

2009 Publications

**National Marine Mammal Laboratory
Alaska Fisheries Science Center
National Marine Fisheries Service
7600 Sand Point Way NE
Seattle, WA 98115**

ANGLISS, R. P. and B. M. ALLEN. 2009. *Alaska marine mammal stock assessments, 2008.* Seattle, WA: U.S. Department of Commerce. (NOAA Technical Memorandum NMFS-AFSC-193) 252 p. URL:<http://www.nmfs.noaa.gov/pr/pdfs/sars/ak2008.pdf>

BOERSMA, P. D., G. A. REBSTOCK, E. FRERE, and S. E. MOORE. 2009. Following the fish: penguins and productivity in the South Atlantic. *Ecological Monographs* 79(1): 59-76.

BOVENG, P.L., J.L. BENGTSON, T.W. BUCKLEY, M.F. CAMERON, S.P. DAHLE, B.P. KELLY, B.A., MEGREY, J.E. OVERLAND, and N.J. WILLIAMSON. 2009. *Status review of the spotted seal (*Phoca largha*)*. Seattle, WA: U.S. Department of Commerce. (NOAA Technical Memorandum NMFS-AFSC-200) 153p.

URL:<http://www.afsc.noaa.gov/Publications/AFSC-TM/NOAA-TM-AFSC-200.pdf> SH11 .A365a no.200

BRAJE, T.J. and R.L. DeLONG. 2009. Ancient sea mammal exploitation on the south coast of San Miguel Island, pp. 43-52 In C.C. Damiani and D.K. Garcelon, editors, *Proceedings of the seventh California Islands Symposium, Oxnard, California, February 5 - 8, 2008*. Arcata, CA, Institute for Wildlife Studies.

BURDIN, A.M.. D.R. HENNEN, D.G. CALKINS, V.N. BURKANOV, V.S. NIKULIN, and, T. Yu. LISITSINA. 2009. Can we see a cohort effect on survival of Steller sea lions (*Eumetopias jubatus*) at Kozlova Cape rookery (eastern Kamchatka, Russia)? *Marine Mammal Science* 25(4): 888-901.

CAMERON, M.F., B. FADELY, K.E.W. SHELDEN, M.A. SIMPKINS, and L. HIRUKI-RARING. 2009. Marine mammals of the Alaska region, pp. 267-281 In: *Our living oceans: report on the status of U.S. living marine resources*, 6th ed. Seattle, WA: U.S. Department of Commerce. (NOAA Technical Memorandum NMFS-F/SPO-80) URL:<http://spo.nwr.noaa.gov/olo6thedition/32--Unit%2021.pdf>

CARRETTA, J. V., K. A. FORNEY, M. S. LOWRY, J. BARLOW, J. BAKER, D. JOHNSTON, B. HANSON, M. M. MUTO, D. LYNCH, and L. CARSWELL. 2009. *U.S. Pacific marine mammal stock assessments: 2008*. La Jolla, CA: U.S. Department of Commerce. (NOAA Technical Memorandum NMFS-SWFSC-434) 323 p.
URL:<http://www.nmfs.noaa.gov/pr/pdfs/sars/po2008.pdf>

CLAPHAM, P. and Y. IVASHCHENKO. 2009. A whale of a deception. *Marine Fisheries Review* 71(1): 44-52. URL:<http://spo.nmfs.noaa.gov/mfr711/mfr7114.pdf>

CLAPHAM, P., Y. MIKHALEV, W. FRANKLIN, D. PATON, C. S. BAKER, Y. IVASHCHENKO, and R. L. BROWNELL Jr. 2009. Catches of humpback whales, *Megaptera novaeangliae*, by the Soviet Union and other nations in the Southern Ocean, 1947-1973. *Marine Fisheries Review* 71(1): 39-43. URL:<http://spo.nmfs.noaa.gov/mfr711/mfr7113.pdf>

CONN, P. B., G. C. WHITE, and J. L. LAAKE. 2009. Simulation performance of Bayesian

estimators of abundance employing age-at-harvest and mark-recovery data, pp. 965-986 *In:* D.L. Thomson, E.G. Cooch and M.J. Conroy, editors, *Modeling demographic processes in Marked Populations*. New York, Springer.

CRESSIE, N., C. A. CALDER, J. S. CLARK, J. M. VER HOEF, and C. K. WIKLE. 2009. Accounting for uncertainty in ecological analysis: the strengths and limitations of hierarchical statistical modeling. *Ecological Applications* 19(3): 553-570.

DAHLHEIM, M. E., P. A. WHITE, and J. M. WAITE. 2009. Cetaceans of southeast Alaska: distribution and seasonal occurrence. *Journal of Biogeography* 36(3): 410-426.

DELONG, R.L., A.J. ORR, R.S. JENKINSON, and E.T. LYONS. 2009. Treatment of northern fur seal (*Callorhinus ursinus*) pups with ivermectin reduces hookworm-induced mortality. *Marine Mammal Science* 25(4): 944-948.

FEWSTER, R. M., S. T. BUCKLAND, K. P. BURNHAM, D. L. BORCHERS, P. E. JUPP, J. L. LAAKE, and L. THOMAS. 2009. Estimating the encounter rate variance in distance sampling. *Biometrics* 65(1): 225-236.

FOWLER, C.W. 2009. *Systemic management: sustainable human interactions with ecosystems and the biosphere*. Oxford: Oxford University Press. 295 p.

FOWLER, C.W. and M. A. ETNIER. 2009. Sustainability, pp. 1131-1134 *In:* W.F. Perrin, J.G.M. Thewissen and B. Wursig, editors, *Encyclopedia of marine mammals*. 2nd ed. San Diego, CA, Academic Press.

FOWLER, C.W. and L. HOBBS. 2009. *Are we asking the right questions in science and management?* Seattle, WA: U.S. Department of Commerce. (NOAA Technical Memorandum NMFS-AFSC-202) 59p.

URL:<http://www.afsc.noaa.gov/Publications/AFSC-TM/NOAA-TM-AFSC-202.pdf>

FOWLER, C.W., T. E. JEWELL, and M. V. LEE. 2009. *Harvesting young-of-the-year from large mammal populations: an application of systemic management*. Seattle, WA: U.S. Department of Commerce. (NOAA Technical Memorandum NMFS-AFSC-192) 65 p.

URL:<http://www.afsc.noaa.gov/Publications/AFSC-TM/NOAA-TM-AFSC-192.pdf>

GOLDSTEIN, T., T.S. ZABKA, R.L. DELONG, E.A. WHEELER, G. YLITALO, S. BARGU, M. SILVER, T. LEIGHFIELD, F. VAN DOLAH, G. LANGLOIS, I. SIDOR, J.L. DUNN, and F.M.D. GULLAND. 2009. The role of domoic acid in abortion and premature parturition of California sea lions (*Zalophus californianus*) on San Miguel Island, California. *Journal of Wildlife Diseases* 45(1): 91-108.

HASTINGS, K. K., T. S. GELATT, and J. C. KING. 2009. Postbranding survival of Steller sea lion pups at Lowrie Island in Southeast Alaska. *Journal of Wildlife Management* 73(7): 1040-1051.

HERMAN, D.P., G.M. YLITALO, J. ROBBINS , J.M. STRALEY, C.M. GABRIELE, P.J. CLAPHAM, R. BOYER, K.L. TILBURY, R.W. PEARCE, and M.M. KRAHN. 2009. Age determination of humpback whales *Megaptera novaeangliae* rough blubber fatty acid compositions of biopsy samples. *Marine Ecology Progress Series* 392: 277-293.

HOFFMAN, J. I., K. K. DASMAHAPATRA, W. AMOS, C. D. PHILLIPS, T. S. GELATT, and J. W. BICKHAM. 2009. Contrasting patterns of genetic diversity at three different genetic markers in a marine mammal metapopulation. *Molecular Ecology* 18:2961-2978.

JEFFERSON, T. A., D. FERTL, J. BOLANOS-JIMENEZ, and A. N. ZERBINI. 2009. Distribution of common dolphins (*Delphinus* Spp.) in the western Atlantic Ocean: a critical re-examination. *Marine Biology* 156(6): 1109-1124.

KARIYA, T., M. IGARASHI, K. WADA, V. N. BURKANOV, S. KOYAMA, H. HOSHINO, and T. Oshida. 2009. Lack of sequence variation of Y chromosome-linked loci in Steller's sea lions (*Eumetopias jubatus*) from Iony Island and the Kuril Islands. *Mammal Study* 34(1): 33-36.

KUHN, C. E., D.L E. CROCKER, Y. TREMBLAY, and D. P. COSTA. 2009. Time to eat: measurements of feeding behaviour in a large marine predator, the northern elephant seal *Mirounga angustirostris*. *Journal of Animal Ecology* 78(3): 513-523.

KUHN, C.E., D.S. JOHNSON, R.R. REAM, and T.S. GELATT. 2009. Advances in the tracking of marine species: using GPS locations to evaluate satellite track data and a continuous-time movement model. *Marine Ecology Progress Series* 393: 97-109.

LAAKE, J., A. PUNT, R. HOBBS, M. FERGUSON, D. RUGH, and J. BREIWICK. 2009. *Re-analysis of gray whale southbound migration surveys 1967-2006*. Seattle, WA: U.S. Department of Commerce. (NOAA Technical Memorandum NMFS-AFSC-203) 55p. URL: <http://www.afsc.noaa.gov/Publications/AFSC-TM/NOAA-TM-AFSC-203.pdf>

LANDER, M. E., T. R. LOUGHIN, M. G. LOGSDON, G. R. VanBLARICOM, B. S. FADELY, and L. W. FRITZ. 2009. Regional differences in the spatial and temporal heterogeneity of oceanographic habitat used by Steller sea lions. *Ecological Applications* 19(6): 1645-1659.

LEA, M. A. D. JOHNSON, R. REAM, J. STERLING, S. MELIN, and T. GELATT. 2009. Extreme weather events influence dispersal of naive northern fur seals. *Biology Letters* 5(2): 252-257.

MITCHELL, K. T., J. LAAKE, P.D. McLOUGHLIN, H. D. CLUFF, and F. MESSIER. 2009. Demography and population viability of polar bears in the Gulf of Boothia, Nunavut. *Marine Mammal Science* 25(4):778-796.

MIZROCH, S. A., D. W. RICE, D. ZWIEFELHOFER, J. WAITE, and W. L. PERRYMAN .2009. Distribution and movements of fin whales in the North Pacific Ocean. *Mammal Review* 39(3): 193-227.

NORBERG, S. E., V. N. BURKANOV, and R. D. ANDREWS. 2009. Serum chemistry values of free-ranging, lactating northern fur seals (*Callorhinus ursinus*). *Journal of Wildlife Diseases* 45(3): 843-848.

NOREN, D. P., L. D. REA, and T. R. LOUGHIN. 2009. A model to predict fasting capacities and utilization of body energy stores in weaned Steller sea lions (*Eumetopias jubatus*) during periods of reduced prey availability. *Canadian Journal of Zoology* 87(10): 852-864.

ORR, A.J., S.D. NEWSON, and R.L. DeLONG. 2009. Variation in stable carbon and nitrogen isotope values from multiple tissues of California sea lions (*Zalophus californianus*), pp. 121-129 In: C.C. Damiani and D.K. Garcelon, editors, *Proceedings of the Seventh California Islands Symposium, Oxnard, California, February 5 - 8, 2008*. Arcata, CA, Institute for Wildlife Studies.

PARSONS, K. M., K. C. BALCOMB III, J. K. B. FORD, and J. W. DURBAN. 2009. The social dynamics of southern resident killer whales and conservation implications for this endangered population. *Animal Behaviour* 77(4): 963-971.

PERMYAKOV, P. A. and V. N. BURKANOV. 2009. Interactions between killer whales (*Orcinus orca*) and Steller sea lions (*Eumetopias jubatus*) in the vicinity of Brat Chirpoev Island, Kuril Islands. *Russian Journal of Marine Biology* 35(3): 255-258.

PHILLIPS, C. D., J. W. BICKHAM, J. C. PATTON, and T. S. GELATT. 2009. Systematics of Steller sea lions (*Eumetopias jubatus*): subspecies recognition based on concordance of genetics and morphometrics. *Occasional Papers, Museum of Texas Tech University* 283:1-15. URL:<http://www.nsrl.ttu.edu/publications/opapers/ops/OP283.pdf>

PHILLIPS, C. D., R. G. TRUJILLO, T. S. GELATT, M. J. SMOLEN, C. W. MATSON, R. L. HONEYCUTT, J. C. PATTON, and J. W. BICKHAM. 2009. Assessing substitution patterns, rates, and homoplasy at HVRI of Steller sea lions, *Eumetopias jubatus*. *Molecular Ecology* 18(16): 3379-3393.

PINTO de SÁ ALVES, L. C., A. ANDRIOLO, A. N. ZERBINI, J. L. ALTMAYER PIZZORNO, and P. J. CLAPHAM. 2009. Record of feeding by humpback whales (*Megaptera novaeangliae*) in tropical waters off Brazil. *Marine Mammal Science* 25(2): 416-419.

REA, L. D., M. BERMAN-KOWALEWSKI, D. A. S. ROSEN, and A. W. TRITES. 2009. Seasonal differences in biochemical adaptation to fasting in juvenile and subadult steller sea lions (*Eumetopias jubatus*). *Physiological and Biochemical Zoology* 82(3): 236-247.

RICK, T. C., R. L. DeLONG, J. M. ERLANDSON, T. J. BRAJE, T. L. JONES, D. J. KENNEDY, T. A. WAKE, and P. L. WALKER. 2009. A trans-Holocene archaeological record of Guadalupe fur seals (*Arctocephalus townsendi*) on the California coast. *Marine Mammal Science* 25(2): 487-502.

SCHMIDT, J. H., M. S. LINDBERG, D. S. JOHNSON, B. CONANT, and J. KING. 2009. Evidence of Alaskan trumpeter swan population growth using Bayesian hierarchical models. *Journal of Wildlife Management* 73(5): 720-727.

SCHMIDT, J. H., M. S. LINDBERG, D. S. JOHNSON, and J. A. SCHMUTZ. 2009. Environmental and human influences on trumpeter swan habitat occupancy in Alaska. *Condor* 111(2): 266-275.

TAYLOR, M.K., J. LAAKE, P.D. McLOUGHLIN, H.D. CLUFF, and F. MESSIER. 2009. Demography and population viability of polar bears in the Gulf of Boothia, Nunavut . *Marine Mammal Science* 25(4): 778-796.

TOLLIT, D. J., A. D. SCHULZE, A. W. TRITES, P. F. OLESIUK, S. J. CROCKFORD, T. S. GELATT, R. R. REAM, and K. M. MILLER. 2009. Development and application of DNA techniques for validating and improving pinniped diet estimates. *Ecological Applications* 19(4): 889-905.

VASSILAKOS, D., A. NATOLI, M. DAHLHEIM, and A. R. HOELZEL. 2009. Balancing and directional selection at Exon-2 of the MHC DQB1 Locus among populations of odontocete cetaceans. *Molecular Biology and Evolution* 26(3): 681-689.

WEST, K.L., W.A. WALKER, R.W. BAIRD, W. WHITE, G. LEVINE, E. BROWN , and D. SCHOFIELD. 2009. Diet of pygmy sperm whales (*Kogia breviceps*) in the Hawaiian Archipelago. *Marine Mammal Science* 25(4): 931-943.

WADE, P. R., J. M. VER HOEF, and D. P. DEMASTER .2009. Mammal-eating killer whales and their prey-trend data for pinnipeds and sea otters in the north Pacific Ocean do not support the

sequential megafaunal collapse hypothesis. *Marine Mammal Science* 25(3): 737-747.

YOCHEM, P. K., B. S. STEWART, T. S. GELATT and D. B. SINIFF. 2009. Health assessment of Weddell seals *Leptonychotes weddelli*, in McMurdo Sound, Antarctica, pp. 123-138 In: K. R. Kerry and M. J. Riddle, editors, *Health of Antarctic wildlife: a challenge for science and policy*. Springer-Verlag, Berlin.

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CAMERON, M. and P. BOVENG. 2009. Habitat use and seasonal movements of adult and sub-adult bearded seals. *AFSC Quarterly Report* October November December: 1-4.

URL:<http://www.afsc.noaa.gov/Quarterly/ond2009/ond09.htm>

MOCKLIN, J.A. 2009. *Evidence of bowhead whale feeding behavior from aerial photography*. Seattle, WA: U.S. Department of Commerce. (AFSC Processed Report 2009-06) 118p. Alaska Fish. Sci. Cent., NOAA, Natl. Mar. Fish. Serv., 7600 Sand Point Way NE, Seattle WA 98115.

URL:<http://www.afsc.noaa.gov/Publications/ProcRpt/PR2009-06.pdf SH11 .A36 no.2009-06>

RUGH, D. and J. MOCKLIN. 2009. Aerial surveys to study bowhead whale feeding ecology. *AFSC Quarterly Report* October November December: 18-19.

URL:<http://www.afsc.noaa.gov/Quarterly/ond2009/ond09.htm>

YANO, K. M., J. Y. TINGG, and C. W. FOWLER. 2009. *Northern fur seal rookery photo archive: aerial and ground-level photos, Pribilof Islands, Alaska, 1895-2006*. Seattle, WA: U.S. Department of Commerce. (AFSC Processed Report 2009-03) 62 p. Alaska Fish. Sci. Cent., NOAA, Natl. Mar. Fish. Serv., 7600 Sand Point Way NE, Seattle WA 98115.

URL:<http://www.afsc.noaa.gov/Publications/ProcRpt/PR2009-03.pdf>