

## Marine Mammal Laboratory Publications and Reports 2017

(\*Updated 3/6/19)

(Authors citing affiliation with MML are denoted in boldface)

BALANCE, L. T. MRIDULA SRINIVASAN, A. HENRY, **R. ANGLISS**, L. BARRE, J. BARLOW, **J. BENGTON**, S. BETTRIDGE, J. BOHNSACK, S. BROWN, **P. CLAPHAM**, C. FAHY, M. FORD, L. GARRISON, T. GERRODETTE, N. LeBOEUF, J. MOORE, E. OLESON, D. PALKA, F. PARRISH, J. REDFERN, M. SIMPKINS, B. TAYLOR, and **P. WADE**. 2017. *A strategic plan for conducting large geographic scale, ship-based surveys to support the U.S. Marine Mammal Protection and Endangered Species Acts*. U.S. Department of Commerce, Seattle, WA. (NOAA Technical Memorandum NMFS-F/SPO-169) 20p. <https://spo.nmfs.noaa.gov/sites/default/files/TM169.pdf>

BELTRAN, R. S., **J. W. TESTA**, and J. M. BURNS. 2017. An agent-based bioenergetics model for predicting impacts of environmental change on a top marine predator, the Weddell seal. *Ecological Modelling* 351:36-50. DOI: <https://doi.org/10.1016/j.ecolmodel.2017.02.002>

BORTOLOTTI, G. A., D. DANILEWICZ, P. S. HAMMOND, L. THOMAS, and **A. N. ZERBINI**. 2017. Whale distribution in a breeding area: spatial models of habitat use and abundance of western South Atlantic humpback whales. *Marine Ecology Progress Series* 585:213-227. DOI: <https://doi.org/10.3354/meps12393>

**BROWER, A. A., M. C. FERGUSON**, S. V. SCHONBERG, S. C. JEWETT, and J. T. CLARKE. 2017. Gray whale distribution relative to benthic invertebrate biomass and abundance: Northeastern Chukchi Sea 2009–2012. *Deep Sea Research II* 144:156-174. DOI: <https://doi.org/10.1016/j.dsr2.2016.12.007>

BUHNERKEMPE, M. G., K. C. PRAGER, C. C. STRELIOFF, D. J. GREIG, **J. L. LAAKE, S. R. MELIN, R. L. DeLONG**, F. M. D. GULLAND, and J. O. LLOYD-SMITH. 2017. Detecting signals of chronic shedding to explain pathogen persistence: *Leptospira interrogans* in California sea lions. *Journal of Animal Ecology* 86(3):460-472. DOI: <https://doi.org/10.1111/1365-2656.12656>

CARRETTA, J. V., K. A. FORNEY, E. M. OLESON, D. W. WELLER, A. R. LANG, J. BAKER, **M. M. MUTO**, B. HANSON, **A. J. ORR, H. HUBER**, M. S. LOWRY, J. BARLOW, J. E. MOORE, D. LYNCH, L. CARSWELL, and R. L. BROWNELL Jr. 2017. *U.S. Pacific marine mammal stock assessments: 2016*. U.S. Department of Commerce, La Jolla, CA. (NOAA Technical Memorandum NMFS-SWFSC-577) 407p. DOI: <https://doi.org/10.7289/V5/TM-SWFSC-577>

CARRETTA, J. V., **M. M. MUTO**, J. GREENMAN, K. WILKINSON, D. LAWSON, J. VIEZBICKE, and J. JANNOT. 2017. *Sources of human-related injury and mortality for U.S. Pacific west coast marine mammal stock assessments, 2011-2015*. U.S. Department of Commerce, La Jolla, CA. (NOAA Technical Memorandum NMFS-SWFSC-579) 126p. DOI: <https://doi.org/10.7289/V5/TM-SWFSC-579>

CITTA, J. J., P. RICHARD, L. F. LOWRY, G. O'CORRY-CROWE, M. MARCOUX, R. SUYDAM, L. T. QUAKENBUSH, **R. C. HOBBS**, D. I. LITOVKA, K. J. FROST, T. GRAY, J. ORR, B. TINKER, H. ADERMAN, and M. L. DRUCKENMILLER. 2017. Satellite telemetry reveals

population specific winter ranges of beluga whales in the Bering Sea. *Marine Mammal Science* 33(1):236-250. DOI: <https://doi.org/10.1111/mms.12357>

**CLAPHAM, P. J.** 2017. Whaling permits: Japan disregards whaling review again. *Nature* 547:32. DOI: <https://doi.org/10.1038/547032b>

**CLAPHAM, P. J.** 2017. When it's right to be wrong. *Marine Mammal Science* 33(3):966-967. DOI: <https://doi.org/10.1111/mms.12418> OPEN ACCESS

**CONN, P. B., J. T. THORSON, and D. S. JOHNSON.** 2017. Confronting preferential sampling when analyzing population distributions: diagnosis and model-based triage. *Methods in Ecology and Evolution* 8(11):1535-1546. DOI: <https://doi.org/10.1111/2041-210X.12803>

**CRANCE, J. L., C. L. BERCHOK, and J. L. KEATING.** 2017. Gunshot call production by the North Pacific right whale *Eubalaena japonica* in the southeastern Bering Sea. *Endangered Species Research* 34:251-267. DOI: <https://doi.org/10.3354/esr00848>

DAVIS, G. E., M. F. BAUMGARTNER, J. M. BONNELL, J. BELL, **C. BERCHOK**, J. BORT THORNTON, S. BRAULT, G. BUCHANAN, R. A. CHARIF, D. CHOLEWIAK, C. W. CLARK, P. CORKERON, J. DELARUE, K. DUDZINSKI, L. HATCH, J. HILDEBRAND, L. HODGE, H. KLINCK, S. KRAUS, B. MARTIN, D. K. MELLINGER, H. MOORS-MURPHY, S. NIEUKIRK, D. P. NOWACEK, S. PARKS, A. J. READ, A. N. RICE, D. RISCH, A. ŠIROVIĆ, M. SOLDEVILLA, K. STAFFORD, J. E. STANISTREET, E. SUMMERS, S. TODD, A. WARDE, and S. M. Van PARIJS. 2017. Long-term passive acoustic recordings track the changing distribution of North Atlantic right whales (*Eubalaena glacialis*) from 2004 to 2014. *Scientific Reports* 7:e13460. DOI: <https://doi.org/10.1038/s41598-017-13359-3>

**DeLONG, R. L., S. R. MELIN, J. L. LAAKE, P. MORRIS, A. J. ORR, and J. D. HARRIS.** 2017. Age- and sex-specific survival of California sea lions (*Zalophus californianus*) at San Miguel Island, California. *Marine Mammal Science* 33(4):1097-1125. DOI: <https://doi.org/10.1111/mms.12427>

De MORAIS, I. O. B., D. DANILEWICZ, **A. N. ZERBINI**, W. EDMONDSON, I. B. HART, and G. A. BORTOLOTTI. 2017. From the southern right whale hunting decline to the humpback whaling expansion: a review of whale catch records in the tropical western South Atlantic Ocean. *Mammal Review* 47(1):11-23. DOI: <https://doi.org/10.1111/mam.12073>

FALCONE, E. A., G. S. SCHORR, S. L. WATWOOD, S. L. DeRUITER, A. N. ZERBINI, R. D. ANDREWS, R. P. MORRISSEY, and D. J. MORETTI. 2017. Diving behaviour of Cuvier's beaked whales exposed to two types of military sonar. *Royal Society Open Science* 4(8):e170629. DOI: <https://doi.org/10.1098/rsos.170629>

FINDLAY, K. P., S. M. SEAKAMELA, M. A. MEYER, S. P. KIRKMAN, J. BARENDSE, D. E. CADE, D. HURWITZ, **A. S. KENNEDY**, P. G. H. KOTZE, S. A. McCUE, M. THORNTON, O. A. VARGAS-FONSECA, and G. G. WILKE. 2017. Humpback whale "super-groups" - A novel low-latitude feeding behaviour of Southern Hemisphere humpback whales (*Megaptera novaeangliae*) in the Benguela Upwelling System. *PLoS One* 12(3): e0172002. DOI: <https://doi.org/10.1371/journal.pone.0172002> OPEN ACCESS

FOMIN, S. V., S. D. RYAZANOV, I. A. USATOV, and **V. N. BURKANOV.** 2017. Encounters with the Cuvier's beaked whale, *Ziphius cavirostris* Cuvier, 1823 (Cetacea: Ziphiidae), in waters off

eastern Kamchatka and the Commander Islands. *Russian Journal of Marine Biology* 43(3):245-248. DOI: <https://doi.org/10.1134/s106307401703004x>

FRANKLIN, W., T. FRANKLIN, S. CERCHIO, H. ROSENBAUM, C. JENNER, M. JENNER, L. GONCALVES, R. LEAPER, P. HARRISON, L. BROOKS, and **P. CLAPHAM**. 2017. Photo-identification comparison of humpback whale (*Megaptera novaeangliae*) flukes from Antarctic Area IV with fluke catalogues from East Africa, Western Australia and Eastern Australia. *Journal of Cetacean Research and Management* 17:1-7.

**GEARIN, P. J., S. R. MELIN, R. L. DeLONG, M. E. GOSHO**, and S. J. JEFFRIES. 2017. *Migration patterns of adult male California sea lions* (*Zalophus californianus*). Seattle, WA, U.S. Department of Commerce. (NOAA Technical Memorandum NMFS-AFSC-346) 29p. DOI: <https://doi.org/10.7289/V5/TM-AFSC-346> OPEN ACCESS

GURARIE, E., **J. L. BENGTSON**, M. N. BESTER, A. S. BLIX, **M. CAMERON**, H. BORNEMANN, E. S. NORDØY, J. PLÖTZ, D. STEINHAGE, and **P. BOVENG**. 2017. Distribution, density and abundance of Antarctic ice seals off Queen Maud Land and the eastern Weddell Sea. *Polar Biology* 40(5):1149-1165. DOI: <https://doi.org/10.1007/s00300-016-2029-4>  
\*See also: Erratum with corrections to Tables 2 and 3: *Polar Biology* 40(5):1167-1168. DOI: <https://doi.org/10.1007/s00300-016-2050-7> OPEN ACCESS

HANKS, E. M., **D. S. JOHNSON**, and M. B. HOOTEN. 2017. Reflected stochastic differential equation models for constrained animal movement. *Journal of Agricultural, Biological and Environmental Statistics* 22(3):353-372. DOI: <https://doi.org/10.1007/s13253-017-0291-8>

HARVEY, C., N. GARFIELD, G. WILLIAMS, K. ANDREWS, C. BARCELO, K. BARNAS, S. BOGRAD, R. BRODEUR, B. BURKE, J. COPE, L. deWITT, J. FIELD, J. FISHER, C. GREENE, T. GOOD, E. HAZEN, D. HOLLAND, M. JACOX, S. KASPERSKI, S. KIM, A. LEISING, **S. MELIN**, C. MORGAN, S. MUNSCH, K. NORMN, W. T. PETERSON, M. POE, J. SAMHOURI, I. SCHROEDER, W. SYDEMAN, J. THAYER, A. THOMPSON, N. TOLIMEIRI, A. VARNEY, B. WELLS, T. WILLIAMS, and J. ZAMON. 2017. Ecosystem status report of the California Current for 2017: a summary of ecosystem indicators compiled by the California Current Integrated Ecosystem Assessment Team (CCIEA). U. S. Department of Commerce, Seattle, WA. (NOAA Technical Memorandum NMFS-NWFSC-139) 52p. DOI: <https://doi.org/10.7289/V5/TM-NWFSC-139>

HEFLEY, T. J., **B. M. BROST**, and M. B. HOOTEN. 2017. Bias correction of bounded location errors in presence-only data. *Methods in Ecology and Evolution* 8(11):1566-1573. DOI: <https://doi.org/10.1111/2041-210X.12793>

**HELKER, V. T., M. M. MUTO**, K. SAVAGE, S. TEERLINK, L. A. JEMISON, K. WILKINSON, and J. JANNOT. 2017. *Human-caused mortality and injury of NMFS-managed Alaska marine mammal stocks, 2011-2015*. Seattle, WA: U.S. Department of Commerce. (NOAA Technical Memorandum NMFS-AFSC-354) 112p. DOI: <https://doi.org/10.7289/V5/TM-AFSC-354> OPEN ACCESS

HILL, H. M., S. GUARINO, A. CALVILLO, A. GONZALEZ III, K. ZUNIGA, C. BELLOWS, L. POASEK, and **C. SIMS**. 2017. Lateralized swim positions are conserved across environments

for beluga (*Delphinapterus leucas*) mother-calf pairs. *Behavioural Processes* 138:22-28. DOI: <https://doi.org/10.1016/j.beproc.2017.01.018>

HOOTEN, M. B., **D. S. JOHNSON**, **B. T. McCLINTOCK** and J. M. MORALES. 2017. *Animal movement: statistical models for telemetry data*. Boca Raton, FL, CRC Press / Taylor & Francis Group. 306p.

HORNING, M., M. HAULENA, P. A. TUOMI, J.-A. E. MELLISH, C. E. GOERTZ, K. WOODIE, R. K. BERNGARTT, S. JOHNSON, C. R. SHUERT, K. A. WALKER, J. P. SKINNER, and **P. L. BOVENG**. 2017. Best practice recommendations for the use of fully implanted telemetry devices in pinnipeds. *Animal Biotelemetry* 5:e13. DOI: <https://doi.org/10.1186/s40317-017-0128-9> **Errata:** *Animal Biotelemetry* 5:e16. DOI: <https://doi.org/10.1186/s40317-017-0131-1>

HORTON, T. W., N. HAUSER, **A. N. ZERBINI**, M. P. FRANCIS, M. L. DOMEIER, A. ANDRIOLO, D. P. COSTA, P. W. ROBINSON, C. A. J. DUFFY, N. NASBY-LUCAS, R. N. HOLDAWAY, and **P. J. CLAPHAM**. 2017. Route fidelity during marine megafauna migration. *Frontiers in Marine Science* 4:e422. DOI: <https://doi.org/10.3389/fmars.2017.00422>

ISAAK, D. J., **J. M. Ver HOF**, E. E. PETERSON, D. L. HORAN, and D. E. NAGEL. 2017. Scalable population estimates using spatial-stream-network (SSN) models, fish density surveys, and national geospatial database frameworks for streams. *Canadian Journal of Fisheries and Aquatic Sciences* 74(2):147-156. DOI: <https://doi.org/10.1139/cjfas-2016-0247>

ISAAK, D. J., S. J. WENGER, E. E. PETERSON, **J. M. Ver HOF**, D. E. NAGE., C. H. LUCE, S. W. HOSTETLER, J. B. DUNHAM, B. B. ROPER, S. P. WOLLRAB, G. L. CHANDLER, D. L. HORAN, and S. PARKES-PAYNE. 2017. The NorWeST summer stream temperature model and scenarios for the western US: A crowd-sourced database and new geospatial tools foster a user community and predict broad climate warming of rivers and streams. *Water Resources Research* 53(11):9181-9205. DOI: <https://doi.org/10.1002/2017wr020969>

**IVASHCHENKO, Y. V.** and **P. J. CLAPHAM**. 2017. Evaluation of the accuracy of reported noon positions from Soviet whaling factory ships. *Journal of Cetacean Research and Management* 17:23-28.

**IVASHCHENKO, Y. V.**, **P. J. CLAPHAM**, and R. L. BROWNELL, Jr. 2017. New data on Soviet catches of blue (*Balaena musculus*) and right whales (*Eubalaena japonica*) in the North Pacific. *Journal of Cetacean Research and Management* 17:15-22.

JARAMILLO-LEGORRETA, A., G. CARDENAS-HINOJOSA, E. NIETO-GARCIA, L. ROJAS-BRACHO, **J. M. Ver HOF**, N. TREGENZA, J. BARLOW, T. GERRODETTE, L. THOMAS, and B. TAYLOR. 2017. Passive acoustic monitoring of the decline of Mexico's critically endangered vaquita. *Conservation Biology* 31(1):183-191. DOI: <https://doi.org/10.1111/cobi.12789> OPEN ACCESS

**JOHNSON, D. S.** and **E. H. SINCLAIR**. 2017. Modeling joint abundance of multiple species using Dirichlet process mixtures. *Environmentrics* 28(3):e2440. DOI: <https://doi.org/10.1002/env.2440>

JOYCE, T. W., J. W. DURBAN, D. E. CLARIDGE, C. A. DUNN, H. FEARNBACH, **K. M. PARSONS**, R. D. ANDREWS, L. T. BALLANCE. 2017. Physiological, morphological, and ecological tradeoffs influence vertical habitat use of deep-diving toothed-whales in the

Bahamas. *PLoS One* 12(10):e0185113. DOI: <https://doi.org/10.1371/journal.pone.0185113> OPEN ACCESS

**KENNEDY, A. S.** and **P. J. CLAPHAM.** 2017. From whaling to tagging: The evolution of North Atlantic humpback whale research in the West Indies. *Marine Fisheries Review* 79(2):23-37. DOI: <https://doi.org/10.7755/MFR.79.2.2>

**KUHN, C. E., K. CHUMBLEY, D. JOHNSON,** and **L. FRITZ.** 2017. A re-examination of the timing of pupping for Steller sea lions *Eumetopias jubatus* breeding on two islands in Alaska. *Endangered Species Research* 32:213-222. DOI: <https://doi.org/10.3354/esr00796> OPEN ACCESS

**KUHN, C. E., K. CHUMBLEY, L. FRITZ,** and **D. JOHNSON.** 2017. Estimating dispersal rates of Steller sea lion (*Eumetopias jubatus*) mother-pup pairs from a natal rookery using mark-resight data. *PLoS One* 12(12):e0189061. DOI: <https://doi.org/10.1371/journal.pone.0189061> OPEN ACCESS

LAI DRE, K., **R. HOBBS,** and R. FERRERO. 2017. *Summer, fall, and early winter behavior of beluga whales, Delphinapterus leucas, satellite-tagged in Cook Inlet, Alaska, in 1999 and 2000.* Seattle, WA, U.S. Department of Commerce. (AFSC Processed Report NMFS-AFSC 2017-08) 33p. DOI: <https://doi.org/10.7289/V5/AFSC-PR-2017-08>  
<https://www.afsc.noaa.gov/Publications/ProcRpt/PR2017-08.pdf>

LITTNAN, C., M. BARBIERI, J. LOPEZ BOHLANDER, T. NORRIS, S. ROBINSON, and **K. WILSON.** 2017. Hawaiian monk seals: The biology and ecology of the world's only tropical phocid, pp. 50-68 *In:* J. J. Alava, editor, *Tropical Pinnipeds: Bio-Ecology, Threats and Conservation.* Boca Raton, FL, CRC Press, Taylor & Francis Group.

LOWRY, M. S., **S. R. MELIN,** and **J. L. LAAKE.** 2017. *Breeding season distribution and population growth of California sea lions, Zalophus californianus, in the United States during 1964-2014.* U.S. Department of Commerce, La Jolla, CA. (NOAA Technical Memorandum NMFS-SWFSC-574) 63p. URL: <https://swfsc.noaa.gov/publications/TM/SWFSC/NOAA-TM-NMFS-SWFSC-574.pdf>

\*LOWRY, L. F., **A. ZERBINI,** K. J. FROST, D. P. DeMASTER, and **R. C. HOBBS.** 2017. Development of an abundance estimate for the eastern Bering Sea stock of beluga whales (*Delphinapterus leucas*). *Journal of Cetacean Research and Management* 16:39-48. Available online at: [https://archive.iwc.int/pages/terms.php?ref=6884&k=&search=%21collection15+&url=%2Fpage%2Fdownload\\_progress.php%3Fref%3D6884%26ext%3Dpdf%26k%3D%26alternative%3D3550%26search%3D%2521collection15%2B%26offset%3D0%26archive%3D%26sort%3DDESC%26order\\_by%3Dtitle](https://archive.iwc.int/pages/terms.php?ref=6884&k=&search=%21collection15+&url=%2Fpage%2Fdownload_progress.php%3Fref%3D6884%26ext%3Dpdf%26k%3D%26alternative%3D3550%26search%3D%2521collection15%2B%26offset%3D0%26archive%3D%26sort%3DDESC%26order_by%3Dtitle)

MANNOCCI, L., A. M. BOUSTANY, J. J. ROBERTS, D. M. PALACIOS, D. C. DUNN, P. N. HALPIN, S. VIEHMAN, J. MOXLEY, J. CLEARY, H. BAILEY, S. J. BOGRAD, E. A. BECKER, B. GARDNER, J. R. HARTOG, E. L. HAZEN, **M. C. FERGUSON,** K. A. FORNEY, B. P. KINLAN, M. J. OLIVER, C. T. PERRETTI, V. RIDOUX, S. L. H. TEO, and A. J. WINSHIP. 2017. Temporal resolutions in species distribution models of highly mobile marine animals: Recommendations for ecologists and managers. *Diversity and Distributions*



23(10):1098-1109. DOI: <https://doi.org/10.1111/ddi.12609> - Added to the list 3-23-18, **not** included in the 2017 MML publication counts by program submitted 3-1-18.

**McCLINTOCK, B. T.** 2017. Incorporating telemetry error into hidden Markov models of animal movement using multiple imputation. *Journal of Agricultural, Biological and Environmental Statistics* 22(3):249-269. DOI: <https://doi.org/10.1007/s13253-017-0285-6> OPEN ACCESS

**McCLINTOCK, B. T., J. M. LONDON, M. F. CAMERON, and P. L. BOVENG.** 2017. Bridging the gaps in animal movement: hidden behaviors and ecological relationships revealed by integrated data streams. *Ecosphere* 8(3):e1751. DOI: <https://doi.org/10.1002/ecs2.1751> OPEN ACCESS

MOORE, M. J. and **A. N. ZERBINI.** 2017. Dolphin blubber/ axial muscle shear: implications for rigid trans-dermal intra-muscular tracking tag trauma in whales. *Journal of Experimental Biology* 220(20):3717-3723. DOI: <https://doi.org/10.1242/jeb.165282>

MORDY, C. W., E. D. COKELET, A. De ROBERTIS, R. JENKINS, **C. E. KUHN, N. LAWRENCE-SLAVAS, C. L. BERCHOK, J. L. CRANCE, J. T. STERLING, J. N. CROSS, P. J. STABENO, C. MEINIG, H. M. TABISOLA, W. BURGESS, and I. WANGEN.** 2017. Advances in ecosystem research: Sailerone surveys of oceanography, fish, and marine mammals in the Bering Sea. *Oceanography* 30(2):113-115. DOI: <https://doi.org/10.5670/oceanog.2017.230>

MOREY, J. S., K. A. B. HUNTINGTON, M. CAMPBELL, T. M. CLAUSS, C. E. GOERTZ, **R. C. HOBBS, D. LUNARDI, A. J. MOORS, M. G. NEELY, L. H. SCHWACKE, and F. M. Van DOLAH.** 2017. De novo transcriptome assembly and RNA-Seq expression analysis in blood from beluga whales of Bristol Bay, AK. *Marine Genomics* 35:77-92. DOI: <https://doi.org/10.1016/j.margen.2017.08.001>

MORIN, P. A., C. S. BAKER, R. S. BREWER, A. M. BURDIN, M. L. DALEBOUT, J. P. DINES, I. FEDUTIN, O. FILATOVA, E. HOYT, J. L. JUNG, M. LAUF, C. W. POTTER, G. RICHARD, M. RIDGWAY, K. M. ROBERTSON, and **P. R. WADE.** 2017. Genetic structure of the beaked whale genus *Berardius* in the North Pacific, with genetic evidence for a new species. *Marine Mammal Science* 33(1):96-111. DOI: <https://doi.org/10.1111/mms.12345>

**MUTO, M. M., V. T. HELKER, R. P. ANGLISS, B. A. ALLEN, P. L. BOVENG, J. M. BREIHWICK, M. F. CAMERON, P. J. CLAPHAM, S. P. DAHLE, M. E. DAHLHEIM, B. S. FADELY, M. C. FERGUSON, L. W. FRITZ, R. C. HOBBS, Y. V. IVASHCHENKO, A. S. KENNEDY, J. M. LONDON, S. A. MIZROCH, R. R. REAM, E. L. RICHMOND, K. E. W. SHELDEN, R. G. TOWELL, P. R. WADE, J. M. WAITE, and A. N. ZERBINI.** 2017. *Alaska marine mammal stock assessments, 2016*. Seattle, WA U.S. Department of Commerce. (NOAA Technical Memorandum NMFS-AFSC-355) 366p. DOI: <https://doi.org/10.7289/V5/TM-AFSC-355> OPEN ACCESS

NEITLICH, P. N., **J. M. Ver HOEF, S. D. BERRYMAN, A. MINES, L. H. GEISER, L. M. HASSELBACH, and A. E. SHIEL.** 2017. Trends in spatial patterns of heavy metal deposition on National Park Service lands along the Red Dog Mine haul road, Alaska, 2001-2006. *PLoS One* 12(5):e0177936 DOI: <https://doi.org/10.1371/journal.pone.0177936> OPEN ACCESS

**ORR, A. J., J. D. HARRIS, K. A. HIRSCHBERGER, R. L. DeLONG, G. S. SANDERS, and J. L. LAAKE.** 2017. *Qualitative and quantitative assessment of use of offshore oil and gas platforms by the California sea lion (Zalophus californianus)*. Seattle, Washington, U.S. Department of

Commerce. (NOAA Technical Memorandum NMFS-AFSC-362) 72p. DOI: <https://doi.org/10.7289/V5/TM-AFSC-362>

OSTROM, P. H., A. E. WILEY, H. F. JAMES, S. ROSSMAN, **W. A. WALKER**, E. F. ZIPKIN, and Y. CHIKARAISHI. 2017. Broad-scale trophic shift in the pelagic North Pacific revealed by an oceanic seabird. *Proceedings of the Royal Society B* 284(1851):e20162436 DOI: <https://doi.org/10.1098/rspb.2016.2436>

PACK, A. A., E. Y. K. HERMAN, C. S. BAKER, G. B. BAUER, **P. J. CLAPHAM**, R. C. CONNOR, A. S. CRAIG, P. H. FORESTELL, A. S. FRANKEL, G. N. Di SCIARA, M. HOFFMANN-KUHNT, E. MERCADO, J. MOBLEY, M. R. SHYAN-NORWALT, S. S. SPITZ, M. SOLANGI, R. K. R. THOMPSON, L. Von FERSEN, R. UYAYAMA, R. WELLS, and J. P. WOLZ. 2017. Louis M. Herman 1930-2016. *Marine Mammal Science* 33(1):389-406. DOI: <https://doi.org/10.1111/mms.12387>

PANIGADA, S., G. P. DONOVAN, J. N. DRUON, G. LAURIANO, N. PIERANTONIO, E. PIROTTA, M. ZANARDELLI, **A. N. ZERBINI**, and G. N. Di SCIARA. 2017. Satellite tagging of Mediterranean fin whales: working towards the identification of critical habitats and the focussing [sic] of mitigation measures. *Scientific Reports* 7:e3365. DOI: <https://doi.org/10.1038/s41598-017-03560-9> OPEN ACCESS

PEREZ-PUIG, H., G. HECKEL, and **J. M. BREIWICK**. 2017. Abundance estimation of gray whale (*Eschrichtius robustus*) calves from shore-based surveys undertaken near Ensenada, Baja California, Mexico, 2004-2006. *Marine Mammal Science* 33(2):593-610. DOI: <https://doi.org/10.1111/mms.12401>

RICHARD, J. T., K. SCHULTZ, C. GOERTZ, **R. HOBBS**, T. A. ROMANO, and B. L. SARTINI. 2017. Assessing the quantity and downstream performance of DNA Isolated from beluga (*Delphinapterus leucas*) blow samples. *Aquatic Mammals* 43(4):398-408. DOI: <https://doi.org/10.1578/AM.43.4.2017.398>

**RONE, B. K., A. N. ZERBINI**, A. B. DOUGLAS, D. W. WELLER, and **P. J. CLAPHAM**. 2017. Abundance and distribution of cetaceans in the Gulf of Alaska. *Marine Biology* 164(1):e23. DOI: <https://doi.org/10.1007/s00227-016-3052-2>

ROSEL, P. E., B. L. TAYLOR, B. L. HANCOCK-HANSER, P. A. MORIN, F. I. ARCHER, A. R. LANG, S. L. MESNICK, V. L. PEASE, W. F. PERRIN, K. M. ROBERTSON, M. S. LESLIE, A. BERTA, F. CIPRIANO, **K. M. PARSONS**, A. VIRICEL, N. L. VOLLMER, and K. K. MARTIEN. 2017. A review of molecular genetic markers and analytical approaches that have been used for delimiting marine mammal subspecies and species. *Marine Mammal Science* 33(Special Issue):56-75. DOI: <https://doi.org/10.1111/mms.12412> OPEN ACCESS

ROUSE, N., K. BUREK-HUNTINGTON, and **K. SHELDEN**. 2017. Asphyxiation of an endangered Cook Inlet beluga whale, *Delphinapterus leucas*. *Marine Fisheries Review* 79(2):38-43. DOI: <https://doi.org/10.7755/MFR.79.2.3>

SCALES, K. L., G. S. SCHORR, E. L. HAZEN, S. J. BOGRAD, P. I. MILLER, R. D. ANDREWS, **A. N. ZERBINI**, and E. A. FALCONE. 2017. Should I stay or should I go? Modelling year-round habitat suitability and drivers of residency for fin whales in the California Current. *Diversity and Distributions* 23(10):1204-1215. DOI: <https://doi.org/10.1111/ddi.12611C>

\*SCORDINO, J. J., **M. GOSHO, P. J. GEARIN**, A. AKMAJIAN, J. CALAMBOKIDIS, and N. WRIGHT. 2017. Individual gray whale use of coastal waters off northwest Washington during the feeding season 1984-2011: Implications for management. *Journal of Cetacean Research and Management* 16:57-69. Available online at: [https://archive.iwc.int/pages/terms.php?ref=6884&k=&search=%21collection15+&url=%2Fpage%2Fdownload\\_progress.php%3Fref%3D6884%26ext%3Dpdf%26k%3D%26alternative%3D3552%26search%3D%2521collection15%2B%26offset%3D0%26archive%3D%26sort%3DDESC%26order\\_by%3Dtitle](https://archive.iwc.int/pages/terms.php?ref=6884&k=&search=%21collection15+&url=%2Fpage%2Fdownload_progress.php%3Fref%3D6884%26ext%3Dpdf%26k%3D%26alternative%3D3552%26search%3D%2521collection15%2B%26offset%3D0%26archive%3D%26sort%3DDESC%26order_by%3Dtitle)

**SHELDEN, K. E. W., R. C. HOBBS, C. L. SIMS, L. VATE BRATTSTRÖM, J. A. MOCKLIN, C. BOYD,** and B. A. MAHONEY. 2017. *Aerial surveys, abundance, and distribution of beluga whales, Delphinapterus leucas, in Cook Inlet, Alaska, June 2016*. Seattle, WA, U.S. Department of Commerce. (AFSC Processed Report 2017-09) 62p. DOI: <https://doi.org/10.7289/V5/AFSC-PR-2017-09>

**SHELDEN, K. E. W., J. A. MOCKLIN, K. T. GOETZ, D. J. RUGH, L. VATE BRATTSTRÖM,** and **N. A. FRIDAY**. 2017. Late summer distribution of cetaceans near Barrow, Alaska: Results from aerial surveys conducted during the Bowhead Whale Feeding Ecology Study, 2007-11. *Marine Fisheries Review* 79(2):1-22. DOI: <https://doi.org/10.7755/MFR.79.2.1>

SILBER, G. K., M. D. LETTRICH, P. O. THOMAS, J. D. BAKER, M. BAUMGARTNER, E. A. BECKER, **P. BOVENG**, D. M. DICK, J. FIECHTER, J. FORCADA, K. A. FORNEY, R. G. GRIFFIS, J. A. HARE, A. J. HOBDAY, D. HOWELL, K. L. LAIDRE, N. MANTUA, L. QUAKENBUSH, J. A. SANTORA, K. M. STAFFORD, P. SPENCER, C. STOCK, W. SYDEMAN, K. Van HOUTAN, and R. S. WAPLES. 2017. Projecting marine mammal distribution in a changing climate. *Frontiers in Marine Science* 4:413 (14p.). DOI: <https://doi.org/10.3389/fmars.2017.00413>

SMALL, R. J., B. BROST, M. HOOTEN, **M. CASTELLOTE**, and J. MONDRAGON. 2017. Potential for spatial displacement of Cook Inlet beluga whales by anthropogenic noise in critical habitat. *Endangered Species Research* 32: 43-57. DOI: <https://doi.org/10.3354/esr00786> OPEN ACCESS

TAYLOR, B. L., F. I. ARCHER, K. K. MARTIEN, P. E. ROSEL, B. L. HANCOCK-HANSER, A. R. LANG, M. S. LESLIE, S. L. MESNICK, P. A. MORIN, V. L. PEASE, W. F. PERRIN, K. M. ROBERTSON, **K. M. PARSONS**, A. VIRICEL, N. L. VOLLMER, F. CIPRIANO, R. R. REEVES, M. KRUTZEN, and C. S. BAKER. 2017. Guidelines and quantitative standards to improve consistency in cetacean subspecies and species delimitation relying on molecular genetic data. *Marine Mammal Science* 33(Special Issue):132-155. DOI: <https://doi.org/10.1111/mms.12411> OPEN ACCESS

TAYLOR, B. L., L. ROJAS-BRACHO, J. MOORE, A. JARAMILLO-LAGORRETA, **J. M. Ver HOEF**, G. CARDENAS-HINOJOSA, E. NIETO-GARCIA, J. BARLOW, T. GERRODETTE, N. TREGENZA, L. THOMAS, and P. S. HAMMOND. 2017. Extinction is imminent for Mexico's endemic porpoise unless fishery bycatch is eliminated. *Conservation Letters* 10(5):588-595. DOI: <https://doi.org/10.1111/conl.12331>

THODE, A., J. BONNEL, M. THIEURY, A. FAGAN, C. VERLINDEN, **D. WRIGHT, C. BERCHOK,** and **J. CRANCE**. 2017. Using nonlinear time warping to estimate North Pacific right whale calling depths in the Bering Sea. *Journal of the Acoustical Society of America* 141(5):3059-3069. DOI: <https://doi.org/10.1121/1.4982200>



THOMAS, L., A. JARAMILLO-LEGORRETA, G. CARDENAS-HINOJOSA, E. NIETO-GARCIA, L. ROJAS-BRACHO, **J. M. Ver HOF**, J. MOORE, B. TAYLOR, J. BARLOW, and N. TREGENZA. 2017. Last call: Passive acoustic monitoring shows continued rapid decline of critically endangered vaquita. *Journal of the Acoustical Society of America* 142(5):EL512-EL517. DOI: <https://doi.org/10.1121/1.5011673>

TOLLIT, D., **L. FRITZ**, R. JOY, K. MILLER, K. SCHULZE, **J. THOMASON**, **W. WALKER**, **T. ZEPPELIN**, and **T. GELATT**. 2017. Diet of endangered Steller sea lions (*Eumetopias jubatus*) in the Aleutian Islands: new insights from DNA detections and bioenergetics reconstructions. *Canadian Journal of Zoology* 95(11):853-868. DOI: <https://doi.org/10.1139/cjz-2016-0253>

**TRUKHANOVA, I. S.**, A. I. GRACHEV, A. G. SOMOV, **V. N. BURKANOV**, K. L. LAIDRE, and **P. L. BOVENG**. 2017. The commercial harvest of ice-associated seals in the Sea of Okhotsk, 1972-1994. *PLoS One* 12(8):e0182727. DOI: <https://doi.org/10.1371/journal.pone.0182725>

WEDEKIN, L. L., M. H. ENGEL, A. ANDRIOLO, P. I. PRADO, **A. N. ZERBINI**, M. M. C. MARCONDES, P. G. KINAS, and P. C. SIMÕES-LOPES. 2017. Running fast in the slow lane: rapid population growth of humpback whales after exploitation. *Marine Ecology Progress Series* 575:195-206. DOI: <https://doi.org/10.3354/meps12211>

WELLER, D. W., J. V. CARRETTA, S. J. CHIVERS, J. K. B. FORD, A. K. KOWNACKI, A. R. LANG, S. MARTINEZ-AGUILAR, **B. K. RONE**, and A. SCHULMAN-JANIGER. 2017. *Collaborative large whale survey 2015: Gray whale photo-identification catalog. La Jolla, California*. U.S. Department of Commerce. (NOAA Technical Memorandum NMFS-SWFSC-584) 142p. DOI: <https://doi.org/10.7289/V5/TM-SWFSC-584>

WELLS, B. K., I. D. SCHROEDER, S. J. BOGRAD, E. L. HAZEN, M. J. JACOX, A. LEISING, N. MANTUA, J. A. SANTORA, J. FISHER, W. T. PETERSON, E. BJORKSTEDT, R. R. ROBERTSON, F. P. CHAVEZ, R. GOERICKE, R. KUDELA, C. ANDERSON, B. E. LAVANIEGOS, J. GOMEZ-VALDES, R. D. BORDEUR, E. A. DALY, C. A. MORGAN, T. D. AUTH, J. C. FIELD, K. SAKUMA, S. McCLATCHIE, A. R. THOMPSON, E. D. WEBER, W. WATSON, R. M. SURYAN, J. PARRISH, J. DOLLIVER, S. LOREDO, J. M. PORQUEZ, J. E. ZAMON, S. R. SCHNEIDER, R. T. GOLIGHTLY, P. WARZYBOK, R. BRADLEY, J. JAHNCKE, W. SYDEMAN, **S. R. MELIN**, J. A. HILDEBRAND, A. J. DEBICH, and B. THAYRE. 2017. State of the California Current 2016-17: Still anything but "normal" in the north. *California Cooperative Oceanic Fisheries Investigations Reports* 58:1-55. AVAILABLE ONLINE AT: [http://calcofi.org/publications/calcofireports/v58/Vol58-CalCOFI\\_2017.pdf](http://calcofi.org/publications/calcofireports/v58/Vol58-CalCOFI_2017.pdf) OPEN ACCESS

WEST, K. L., **W. A. WALKER**, R. W. BAIRD, J. G. MEAD, and P. W. COLLINS. 2017. Diet of Cuvier's beaked whales *Ziphius cavirostris* from the North Pacific and a comparison with their diet world-wide. *Marine Ecology Progress Series* 574:227-242. DOI: <https://doi.org/10.3354/meps12214>

WRIGHT, B. E., R. F. BROWN, **R. L. DeLONG**, **P. J. GEARIN**, S. D. RIEMER, **J. L. LAAKE**, and J. J. SCORDINO. 2017. Survival rates of Steller sea lions from Oregon and California. *Journal of Mammalogy* 98(3):885-894. DOI: <https://doi.org/10.1093/jmammal/gyx033>

ZIMMERMAN, D. L. and **J. M. Ver HOF**. 2017. The Torgegram for fluvial variography: Characterizing spatial dependence on stream networks. *Journal of Computational and Graphical Statistics* 26(2):253-264. DOI: <https://doi.org/10.1080/10618600.2016.1247006>

