
- Woodman, S.M., K.A. Forney, E.A. Becker, M.L. DeAngelis, E.L. Hazen, D.M. Palacios, and J.V. Redfern. 2019. esdm: A tool for creating and exploring ensembles of predictions from species distribution and abundance models. *Methods in Ecology and Evolution* 10:1923-1933.
- Fiedler, P.C., Redfern, J.V., Forney, K.A., Palacios, D.M., Sheredy, C., Rasmussen, K., García-Godos, I., Santillán, L., Tetley, M.J., Félix, F., Ballance, L.T., 2018. Prediction of large whale distributions: a comparison of presence-absence and presence-only modeling techniques. *Frontiers in Marine Science* 5: 1-15.
- Fleming, A.H., Yack, T., Redfern, J.V., Becker, E.A., Moore, T.J., Barlow, J., 2018. Combining acoustic and visual detections in habitat models of Dall's porpoise. *Ecological Modelling* 384: 198-208.
- Moore, T.J., Redfern, J.V., Carver, M., Hastings, S., Adams, J.D., Silber, G.K., 2018. Exploring ship traffic variability off California. *Ocean & Coastal Management* 163: 515-527.
- Redfern, J.V., Moore, T.J., Fiedler, P.C., de Vos, A., Brownell, R.L., Forney, K.A., Becker, E.A. & Ballance, L.T. 2017 Predicting cetacean distributions in data-poor marine ecosystems. *Diversity and Distributions* 23: 394-408.
- Redfern, J.V., Hatch, L.T., Caldow, C., DeAngelis, M.L., Gedamke, J., Hastings, S., Henderson, L., McKenna, M.F., Moore, T.J. & Porter, M.B. 2017. Assessing the risk of chronic shipping noise to baleen whales off Southern California, USA. *Endangered Species Research* 32: 153-167.
- Van Noord, J. E., R. J. Olson, J. V. Redfern, L. M. Duffy, and R. S. Kaufmann. 2016. Oceanographic influences on the diet of 3 surface-migrating myctophids in the eastern tropical Pacific Ocean. *Fishery Bulletin* 114:274-287.
- 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* 8:149.
- Edwards, E. F., C. Hall, T. J. Moore, C. Sheredy, and J. V. Redfern. 2015. Global distribution of fin whales *Balaenoptera physalus* in the post-whaling era (1980–2012). *Mammal Review* 45:197-214.
- Jensen, C. M., E. Hines, B. A. Holzman, T. J. Moore, J. Jahncke, and J. V. Redfern. 2015. Spatial and temporal variability in shipping traffic off San Francisco, California. *Coastal Management* 43:575-588.
- 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.
- Fiedler, P. C., J. V. Redfern, J. Van Noord, C. Hall, R. L. Pitman, and L. T. Ballance. 2013. Effects of a tropical cyclone on a pelagic ecosystem from the physical environment to top predators. *Marine Ecology Progress Series* 484:1-16.
- Staaf, D. J., J. V. Redfern, W. F. Gilly, W. Watson, and L. T. Ballance. 2013. Distribution of ommastrephid paralarvae in the eastern tropical Pacific. *Fishery Bulletin* 111:78–89.
- Van Noord, J. E., R. J. Olson, J. V. Redfern, and R. S. Kaufmann. 2013. Diet and prey selectivity in three surface-migrating myctophids in the eastern tropical Pacific. *Ichthyological Research* 60:287-290.
- Becker, E. A., D. G. Foley, K. A. Forney, J. Barlow, J. V. Redfern, and C. L. Gentemann. 2012. Forecasting cetacean abundance patterns to enhance management decisions. *Endangered Species Research* 16:97-112.
- Forney, K. A., M. C. Ferguson, E. A. Becker, P. C. Fiedler, J. V. Redfern, J. Barlow, I. L. Vilchis, and L. T. Ballance. 2012. Habitat-based spatial models of cetacean density in the eastern Pacific Ocean. *Endangered Species Research* 16:113-133.
- Noren, S. R., J. V. Redfern, and E. F. Edwards. 2011. Pregnancy is a drag: hydrodynamics, kinematics and performance in pre- and post-parturition bottlenose dolphins (*Tursiops truncatus*). *The Journal of Experimental Biology* 214:4151-4159.

- Archer F. I., J. V. Redfern, T. Gerrodette, S. J. Chivers, and W.F. Perrin. 2010. Estimation of relative exposure of dolphins to fishery activity. *Marine Ecology Progress Series* 410: 245-255.
- Becker E. A., K. A. Forney, M. C. Ferguson, D. G. Foley, R. C. Smith, J. Barlow, and J. V. Redfern. 2010. Comparing California Current cetacean-habitat models developed using *in situ* and remotely sensed sea surface temperature data. *Marine Ecology Progress Series* 413: 163-183.
- Redfern, J. V., J. Barlow, L. T. Ballance, T. Gerrodette, and E.A. Becker. 2008. Absence of scale dependence in dolphin-habitat models for the eastern tropical Pacific Ocean. *Marine Ecology Progress Series* 163: 1-14.
- Noren, S. R., G. Biedenbach, J. V. Redfern, and E. F. Edwards. 2008. Hitching a ride: the formation locomotion strategy of dolphin calves. *Functional Ecology* 22: 278-288.
- Redfern, J. V., M. C. Ferguson, E. A. Becker, K. D. Hyrenbach, C. Good, J. Barlow, K. Kaschner, M. F. Baumgartner, K. A. Forney, L. T. Ballance, P. Fauchald, P. Halpin, T. Hamazaki, A.J. Pershing, S.S. Qian, A. Read, S.B. Reilly, L. Torres, and F. Werner. 2006. Techniques for cetacean-habitat modeling. *Marine Ecology Progress Series* 310:271-295.
- Redfern, J. V., S. J. Ryan, and W. M. Getz. 2006. Defining herbivore assemblages in the Kruger National Park: A correlative coherence approach. *Oecologia* 146 (4): 632-640.
- Redfern, J. V. and W. M. Getz. 2005. Surface water availability and the management of herbivore distributions in an African savanna ecosystem. *Journal of Arid Environments* 63: 406-424.
- Redfern, J. V., C. C. Grant, H. C. Biggs, and W. M. Getz. 2003. Surface water constraints on herbivore foraging in the Kruger National Park, South Africa. *Ecology* 84(8): 2092-2107.
- Redfern, J. V., J. M. Kruger, P. C. Viljoen, and W. M. Getz. 2002. Biases in estimating population size from an aerial census: A case study in the Kruger National Park, South Africa. *South African Journal of Science* 98(9/10): 455-461.

OTHER PUBLICATIONS

- O'Brien, O., K. McKenna, D. Pendleton, L. Ganley, and J. V. Redfern. 2022. Megafauna Aerial Surveys in the Wind Energy Areas of Massachusetts and Rhode Island with Emphasis on Large Whales: Final Report Campaign 6B, 2020-2021. Final report to the Massachusetts Clean Energy Center.
- O'Brien, O., K. McKenna, B. Hodge, D. Pendleton, M. Baumgartner, and J. Redfern. 2021. Megafauna Aerial Surveys in the Wind Energy Areas of Massachusetts and Rhode Island with Emphasis on Large Whales: Summary Report Campaign 5, 2018-2019. BOEM 2021-033.
- Pendleton, D. E., O. O'Brien, L. Ganley, K. McKenna, and J. V. Redfern. 2020. Large whale habitat use in Southern New England wind energy areas: demographic analysis, abundance estimation, and species distribution modeling. Final report prepared for The Massachusetts Clean Energy Center.
- Fiedler, P. C., J. V. Redfern, and L. T. Ballance. 2017. Oceanography and cetaceans of the Costa Rica Dome Region. NOAA Technical Memorandum NMFS-SWFSC-590. U.S. Department of Commerce, National Marine Fisheries Service, Southwest Fisheries Science Center, La Jolla, CA.
- Henry, A., B. Taylor, L. Rojas-Bracho, S. Rankin, A. Jaramillo-Legoretta, T. Akamatsu, J. Barlow, T. Gerrodette, C. Hall, A. Jackson, J. V. Redfern, R. Swift, and N. Tregenza. 2012. Cruise report for the Vaquita Expedition in 2008 conducted aboard NOAA Ship David Starr Jordan, R/V Koipai Yu-Xa, and the Vaquita Express. Page 41. NOAA Technical Memorandum NOAA-TM-NMFS-SWFSC-495, U.S. Department of Commerce, National Marine Fisheries Service, Southwest Fisheries Science Center, La Jolla, CA.
- Becker, E. A., K. A. Forney, M. C. Ferguson, J. Barlow, and J.V. Redfern. 2012. Predictive Modeling of Cetacean Densities in the California Current Ecosystem based on Summer/Fall Ship Surveys in 1991-2008. Page 45. NOAA Technical Memorandum NMFS-SWFSC-499, U.S. Department of Commerce, National Marine Fisheries Service, Southwest Fisheries Science Center, La Jolla, CA.
- Barlow, J., A. Henry, J. V. Redfern, T. Yack, A. Jackson, C. Hall, E. Archer, and L. Ballance. 2010. Oregon, California and Washington line-transect and ecosystem (ORCAWALE) 2008 cruise report. Page 33.

- NOAA Technical Memorandum NOAA-TM-NMFS-SWFSC-465, U.S. Department of Commerce, National Marine Fisheries Service, Southwest Fisheries Science Center, La Jolla, CA.
- Chivers, S. J., W. L. Perryman, N. M. Kellar, J. V. Carretta, F. I. Archer, J. V. Redfern, A. E. Henry, M. S. Lynn, C. Hall, A. Jackson, G. Serra-Valente, T. J. Moore, C. Surrey-Marsden, and L. T. Ballance. 2010. Ecosystem survey of Delphinus species cruise report. Page 54. NOAA Technical Memorandum NMFS-SWFSC-464, U.S. Department of Commerce, National Marine Fisheries Service, Southwest Fisheries Science Center, La Jolla, CA.
- Barlow, J., M. C. Ferguson, E. A. Becker, J. V. Redfern, K. A. Forney, I. L. Vilchis, P. C. Fiedler, T. Gerrodette, and L. T. Ballance. 2009. Predictive modeling of cetacean densities in the eastern Pacific Ocean. Page 206. NOAA Technical Memorandum NMFS-SWFSC-444, U.S. Department of Commerce, National Marine Fisheries Service, Southwest Fisheries Science Center, La Jolla, CA.
- Hamilton, T. A., J. V. Redfern, J. Barlow, L. T. Ballance, T. Gerrodette, R. S. Holt, K. A. Forney, and B. L. Taylor. 2009. Atlas of cetacean sightings for Southwest Fisheries Science Center cetacean and ecosystem surveys: 1986-2005. Page 70. NOAA Technical Memorandum NOAA-TM-NMFS-SWFSC-440, U.S. Department of Commerce, National Marine Fisheries Service, Southwest Fisheries Science Center, La Jolla, CA.
- Gaylard, A., N. Owen-Smith, and J. Redfern. 2003. Surface water availability: Implications for heterogeneity and ecosystem processes. Pages 171-188 in J. du Toit, H. Biggs, and K. Rogers, editors. *The Kruger Experience: Ecology and Management of Savanna Heterogeneity*. Island Press, California, USA. 519pp.

SELECTED PRESENTATIONS

- 2023 Invited speaker, Congressional Briefing: Insights From An Ocean Wilderness: America's newest marine national monument, the Northeast Canyons and Seamounts. Redfern, J. V. New England Aquarium research to support the Northeast Canyons and Seamounts Marine National Monument
- 2022 Invited speaker, Northeast Canyons and Seamounts Marine National Monument Public Scoping Session at the New England Aquarium. Redfern, J. V. New England Aquarium research to support the Northeast Canyons and Seamounts Marine National Monument
- 2020 Invited panelist, Afloat 2020 American Floating Offshore Wind Technical Summit. Redfern, J.V. Tools to identify and minimize risks to marine mammals.
- 2020 Invited panelist, American Wind Energy Association (AWEA) Offshore Windpower conference and exhibition. Redfern, J.V. Tools to identify and minimize risks to marine mammals.
- 2020 Invited panelist, Pacific Ocean Energy Trust webinar. Redfern, J. V. Identifying risks to marine mammals.
- 2019 Speaker, American Fisheries Society and The Wildlife Society Joint Annual Conference, Reno, Nevada. Redfern, J. V., E. A. Becker, and T. J. Moore. Effects of variability in ship traffic and whale distributions on the risk of ships striking whales.
- 2018 Invited speaker, Scripps Institution of Oceanography Ecology Seminar Series, UC San Diego, CA. Redfern, J.V. Assessing risks to whales from commercial shipping.
- 2017 Invited participant and speaker, Cetacean abundance and distribution in the North Atlantic, Halifax, Canada. Redfern, J.V. Cetacean-Habitat Relationships: From basic science to conservation and management.
- 2016 Invited panelist and speaker, Southern California Marine Mammal Conference, Newport Beach, California. Status of Blue Whales in the Eastern North Pacific and Current Threats. Redfern, J. V., J. Calambokidis, and T. J. Moore. Assessing the risk of ships striking blue whales.
- 2016 Invited speaker, CAnMove International Symposium: Bridging the Gap Between Modelling and Tracking Data, Lund University, Sweden. Redfern, J. V. Cetacean habitat modeling and risk assessment in the eastern Pacific Ocean.

- 2015 Invited participant and speaker, Ship Strike Risk to Large Whales in the Great Barrier Reef, Hobart, Australia. Redfern, J. V. Assessing Risks to Whales in the Southern California Bight.
- 2014 Invited participant and speaker, Joint IWC and SPAW/UNEP Workshop to Address Collisions between Marine Mammals and Ships with a Focus on the Wider Caribbean, Gamboa, Panama. Redfern, J. V. Assessing the risk of ships striking large whales.
- 2013 Invited speaker, Marine Mammal Commission Annual Meeting, San Diego, CA. Redfern et al. 1) Cetacean habitat modeling in the eastern Pacific Ocean. 2) Assessing vessel-strike risk off Southern California. 3) Revisiting stock structure through incorporation of ecosystem data.
- 2013 Invited speaker, Pacific Scientific Review Group Meeting, San Diego, CA. Redfern et al. Whales and Ships in the Southern California Bight.
- 2012 Invited speaker, Mapping Cetaceans and Sound: Modern Tools for Ocean Management, Washington, DC. Redfern, J. V. Cetacean Mapping Applications: Identification of Priority Habitat and Risk Assessment.
- 2011 Invited panelist and speaker, Second International Conference on Marine Mammal Protected Areas, Fort de France and Les Trois Ilets, Martinique. Redfern et al. Approaches to defining critical habitat.
- 2011 Panel co-moderator and speaker, Southern California Marine Mammal Conference, Newport Beach, CA. Redfern, J. V., M. F. McKenna, and T. J. Moore. Whales and Ships in the Southern California Bight.
- 2010 Invited speaker, Environmental Science, Policy, and Management Department Seminar Series, University of California, Berkeley, CA. Redfern, J. V. Ecosystem-based assessments of protected marine species: working at the crossroads of environmental science, policy, and management.
- 2009 Keynote speaker, Science, Mathematics, Articulation, Resource, and Technology Conference, Southwestern Community College, San Diego, CA. Redfern, J. V. Using Ecology and Mathematics to Unravel a Dolphin Conservation Mystery.
- 2008 Invited speaker, Mathematics, Science, and Engineering Faculty Lecture Series, Southwestern Community College, San Diego, CA. Redfern, J. V. Using Statistical Modeling to Explore Marine Mammal-Habitat Relationships.
- 2007 Speaker, Climate Impacts on Top Predators. GLOBEC. La Paz, Baja California. Redfern et al. The Effect of Spatial Resolution and Extent on Cetacean-Habitat Relationships in the Eastern Pacific Ocean.
- 2007 Invited speaker, Moss Landing Marine Lab Seminar Series, Moss Landing, CA. Redfern, et al. The Effect of Spatial Scale on Cetacean-Habitat Models.
- 2006 Speaker, International Meeting of the Society for Conservation Biology, San Jose, CA. Redfern et al. The effect of spatial scale on cetacean-habitat models.
- 2006 Invited speaker, Marine Biodiversity and Conservation Program Seminar, Scripps Institution of Oceanography, La Jolla, CA. Redfern, J. V. Using GIS in the Development of Cetacean-Habitat Models.
- 2006 Invited speaker, Scripps Institution of Oceanography Ecology Seminar Series, UC San Diego, CA. Redfern et al. The effect of spatial scale on cetacean-habitat models.
- 2005 Speaker, 16th Biennial Conference of the Society for Marine Mammalogy, San Diego, CA. Redfern et al. The effect of spatial scale on cetacean-habitat models.